

**AMP**AMP INCORPORATED  
Harrisburg, Pa. 17105AMP ★ INSERTION/EXTRACTION  
TOOLS 91066

Instruction Sheet

**IS 7491**

RELEASED

9 • 10 • 85

REDUCED FOR PACKAGING

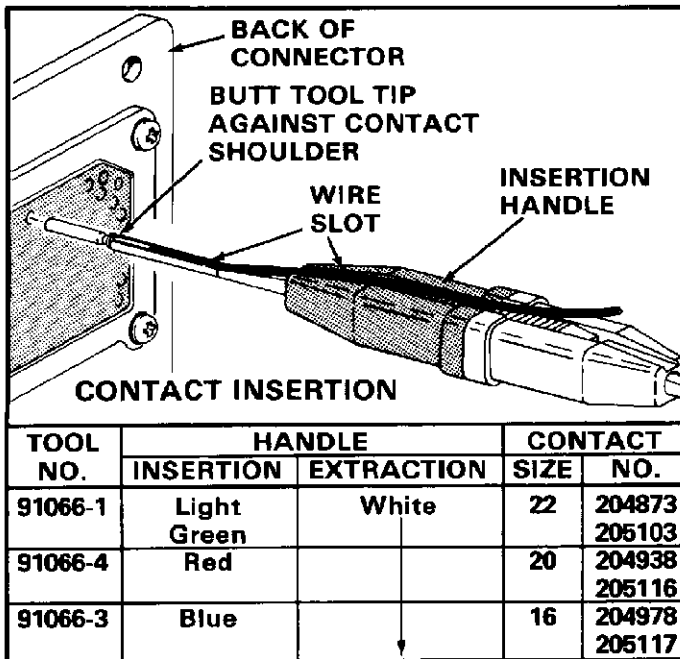


Fig. 1

**1. INTRODUCTION**

The AMP Insertion/Extraction Tools listed in Figure 1 are designed for contacts that are used in AMP RM and RME ARINC Connectors. Read these instructions thoroughly before starting.

**NOTE**

All dimensions presented on this instruction sheet are in inches, unless otherwise stated.

**2. DESCRIPTION**

Each tool handle has two color-coded halves. The white half contains the extraction tip and the other half contains the insertion tip. The color of the insertion tip half indicates the applicable contact size. See chart in Figure 1.

The tool number and contact size are stamped opposite the wire slot on the white half of the tool handle. The AMP marking is molded opposite the wire slot on the insertion tip half of the tool handle. See Figure 3.

**3. INSERTION/EXTRACTION PROCEDURES****CAUTION**

Too much force on the tool during insertion and extraction procedures could cause damage to the contact.

**A. Insertion**

1. Place the wire over the wire slot of the insertion tip and hold it in this position with your thumb.

2. While applying light pressure on the wire, slide your thumb over the wire and toward the tip of the tool. The tool tip will spread, allowing the wire to enter the tip.
3. Slide the tool tip over the wire barrel of the contact until it butts against the shoulder of the contact as shown in Figure 1.

**WARNING**

It is important that you hold the tool handle between the thumb and finger tips to prevent possibility of injury. Do NOT hold tool with unused tip (end) toward or against palm of your hand.

4. Align the contact with the cavity and push contact straight into the connector until it bottoms.
5. Remove the tool, and then pull back lightly on the wire to make certain the contact is locked in the cavity.

**B. Extraction**

1. Place the wire over the wire slot of the extraction tip and hold it in this position with your thumb.
2. While applying light pressure on the wire, slide your thumb over the wire and toward the tip of the tool. The tool tip will spread, allowing the wire to enter the tip as shown in Figure 2.

**WARNING**

It is important that you hold the tool handle

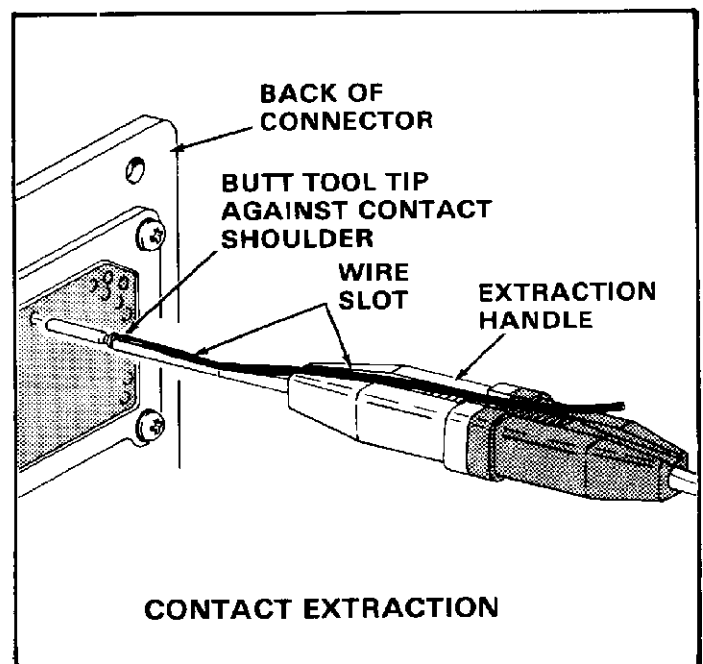


Fig. 2

Copyright 1977, 1978, 1985 by AMP Incorporated, Harrisburg, PA. All International Rights Reserved. AMP Incorporated products covered by U.S. and Foreign patents and/or patents pending.

between the thumb and finger tips to prevent possibility of injury. Do NOT hold tool with unused tip (end) toward or against palm of your hand.

