tyco / *Electronics*

AMP

"SUPER CHAMP"* Service
Hand Tool 696202–1

Instruction Sheet
408–8620
19 JUL 02   Rev A

PROPER USE GUIDELINES

Cumulative Trauma Disorders can result from the prolonged use of manually powered hand tools. Hand tools are intended for occasional use and low volume applications.
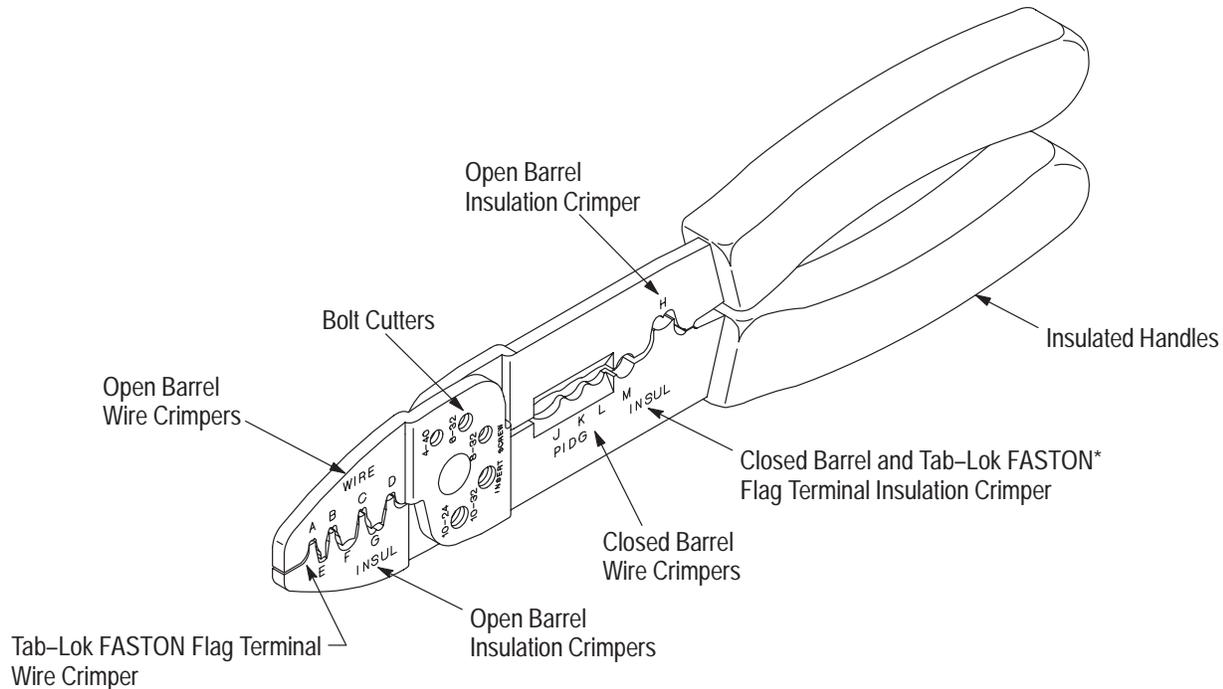

Figure 1

1. INTRODUCTION

"SUPER CHAMP" Service Hand Tool 696202–1 will crimp various open and closed barrel terminals, contacts, and splices with or without insulation support, and Tab–Lok FASTON flag terminals. The tool will also cut bolts of various common U.S. thread configurations.

NOTE *Dimensions in this instruction sheet are in millimeters [with inches in brackets]. Figures are not drawn to scale.*

Reasons for reissue are provided in Section 4, REVISION SUMMARY.

2. CRIMPING PROCEDURE

Select an appropriate terminal, contact, or splice for the tool. Strip the wire to the proper length (determine strip length by adding 0.794 [$^1/_{32}$] to the length of the wire barrel). Refer to Figure 2.

Open tool handles slightly, and proceed with the following.

2.1. Crimping the Wire Barrel

1. Center the wire barrel in the appropriate wire barrel crimp section. Refer to Figure 2.

   Open Barrel (Crimp Sections A, B, C, D)
   Make sure that the wire barrel opening faces the letter marking on the tool.

