

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.

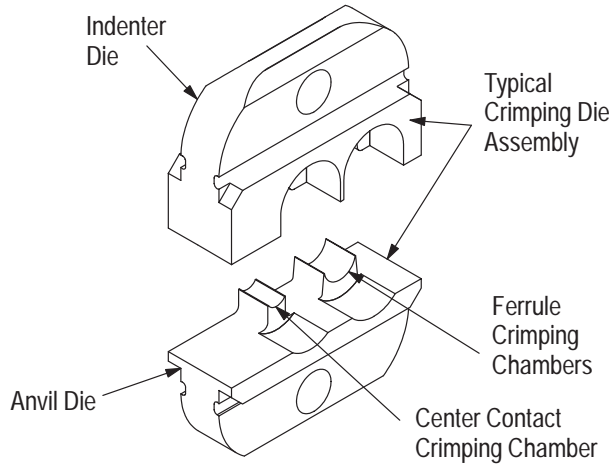


Figure 1

1. INTRODUCTION

SDE (Two-Piece) Crimping Die Assemblies are designed to crimp a variety of connectors when used in PRO-CRIMPER® II Frame Assembly 354940-1. Refer to Figure 5 for a list of connectors and their associated dies.

Catalog 1307191 provides a guide for cable-to-connector selection. For connectors not referenced in the catalog, contact Tyco Electronics Product Engineering for recommendations.

Refer to instruction sheet 408-9930 for information concerning PRO-CRIMPER II Hand Tool Frame 354940-1.

NOTE

Dimensions in this instruction sheet are in millimeters [with inches in brackets]. Figures are for reference only, and are not drawn to scale.

Reasons for reissue of this instruction sheet are provided in Section 8, REVISION SUMMARY.

2. DESCRIPTION

Each two-piece crimping die assembly consists of an indenter die and an anvil die, which when closed forms two or three crimping chambers. The larger crimping chambers crimp the ferrule of the connector onto the coaxial cable. The smaller crimping chamber crimps the center contact onto the center conductor of the coaxial cable. Each die is held in the PRO-CRIMPER II hand tool jaws by a single screw. See Figure 1.

3. DIE INSTALLATION (Figure 1)

1. Close the tool handles until the ratchet releases, then allow the tool handles to open fully.
2. Install anvil die in the movable jaw of the tool frame. Align the die with the retaining screw hole, then secure die with the die-retaining screw. Do NOT fully tighten.
3. Install indenter die in the stationary jaw of the tool frame. Slowly close the tool handles, allowing the dies to align themselves.

NOTE

Once the anvil has entered the indenter, place a copper bus bar (1.57 ± 0.05 [0.062 ± .002] diameter) into the center contact crimping chamber of the die assembly.

4. Close the tool handles completely.
5. Securely tighten both screws with the appropriate screwdriver.

4. CRIMPING PROCEDURE

Select the appropriate cable size and connector. The wire size and insulation diameter must be within the specified range for the connector.

NOTE

This tool is provided with a crimp height adjustment feature. Initially, the crimp height should be verified. Refer to Section 5, CRIMP HEIGHT ADJUSTMENT, to verify crimp height before using the tool.

For detailed information on cable strip lengths and proper assembly of the connector, refer to the instructions packaged with the connector. Make sure that the connector's ferrule has been placed onto the cable, and that the cable's braided shield is flared away from the cable. Then proceed as follows:

4.1. Crimping the Center Contact (Figure 2)

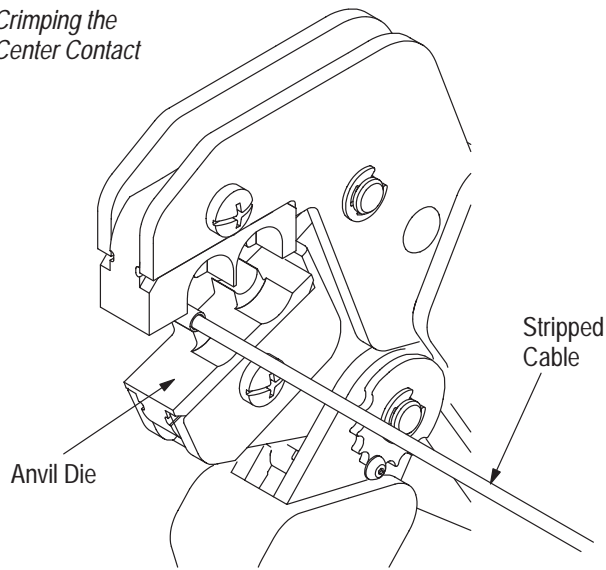
1. Close the tool handles until the dies are partially closed.
2. Assemble the center contact onto the cable center conductor and place the center contact in the smallest crimping chamber of the anvil die.

NOTE

Make sure the flange on the end of the center contact butts against the die.

3. Holding the cable in place, close the tool handles until the ratchet releases.
4. Allow the tool handles to open fully and remove the crimped center contact from the dies.

