

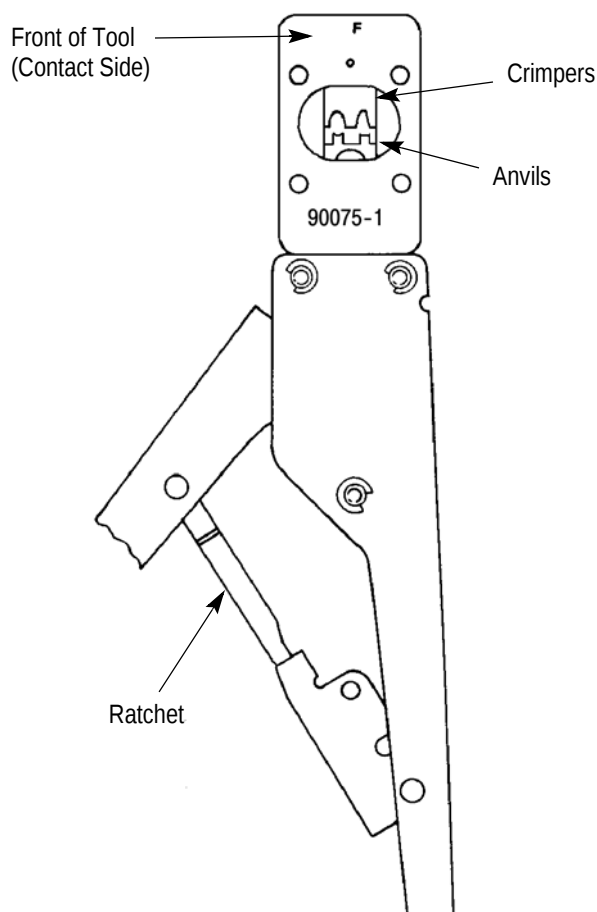


Figure 1

1. INTRODUCTION

Hand Crimping Tool 90075-1 is designed to crimp the spade and ring tongue terminals listed in Figure 2. Read these instructions thoroughly before crimping any contacts.

NOTE



All dimensions in this document are in metric units [with U.S. customary units in brackets]. Figures and illustrations are for identification only and are not drawn to scale.

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

2. DESCRIPTION (Figure 1)

This tool features two fixed dies (crimpers), two movable dies (anvils), a terminal locator/insulation stop, and a ratchet.

The terminal locator/insulation stop positions the terminal between the crimping dies. In addition, the locator/insulation stop aids in locating the wire in the terminal. In use, it rests in the terminal locator slot. See Figures 2 and 3.

The ratchet ensures full crimping of the terminal. Once engaged, the ratchet will not release until the tool handles have been fully closed.

CAUTION

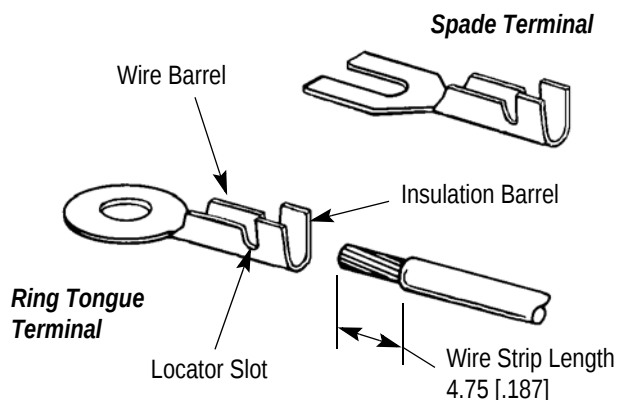


The crimping dies bottom before the ratchet releases. This is a design feature that ensures maximum electrical and tensile performance of the crimp. Do NOT re-adjust the ratchet.

3. CRIMPING PROCEDURE

Refer to the chart in Figure 2 and select wire within the specified wire size and insulation diameter. Strip the wire to the length indicated - do NOT cut or nick the wire strands.

Notice that each crimp section has the applicable wire size stamped above it. Use this marking and the wire size that you are using to determine the proper crimp section.