3. Insert the tool tip straight into the cavity until it bottoms.
4. Hold the wire securely against the tool handle serrations, and pull back lightly to extract the contact. If the contact does not come out easily, reseat the tool tip in the cavity (Step 3) and repeat Step 4.

**4. TOOL CERTIFICATION**

The information in Figure 3 has been included to

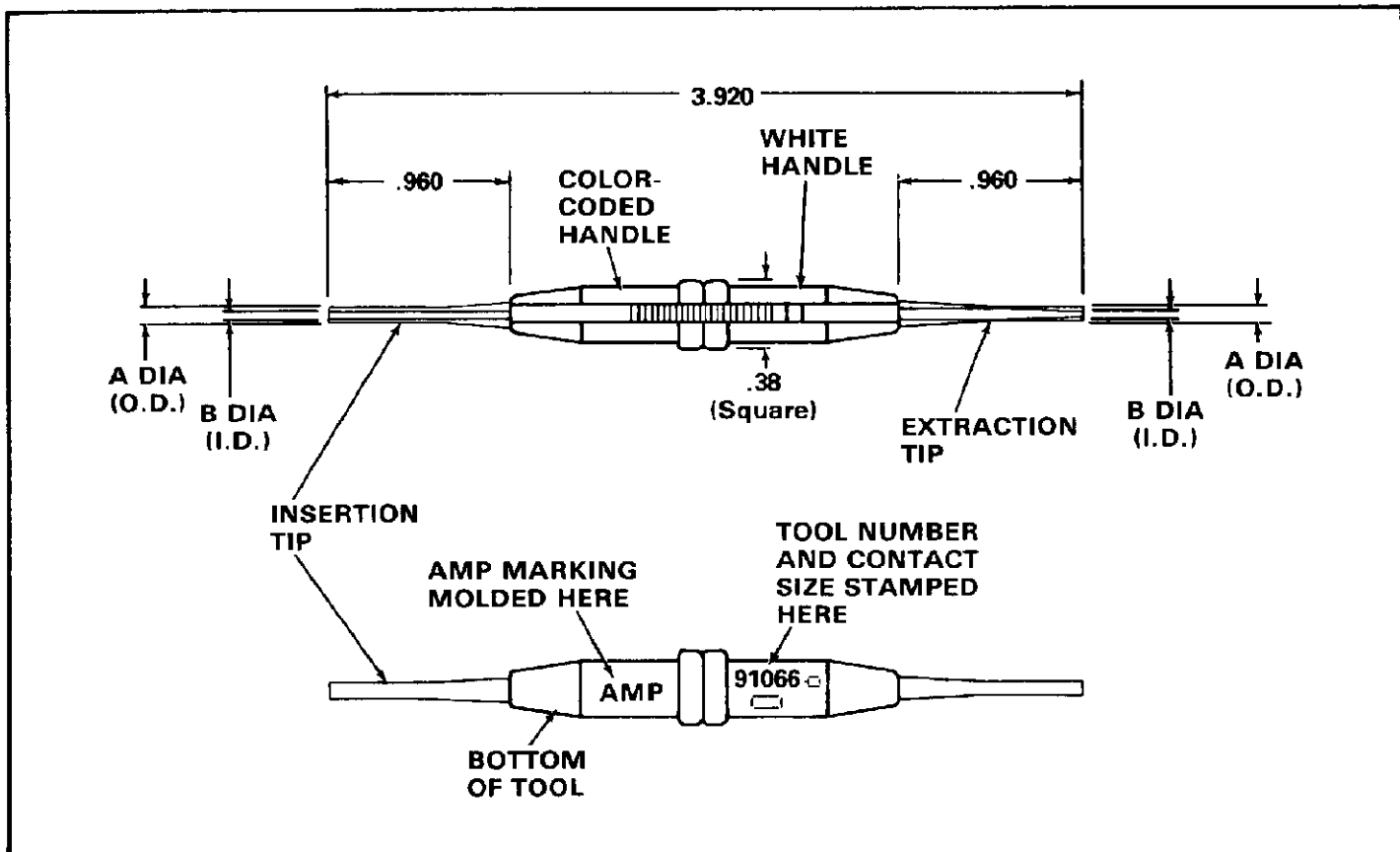
**AMP INSERTION/EXTRACTION TOOLS 91066**

certify the tools listed in Column 1. We recommend that you inspect the tool immediately upon its arrival in your factory, and at regularly scheduled inspections to assure that the tool has not been damaged.

The dimensions shown in Figure 3 include the maximum tolerances.

Additional tools can be purchased from:

AMP Incorporated  
 P.O. Box 3608  
 Harrisburg, Pennsylvania 17105-3608



TOOL NUMBER	DIM.		COLOR-CODED HANDLE (Insertion End)	CONTACT SIZE	TOOL MATERIALS	ENGINEERING APPROVAL	DATE APPROVED
	A	B					
91066-1	.065	.054	Light Green	22	Plastic and Steel (Nickel Plated)	Ben Luci	9 · 10 · 85
91066-4	.085	.073	Red	20			
91066-3	.134	.114	Blue	16			

Fig. 3