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. A wide selection of powered application equipment for extended-use, production operations is available.

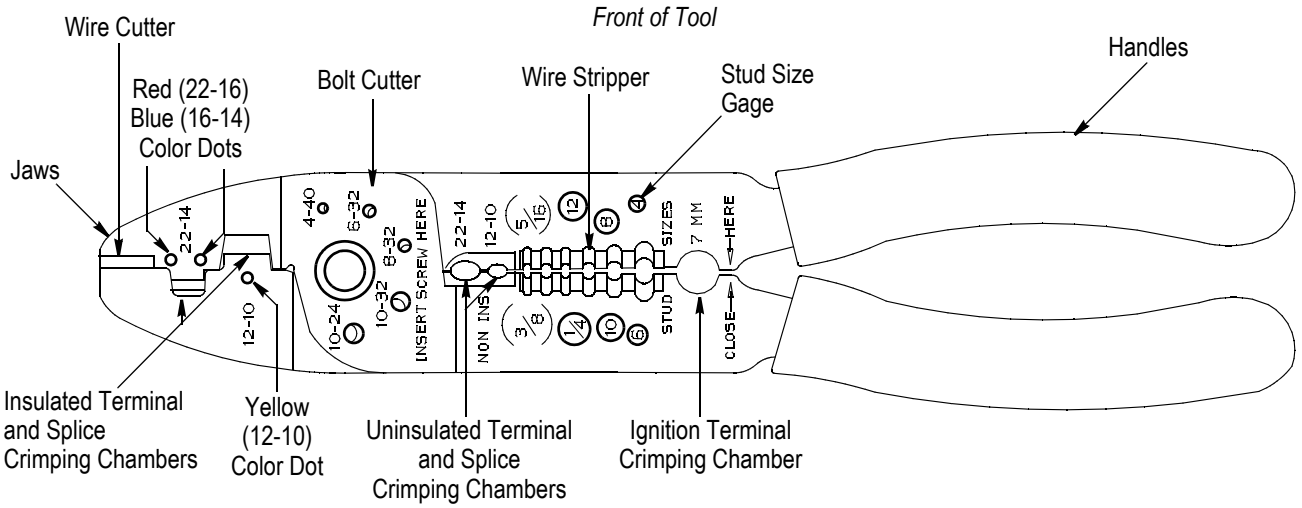


Figure 1

1. INTRODUCTION

SUPER CHAMP IV Hand Tool 696125-1 is used to cut and strip wire, crimp sizes 22-16, 16-14, and 12-10 terminals and splices to wires, and crimp 7-mm ignition terminals. The tool is also capable of cutting bolts and gaging various stud sizes.

NOTE

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

Reasons for reissue of this instruction sheet are provided in Section 6, REVISION SUMMARY.

2. DESCRIPTION

The hand tool consists of two jaws and handles. The jaws feature crimping chambers, a wire cutter, bolt cutter, stud size gage, wire stripper, and strip length gage. The crimping chambers are marked with the wire size range; and in addition, the crimping chambers for insulated terminals and splices are color-coded. The crimping chamber for ignition terminals is marked “7 MM”. See Figure 1.

The stud size gage can be used to assist in selecting the correct terminal stud size.

3. OPERATION

3.1. Cutting the Wire

Place the wire between the cutting surfaces of the wire cutter, and close the handles.

3.2. Stripping the Wire

1. Using the strip length gage (on back of hand tool), determine the strip length of the wire.

2. Place the wire in the applicable position of the wire stripper, then close the handles, rotate the tool, and pull the wire from the tool.

3.3. Crimping Terminals

NOTE

For crimp inspection requirements, refer to the applicable Application Specification (114-series).

A. Insulated Terminals

1. Insert the terminal into the RED (22-16) or BLUE (16-14) dot color-coded crimping chamber so that the tongue end of the insulation barrel is 0.76 [.03] from the edge of the jaws, or insert the terminal into the YELLOW (12-10) dot color-coded crimping chamber so that the tongue end of the insulation barrel is 1.59 [.06] from the edge of the jaws. Refer to Figure 2.