WIRE			CRIMP SECT (Wire Size Marking)	TERMINAL PART NO.
QTY	SIZE (AWG)	INSULATION DIAMETER		
1	24	1.22 to 1.98 [.048 to .078]	24 - 20	60445
1	20			60500
2	26		2 - 26	60501
2	22		2 - 22	60553 60555

Figure 2

Select an applicable terminal and proceed as follows:

1. Hold the tool so that the back (wire side) is facing you.
2. Make sure that the ratchet is released. Squeeze the tool handles together and allow them to open fully.
3. Looking straight into the back of the tool, insert the terminal (insulation barrel first) into the front of the appropriate crimp section. See Figure 3.

4. Position the terminal in the crimpers so that the locator/insulation stop enters the locator slot in the terminal.
5. Hold the terminal in this position and squeeze the tool handles together until the insulation anvil starts entry into the insulation crimper. Do NOT deform the insulation barrel or wire barrel.
6. Insert a properly-stripped wire or wires through the wire slot of the locator and into the wire barrel of the terminal until the wire insulation butts against the locator/insulation stop.
7. While holding the wire(s) in place, squeeze the tool handles together until the ratchet releases.
8. Allow the tool handles to open fully and remove the crimped terminal.

4. MAINTENANCE/INSPECTION

4.1. Daily Maintenance

Remove all foreign particles with a clean, soft brush or a clean, soft, lint-free cloth. Make sure the proper retaining pins are in place and are secured with the proper retaining rings. If foreign matter cannot be removed easily, or if the proper replacement parts are not available, return the tool to your supervisor.

Make sure all pivot points and bearing surfaces are protected with a thin coat of any good SAE 20 motor oil. Do NOT oil excessively. When the tool is not in

use, keep the handles closed to prevent objects from becoming lodged between the dies, and store the tool in a clean, dry area.

4.2. Periodic Inspection

Regular inspection should be performed by quality control personnel. A record of scheduled inspections should remain with the tool and/or be supplied to the supervisory personnel responsible for the tool. Though recommendations call for at least one inspection a month, the inspection frequency should be based on the amount of use, ambient working conditions, operator training and skill, and established company standards. These inspections should be performed in the following sequence:

A. Visual Inspection

1. Remove all lubrication and accumulated film by immersing the tool (handles partially closed) into a suitable degreaser that will not affect paint or plastic material.
2. Make certain all retaining pins are in place and are secured with the proper retaining rings. If replacements are necessary, refer to Figure 5.
3. Close the tool handles until the ratchet releases, and then allow the handles to open freely. If they do not open quickly and fully, then the spring is defective and must be replaced (see Section 5, REPLACEMENT AND REPAIR).

