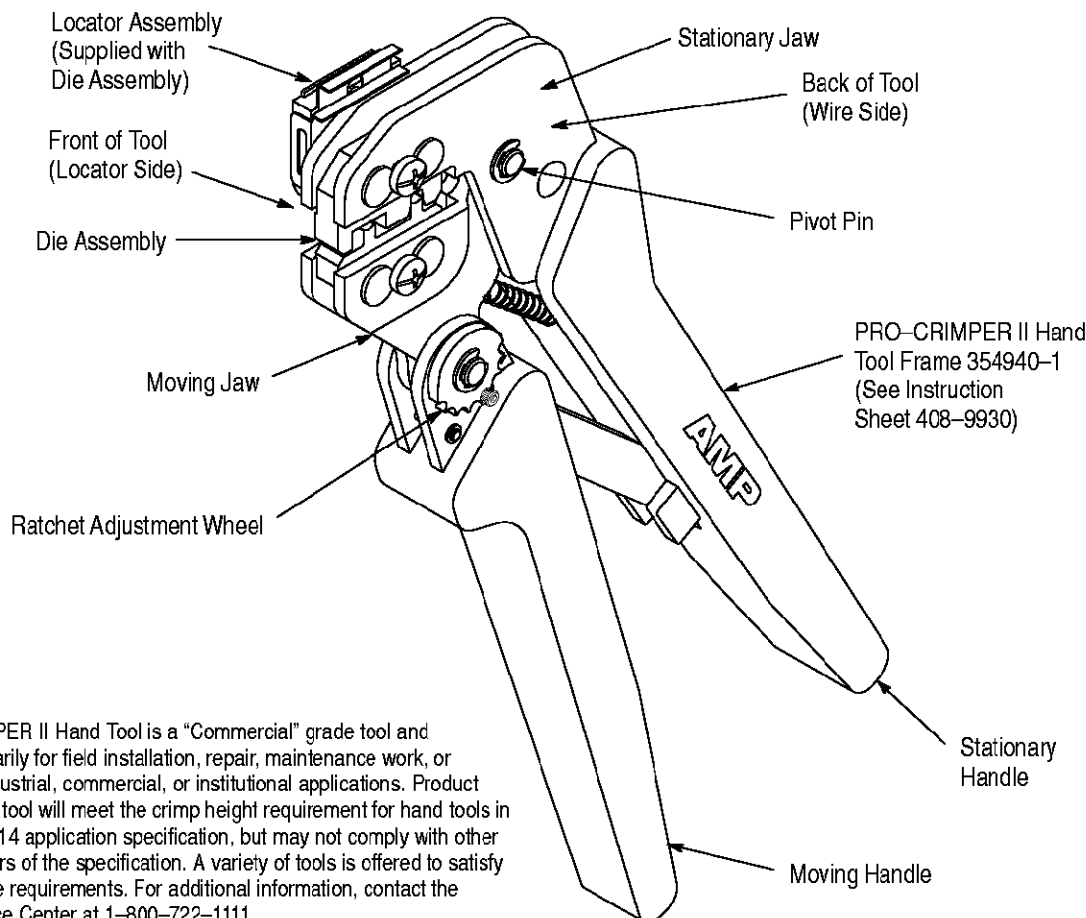


PROPER USE GUIDELINES

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.



The PRO-CRIMPER II Hand Tool is a "Commercial" grade tool and is designed primarily for field installation, repair, maintenance work, or prototyping in industrial, commercial, or institutional applications. Product crimped with this tool will meet the crimp height requirement for hand tools in the appropriate 114 application specification, but may not comply with other feature parameters of the specification. A variety of tools is offered to satisfy your performance requirements. For additional information, contact the Tooling Assistance Center at 1-800-722-1111.