For PLASTI-GRIP* ribbed terminals, align the jaws between the ribs.

2. Close the tool handles completely.

3. For terminals in the RED or BLUE dot color-coded crimping chamber, re-position the terminal so that the wire end of the wire barrel is 0.76 [.03] from the edge of the jaws.

For terminals in the YELLOW (12-10) dot color-coded crimping chamber, re-position the terminal so that the wire end of the wire barrel is 1.59 [.06] from the edge of the jaws.

4. Close the tool handles completely.

B. Uninsulated Terminals

1. Insert the terminal in the crimping chamber marked "NON INS". Center the wire barrel in the crimping chamber. Refer to Figure 2.

2. Close the tool handles completely.

C. Ignition Terminals

1. Insert the terminal in the crimping chamber marked “7 MM”. See Figure 1. Center the wire barrel in the crimping chamber.

2. Close the tool handles completely.

3.4. Crimping Splices

A. Insulated Splices

1. Insert the splice into the RED (22-16), BLUE (16-14), or YELLOW (12-10) dot color-coded crimping chamber so that the center of the insulation barrel is 3.18 [.13] from the edge of the jaws. Refer to Figure 2.

2. Close the tool handles completely.

3. For splices in the RED or BLUE dot color-coded crimping chamber, re-position the splice so that the wire end of the wire barrel is 0.76 [.03] from the edge of the jaws.

For splices in the YELLOW dot color-coded crimping chamber, re-position the splice so that wire end of the wire barrel is 1.59 [.06] from the edge of the jaws.

4. Close the tool handles completely.

B. Uninsulated Splices

1. Insert the splice in the crimping chamber marked "NON INS". Center the wire barrel in the crimping chamber. Refer to Figure 2.

2. Close the tool handles completely.

3.5. Cutting Bolts

1. Open the tool handles.

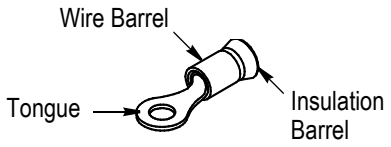
2. Thread the bolt into the appropriate-sized opening on the side of the tool marked, "INSERT SCREW HERE". See Figure 1.

NOTE

Allow 3.05 [.12] for tool thickness.

3. Close the tool handles until the bolt is cut.

Crimping Terminals



Crimping Splices

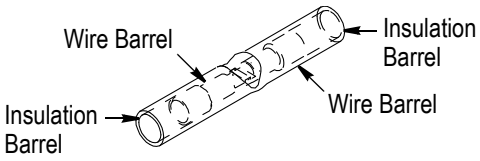


Figure 2

3.6. Using the Stud Size Gage

Lay the terminal stud hole over a stud size circle marking on the jaw of the hand tool. The circles represent the actual diameter of the stud. The correct stud size circle will be visible through the terminal stud hole.

4. MAINTENANCE AND INSPECTION

It is recommended that a maintenance and inspection program be performed periodically to ensure dependable and uniform terminations. Frequency of inspection depends on:

— type and size of the product crimped
— degree of operator skill
— presence of abnormal amounts of dust and dirt
— your own established standards

The hand tool is thoroughly inspected before packaging. Since there is a possibility of damage during shipment, the hand tool should be inspected immediately upon arrival at your facility.

5. REPLACEMENT AND REPAIR

This tool is not repairable. Order replacement tools through your representative, or call 1-800-526-5142, or send a facsimile of your purchase order to 717-986-7605, or write to:

CUSTOMER SERVICE (038-035)
TYCO ELECTRONICS CORPORATION
PO BOX 3608
HARRISBURG PA 17105-3608

6. REVISION SUMMARY

Revisions to this instruction sheet include:

- Updated instruction sheet to corporate requirements
- Modified Figure 1, and Paragraphs 3.3, 3.4, and 3.5
- Added Figure 2, and Paragraphs 3.4,C and 3.6

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

TE Connectivity:
696125-1