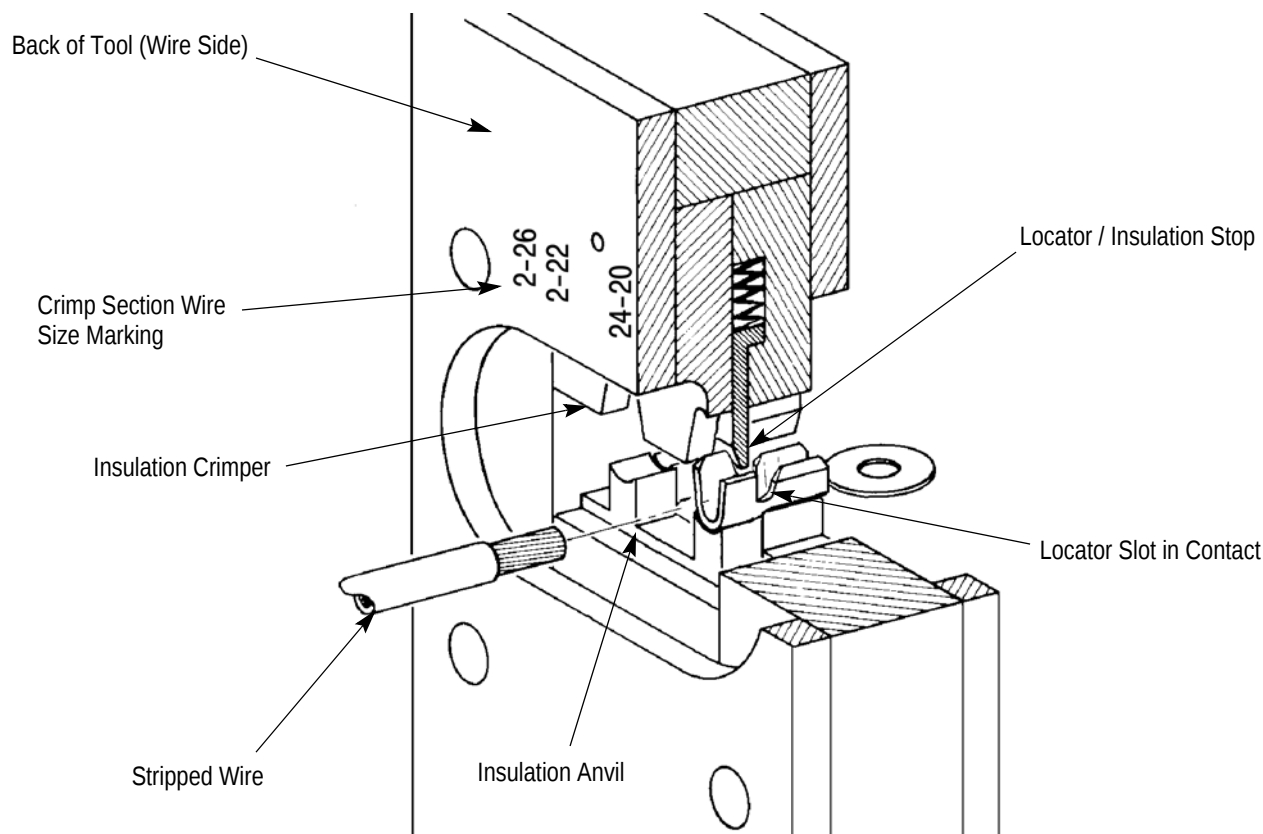


Figure 3

- Inspect the tool, with special emphasis on checking for worn, cracked, or broken crimping dies. If damage to any part of the head is evident, return the tool for evaluation and repair (see Section 5, REPLACEMENT AND REPAIR).

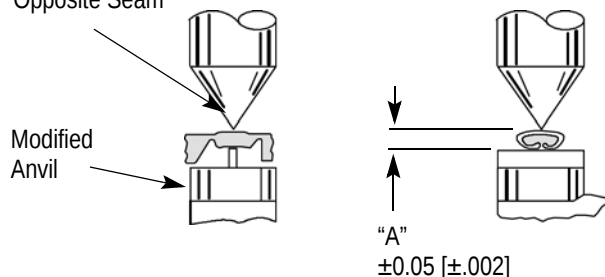
B. Crimp Height Inspection

Crimp height inspection is performed through the use of a micrometer with a modified anvil, commonly referred to as a crimp height comparator. TE does not market crimp height comparators. Refer to Instruction Sheet 408-7424 for detailed information on obtaining and using a crimp height comparator.

Refer to Figure 4 and proceed as follows:

- Refer to the chart in Figure 4 and select a terminal and a wire (maximum size) for each crimp section.
- Refer to Section 3, CRIMPING PROCEDURE, and crimp the terminal(s) accordingly.
- 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 chart, the tool is considered dimensionally correct. If not, return the tool for evaluation and repair (refer to Section 5, REPLACEMENT AND REPAIR).

Position Point on
Center of Wire Barrel
Opposite Seam



TERMINAL NUMBER	WIRE SIZE AWG (Max)	CRIMP SECT (Wire Size Marking)	CRIMP HEIGHT DIM. “A”
60445	20	24 - 20	0.94 [.037]
60500	(2) 22	2 - 26 2 - 22	
60501			
60553			
60556			

Figure 4

C. Ratchet Inspection

Obtain a 0.025 [.001] shim that is suitable for checking the clearance between the bottoming surfaces of the crimping dies. Proceed as follows:

- Select a terminal and maximum size wire for the hand tool.