DIE ASSEMBLY PART NUMBER	LOCATOR ASSY PART NUMBER†	CONTACT FAMILY‡	WIRE		
			SIZE (AWG)	INSUL DIA (mm [in.])	STRIP LENGTH (mm [in.])
58530-2	58516-1	Universal MATE-N-LOK®	12 ■	5.08 [.200] Max	6.35 to 7.05 [.250 to .281]
			10 ■		

† Supplied with die assembly, also available separately.

■ Anvil must be reversed when changing from one wire size to the other.

‡ Contact the Tooling Assistance Center at the number listed below for specific contact part numbers.

Figure 1

1. INTRODUCTION

PRO-CRIMPER II Hand Tool Assembly 58530-1 consists of Die Assembly 58530-2 and PRO-CRIMPER II Hand Tool Frame 354940-1. The die assembly consists of crimping dies and a locator assembly. Read these instructions thoroughly before crimping any contacts.

NOTE

Dimensions on this sheet are in millimeters [with inch equivalents provided in brackets]. Figures and illustrations are for identification only and are not drawn to scale.

Reasons for reissue of this document are provided in Section 11, REVISION SUMMARY.

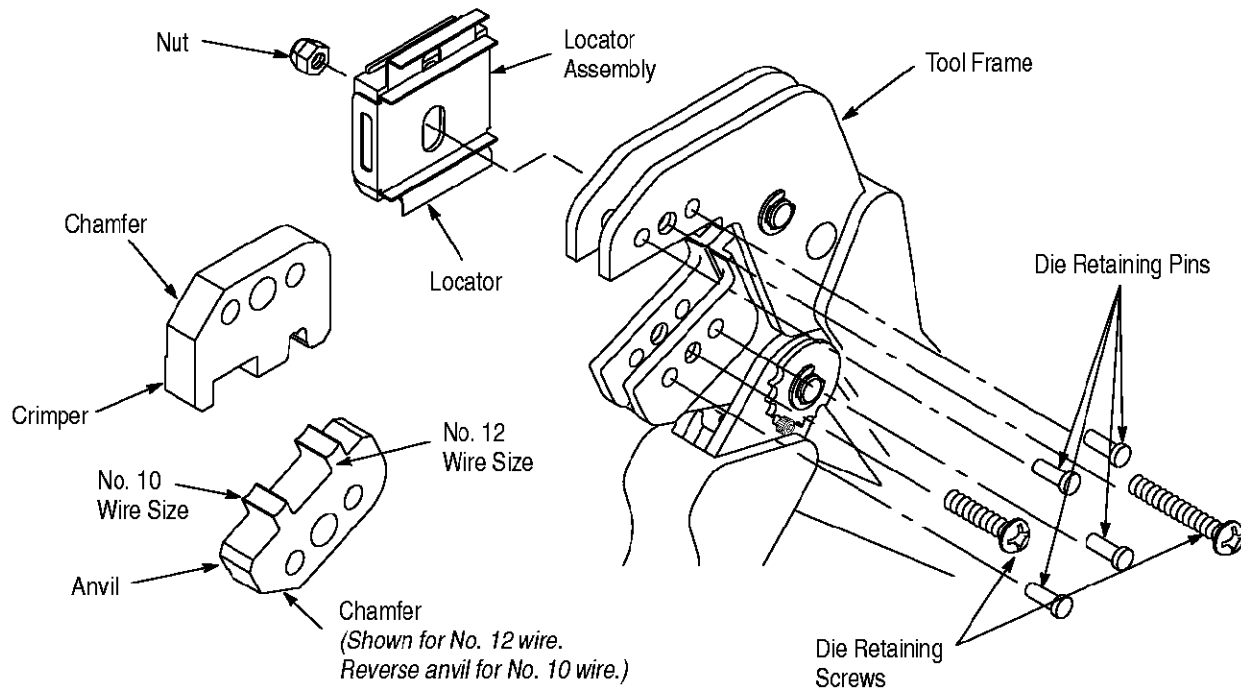


Figure 2

2. DESCRIPTION (Figures 1 and 2)

The tool features a tool frame with a stationary jaw and handle, a moving jaw, a moving handle, and an adjustable ratchet that ensures full contact crimping. The tool frame holds a die assembly with two crimping sections.