Crimping the Center Contact



NOTE: Typical Crimping Dies Shown

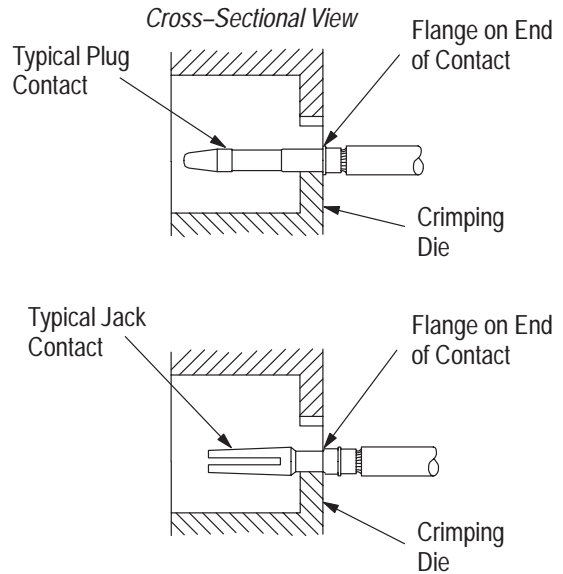


Figure 2

4.2. Crimping the Ferrule (Figure 3)

1. Insert the crimped center contact into the connector body until the cable dielectric butts against the dielectric inside the connector body or until the center contact is securely positioned within the connector. Make sure that the braided shield is over the support sleeve of the connector body and that no strands from the shield enter the connector body.
2. Slide the ferrule up over the braided shield and onto the connector until the ferrule butts against the shoulder on the connector body.
3. Place the ferrule in the appropriate crimping chamber of the anvil die so that the shoulder on the connector body butts against the edge of the die.

NOTE

Refer to the instruction sheet packaged with the connector to determine the appropriate crimping chamber for the ferrule.

4. With a screwdriver, adjust the ratchet wheel from the opposite side of the tool.

CAUTION

Make sure that both sides of the ferrule are started evenly into the crimping chamber. Do NOT attempt to crimp an improperly positioned ferrule.

5. Carefully close the tool handles until the ratchet releases.
6. Allow the tool handles to open fully and remove the crimped connector from the dies.

CAUTION

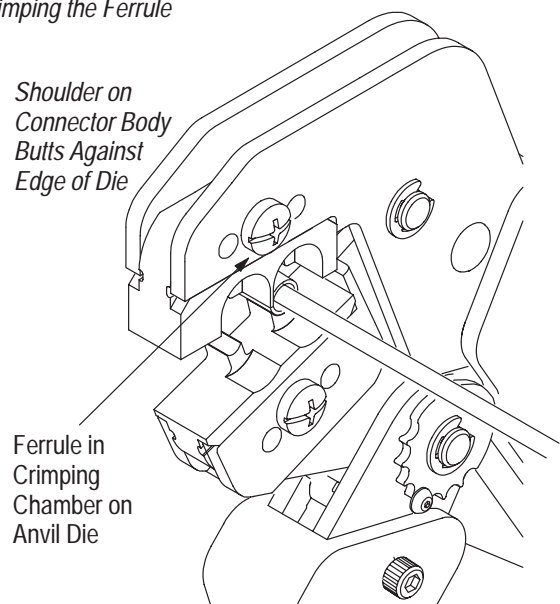
Damaged product should not be used. If a damaged contact or ferrule is evident, it should be replaced with a new one.