   Closed Barrel (Crimp Sections J, K, L)
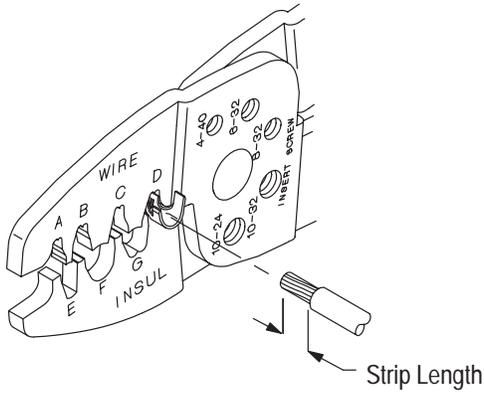   The wire barrel insulation color must match the crimp section color code.

   Flag Terminal (Crimp Section A)
   Make sure that the terminal is angled approximately 45 degrees with locking tab resting on bottom jaw.

2. Squeeze tool handles together just enough to hold wire barrel in place.

3. Insert the stripped wire into wire barrel.

4. Holding the wire in place, squeeze tool handles together to complete the crimp.

2.2. Crimping the Insulation Barrel

1. Center insulation barrel in the appropriate insulation barrel crimp section. Refer to Figure 2.

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For latest revision call the AMP FAX* number.

TOOLING ASSISTANCE CENTER 1–800–722–1111
AMP FAX/PRODUCT INFO 1–800–522–6752
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Stripping Wire

Wire Crimp (Wire Size AWG):
For Reference Only
A (20) – **B** (18) – **C** (16) – **D** (14)

Strip Length

Crimping Open Barrel Terminals

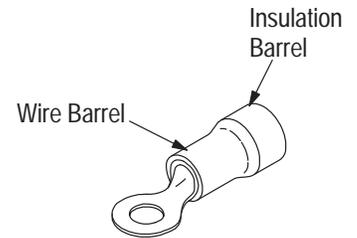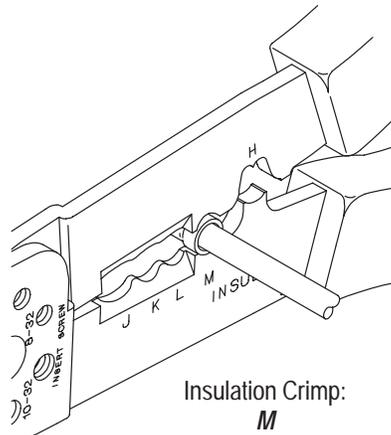Insulation Crimp:
E – F – G – H

Insulation Barrel

Wire Barrel
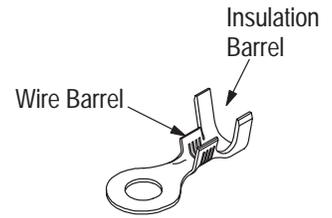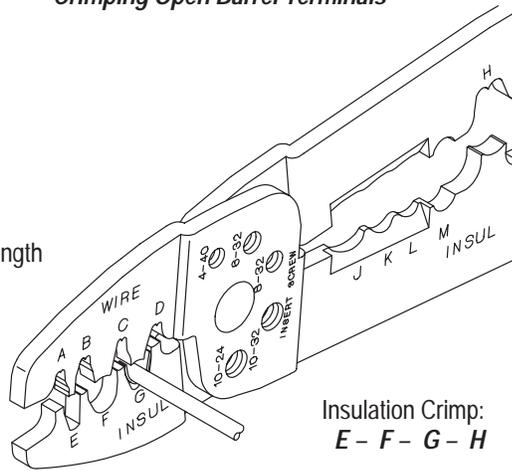
Properly Crimped Open Barrel Terminal
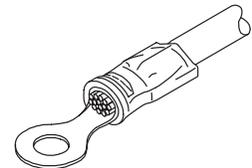