The die assembly features an anvil and a crimper. Attached to the outside of the frame is a locator assembly, which contains a locator, a spring retainer, and a contact support.

Die retaining pins and die retaining screws are used to position and secure the dies in the tool frame. A nut is used on the upper die retaining screw to hold the locator assembly in place.

3. INSTALLATION AND REMOVAL OF DIE SET AND LOCATOR ASSEMBLY (Figure 2)

1. Open the tool handles and remove the two die retaining screws from the tool jaws.
2. Place the anvil in the moving jaw. The rear nest is used to crimp the terminal — make sure that the anvil is positioned so that the correct wire size marking is located at the rear crimping area.

NOTE

The anvil die must be reversed to accommodate the use of either 12 or 10 AWG wire.

3. Insert the two die retaining pins.

4. Insert the short die retaining screw through the jaw and through the anvil die, and tighten the screw just enough to hold the die in place. Do **not** tighten the screw completely at this time.

5. Place the crimper die in the stationary jaw of the tool. Make sure that the chamfered end of the die faces outward.

6. Insert the two die retaining pins.

7. Insert the long die retaining screw through the jaw and through the crimper die, and tighten the screw just enough to hold the die in place. Do **not** tighten the screw completely at this time.

8. Carefully close the tool handles, making sure that the dies align properly. Continue closing the tool handles until the ratchet in the tool frame has engaged sufficiently to hold the dies in place, then tighten both die retaining screws.

9. Place the locator assembly over the end of the long screw, and position the locator assembly against the side of the tool jaw.

10. Place the nut onto the end of the long screw and tighten the nut enough to hold the locator assembly in place, while still allowing the locator to slide up and down.

11. To disassemble, close the tool handles until the ratchet releases, remove the nut, the locator assembly, the two die retaining screws, and the four die retaining pins, and slide the dies out of the tool jaws.

4. CONTACT SUPPORT ADJUSTMENT (Figure 3)

NOTE

The contact support is preset prior to shipment, but minor adjustment may be necessary.

1. Make a sample crimp and determine if the contact is straight, bending upward, or bending downward.
2. If adjustment is required, loosen the screw that holds the contact support onto the locator assembly.

NOTE

The ratchet has detents that create audible clicks as the tool handles are closed.

3. Place a contact with wire into the proper nest and close the tool handles until the ratchet reaches the sixth click, or until the contact support touches the contact.
4. Slightly loosen the nut that holds the locator assembly onto the tool frame.
5. Move the contact support as required to eliminate the bending of the contact.
6. Tighten the nut and close the handles until the ratchet releases.
7. Remove and inspect the contact.
8. Make another sample crimp. If the contact is straight, tighten the contact support screw. If the contact is still being bent during crimping, repeat the adjustment procedure.

5. CRIMPING PROCEDURE

NOTE

This tool is provided with a crimp adjustment feature. Initially, the crimp height should be verified as specified in Figure 4. Refer to Section 6, CRIMP HEIGHT INSPECTION, and Section 7, CRIMP HEIGHT ADJUSTMENT, to verify crimp height before using the tool to crimp desired contacts and wire sizes.

Refer to the table in Figure 1 and select wire of the specified size and insulation diameter. Strip the wire to the length indicated in Figure 1, taking care not to nick or cut wire strands. Select an applicable contact and identify the appropriate crimp section according to the wire size markings on the tool. Refer to Figure 3 and proceed as follows:

1. Hold the tool so that the back (wire side) is facing you. Squeeze tool handles together and allow them to open fully.
2. Holding the contact by the mating end, insert the contact — insulation barrel first — through the front of the tool and into the appropriate crimp section.
3. Position the contact so that the mating end of the contact is on the locator side of the tool, and so that the open “U” of the wire barrel faces the top of the tool. Place the contact up into the nest so that the movable locator drops into the slot in the contact. Refer to Figure 3. Butt the front end of the wire barrel against the movable locator.