5. CRIMP HEIGHT ADJUSTMENT (Figure 4)

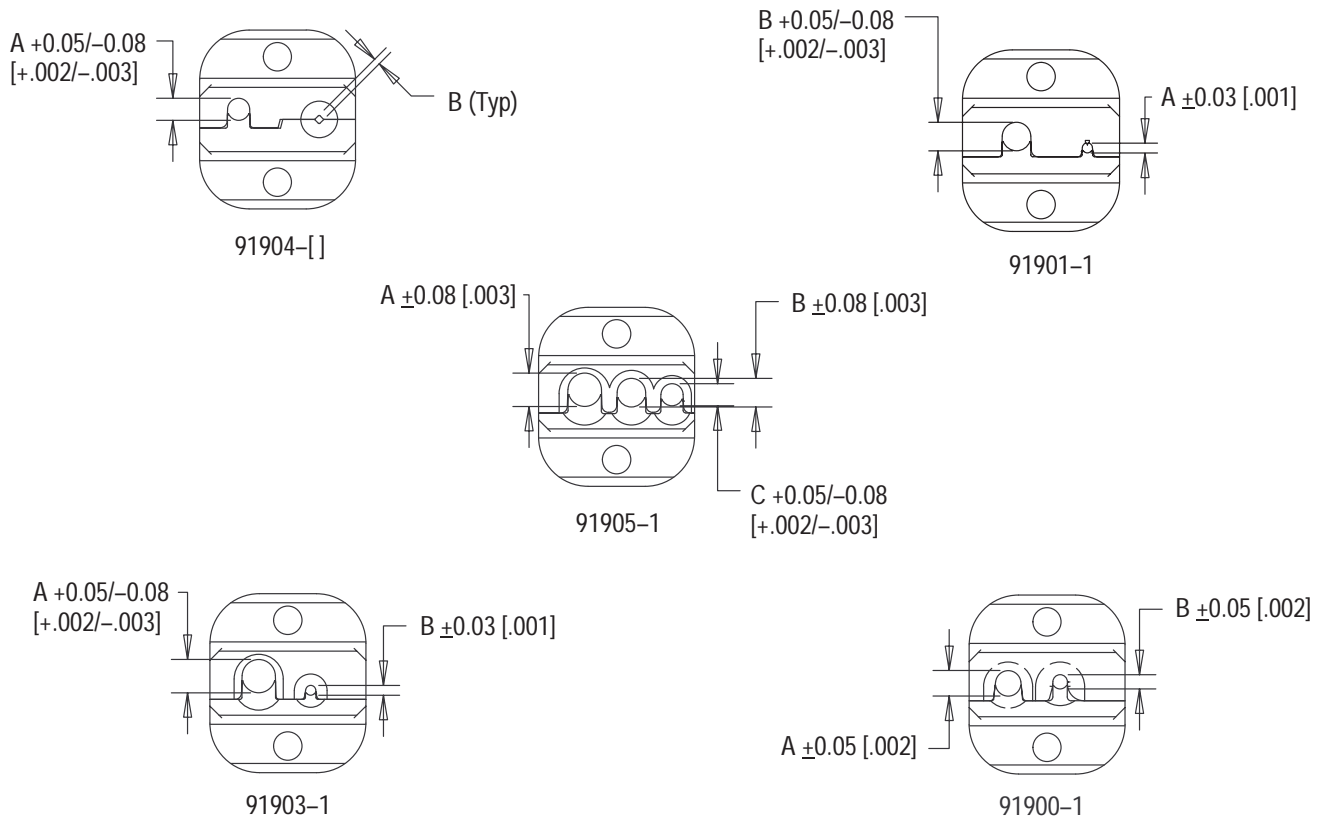
The tool frame assembly ratchet mechanism features an adjustment wheel with numbered settings. If the crimp height is not acceptable, adjust the ratchet as follows:

1. Remove the lockscrew from the ratchet adjustment wheel.
2. With a screwdriver, adjust the ratchet wheel from the opposite side of the tool.

Crimping the Ferrule



NOTE: Typical Crimping Dies Shown
Figure 3



DIE SET	DESCRIPTION	DIE CLOSURE DIMENSIONS		
		A	B	C
91904-1	BNC COAXICON Connectors	4.32 [.170]	1.321-1.257 [.0520-.0500]	---
91904-2	BNC COAXICON Connectors	6.20 [.244]	1.321-1.257 [.0520-.0500]	---
91904-3	BNC COAXICON Connectors	5.54 [.218]	1.283-1.219 [.0510-.0480]	---
91904-4	BNC COAXICON Connectors	5.05 [.199]	1.321-1.257 [.0520-.0500]	---
91901-1	BNC COAXICON Connectors	1.89 [.074]	5.54 [.218]	---
91905-1	ARINC COAXICON Connectors	6.50 [.256]	5.56 [.219]	4.32 [.170]
91903-1	50-Ohm C, HN, N, and TNC COAXICON Connectors	6.50 [.256]	1.93 [.076]	---
91900-1	LFR Fiber Optic Connectors	4.98 [.196]	2.77 [.109]	---

Figure 5

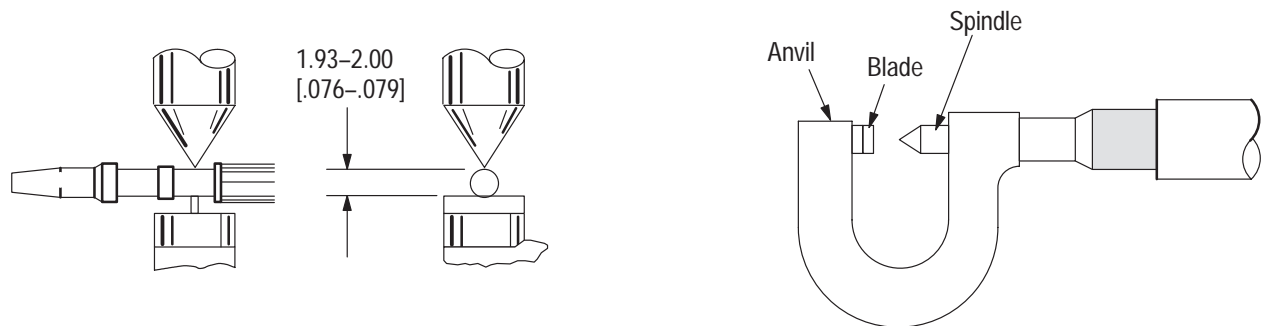


Figure 6