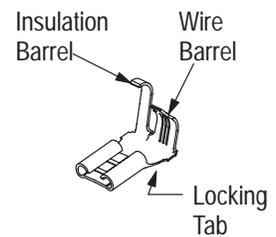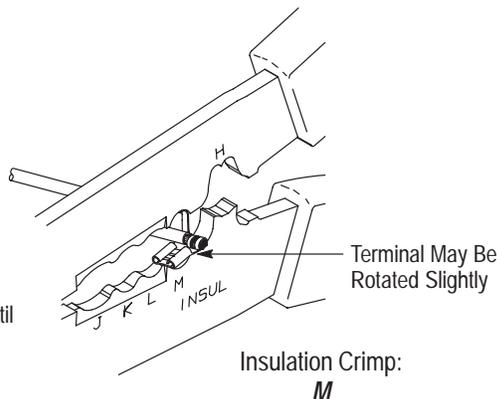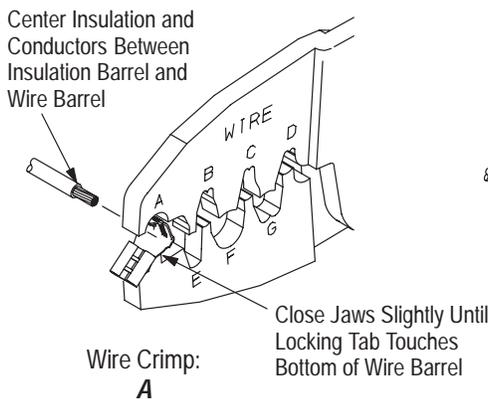
Crimping Closed Barrel Terminals
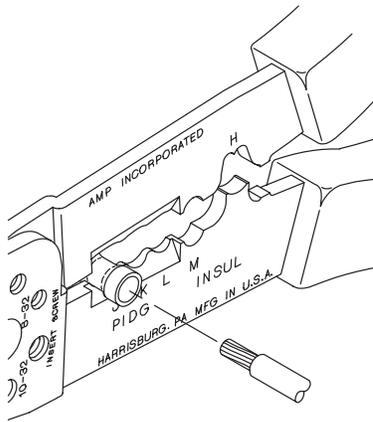
Wire Crimp Color Code:
J (Yellow) – **K** (Red or Blue) – **L** (Uninsulated)

Insulation Crimp:
M

Insulation Barrel

Wire Barrel

Properly Crimped Closed Barrel Terminal

Crimping Flag Terminals

Center Insulation and Conductors Between Insulation Barrel and Wire Barrel

Wire Crimp:
A

Close Jaws Slightly Until Locking Tab Touches Bottom of Wire Barrel

Terminal May Be Rotated Slightly

Insulation Crimp:
M

Insulation Barrel   Wire Barrel

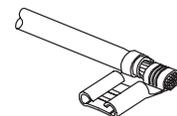Locking Tab

Properly Crimped Flag Terminal

Figure 2

Open Barrel (Crimp Sections E, F, G, H)
Make sure that the wire barrel opening faces the letter marking on the tool.

Closed Barrel (Crimp Section M)
The wire barrel insulation color must match the crimp section color code.

Flag Terminal (Crimp Section M)
Ensure even formation of insulation barrel—it might be necessary to rotate terminal slightly.

2. Holding the insulation barrel in place, squeeze tool handles to complete the crimp.

3. BOLT CUTTING PROCEDURE (Figure 3)

Thread bolt into side marked "INSERT SCREW."
To cut bolt to required dimension, allow 3.175 [$1/8$] for tool thickness. Close tool handles completely.
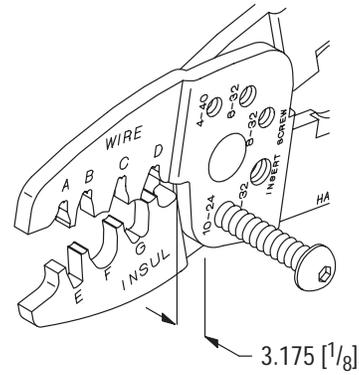
Bolt Cutting

3.175 [$1/8$]

Figure 3

4. REVISION SUMMARY

Revisions to this instruction sheet per EC 0990–1068–02 include:

- Added crimping procedure for Tab–Lok FASTON flag terminals