CAUTION

Make sure that both sides of the wire barrel are started evenly into the crimping section. Do NOT attempt to crimp an improperly positioned contact.

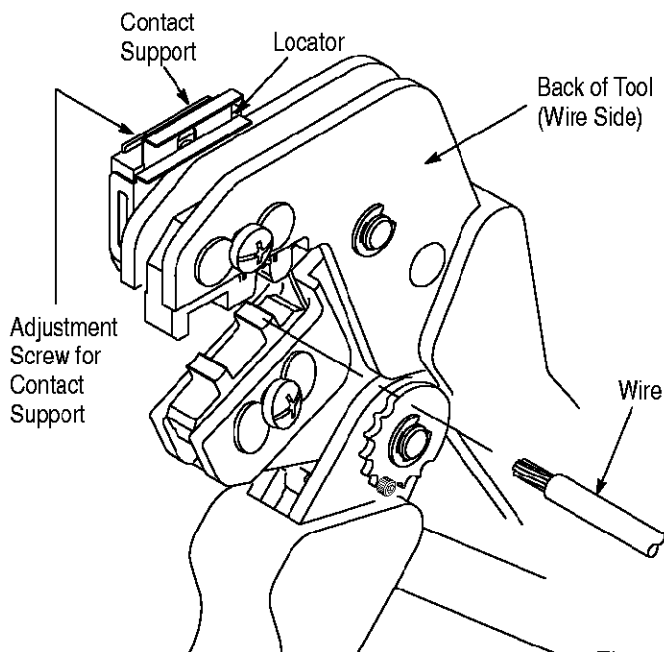
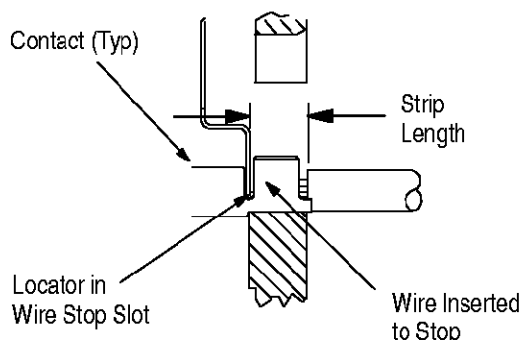


Figure 3

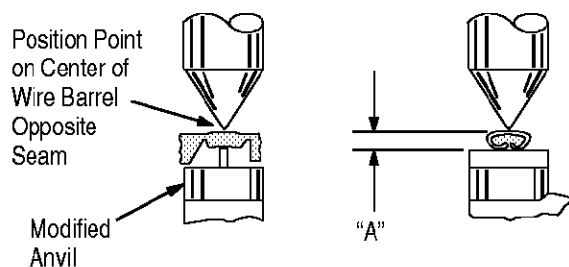


4. Hold the contact in position and squeeze the tool handles together until ratchet engages sufficiently to hold the contact in position.
5. Insert stripped wire into the contact until the wire butts against the wire stop, as shown in Figure 3.
6. Holding the wire in place, squeeze tool handles together until ratchet releases. Allow tool handles to open and remove crimped contact.

NOTE

The crimped contact may stick in the crimping area, but the contact can be easily removed by pushing downward on the top of the locator (see Figure 3).

7. Check the contact's crimp height as described in Section 6, CRIMP HEIGHT INSPECTION. If necessary, adjust the crimp height as described in Section 7, CRIMP HEIGHT ADJUSTMENT.