- Position the terminal and wire between the crimping dies, as described in Section 3, CRIMPING PROCEDURE.

- Holding the wire in place, squeeze the tool handles together until the CERTI-CRIMP ratchet releases. Hold the handles in this position, maintaining just enough tension to keep the dies closed.

- Check the clearance between the bottoming surfaces of the crimping dies. If the clearance is 0.025 [.001] or less, the ratchet is satisfactory. If the clearance exceeds 0.025 [.001], the ratchet is out of adjustment and must be repaired.

If the tool conforms to these inspection procedures, lubricate it with a thin coat of any good SAE 20 motor oil and return it to service.

5. REPLACEMENT AND REPAIR

The parts listed in Figure 5 are customer- replaceable. A complete inventory can be stocked and controlled to prevent lost time when replacement of parts is necessary. Order replacement parts through your TE Connectivity representative, or call 1-800-526-5142, or send a facsimile of your purchase order to 1-717-986-7605, or write to:

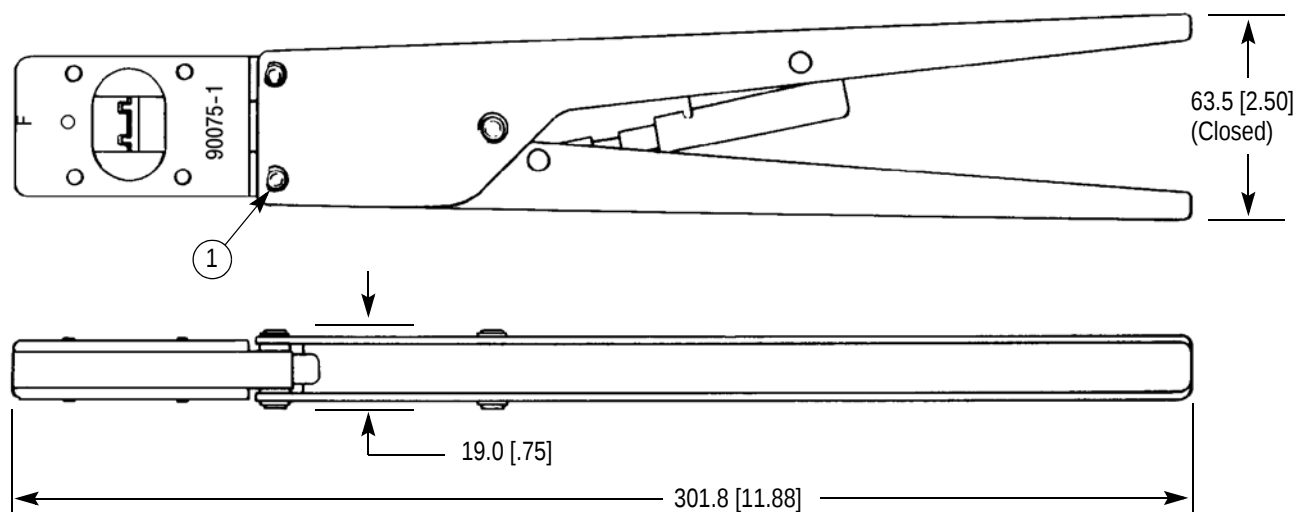
CUSTOMER SERVICE (038-035)
TYCO ELECTRONICS CORPORATION
PO BOX 3608
HARRISBURG PA 17105-3608

For customer repair service, call 1-800-526-5136.

6. REVISION SUMMARY

Since the previous version of this document, the following changes were made:

- Removed logos from graphics.
- Removed trademark references to ratchet.
- Updated crimp height inspection and comparator sourcing information.
- Updated logo and format to corporate requirements.



WEIGHT: 567 g [1 lb 4 oz]



Do not remove the retaining pins or permanent damage to the tool may result.

REPLACEMENT PARTS			
ITEM	PART NUMBER	DESCRIPTION	QUANTITY PER TOOL
1	21045-3	Ring, Retaining	4

Figure 5

Компания «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

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- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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JONHON

«JONHON» (основан в 1970 г.)

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