WIRE SIZE AWG (MAX)	CRIMP SECTION (WIRE SIZE MARKING)	CRIMP HEIGHT DIM. (A) AND TOLERANCE (±)
12	12	2.11 ± .05 [.083 ± .002]
10	10	2.44 ± .05 [.096 ± .002]

Figure 4

6. CRIMP HEIGHT INSPECTION

This inspection requires the use of a micrometer with a modified anvil. Tyco Electronics recommends the modified micrometer (Crimp Height Comparator RS-1019-5LP) which may be purchased from:

Shearer Industrial Supply Co.
717-767-7575

or

VALCO
610-691-3205

Proceed as follows:

1. Refer to Figure 4 and select a wire (maximum size) for each crimp section listed.

2. Refer to Section 5, CRIMPING PROCEDURE, and crimp the contact(s) accordingly.
3. Using a crimp height comparator, measure the wire barrel crimp height as shown in Figure 4. If the crimp height conforms to that shown in the table, the tool is considered dimensionally correct. If not, the tool must be adjusted. Refer to Section 7, CRIMP HEIGHT ADJUSTMENT.

7. CRIMP HEIGHT ADJUSTMENT (Figure 5)

1. Remove the lock screw from the ratchet adjustment wheel.
2. With a screwdriver, adjust the ratchet wheel from the locator side of the tool.
3. Observe the ratchet adjustment wheel. If a tighter crimp is required, rotate the adjustment wheel COUNTERCLOCKWISE to a higher-numbered setting. If a looser crimp is required, rotate the adjustment wheel CLOCKWISE to a lower-numbered setting.
4. Replace the lock screw.
5. Make a sample crimp and measure the crimp height. If the dimension is acceptable, replace and secure the lock screw. If the dimension is unacceptable, continue to adjust the ratchet, and again measure a sample crimp.

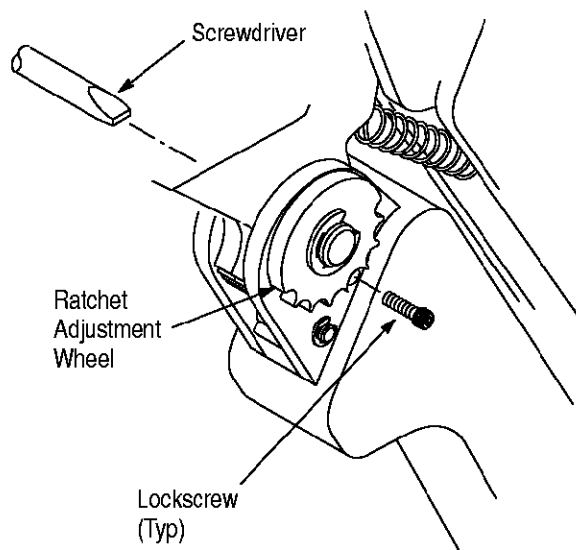


Figure 5

8. MAINTENANCE

Ensure that the tool and dies are clean by wiping them with a clean, soft cloth. Remove any debris with a clean, soft brush. Do not use objects that could damage the tool. When not in use, keep handles closed to prevent objects from becoming lodged in the crimping dies, and store in a clean, dry area.

9. VISUAL INSPECTION

The crimping dies should be inspected on a regular basis to ensure that they have not become worn or damaged. Inspect the crimp sections for flattened, chipped, worn, or broken areas. If damage or abnormal wear is evident, the tool must be replaced. See Section 10, REPLACEMENT AND REPAIR.

10. REPLACEMENT AND REPAIR

Customer-replaceable parts are shown in Figure 1. Available separately, PRO-CRIMPER II Repair Kit 679221-1 includes a replacement nut and a variety of pins, rings, screws, and springs. If the dies are

damaged or worn excessively, they must be replaced. Order the repair kit and replaceable parts through your Tyco Electronics representative, or call 1-800-526-5142, or send a facsimile of your purchase order to 1-717-986-7605, or write to:

CUSTOMER SERVICE (38-35)
TYCO ELECTRONICS CORPORATION
P.O. BOX 3608
HARRISBURG, PA 17105-3608

For tool repair service, please contact a representative at 1-800-526-5136.

11. REVISION SUMMARY

Per EC 0990-0343-03:

- Updated die artwork in Figures 1, 2, and 3
- Added statements regarding reversing anvil when changing from one wire size to another
- Updated ratchet adjustment wheel screw in Figures 1, 2, 3, and 5
- Updated document to corporate requirements

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