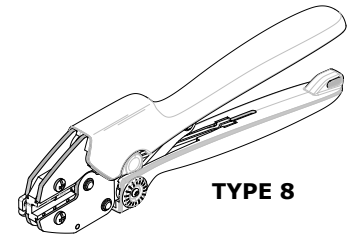


Order Number
64001-0800
Engineering Number
RHT5760

molex®

Application Tooling Specification



TYPE 8

FEATURES

- A full cycle ratcheting hand tool ensures complete crimps
- Long handles for comfortable crimping with reduced crimping force
- A precision user-friendly terminal locator wire stop holds terminals in the proper crimping position
- Insulation crimp adjustment allows a precise insulation crimp. To meet or exceed the requirements of UL, CSA and Military Cass II
- Single color-coded crimp pocket eliminates the possibility of using the wrong pocket

SCOPE

Products: Avikrimp Female Fully Insulated Quick Disconnect, 18-22 AWG.

Wire Size: 18-22 AWG, 0.80-0.35mm ²					
Terminal No.	Terminal Engineering No. (REF)	Wire Strip Length		Insulation Diameter Maximum	
		mm	In.	mm	In.
19002-0001	AA-5261	6.35	.250	3.175	.125
19002-0005	AA-5267	6.35	.250	3.175	.125
19002-0009	AA-5271	6.35	.250	3.175	.125
19002-0013	AA-5275	6.35	.250	3.175	.125
19002-0016	AA-5279	6.35	.250	3.175	.125
19002-0019	AA-5283	6.35	.250	3.175	.125
19002-0021	AA-5285	6.35	.250	3.175	.125
19277-0002	AA-5261-LIF	6.35	.250	3.175	.125

Testing: Mechanical

The tensile test or pull test is a means of evaluating the mechanical properties of the crimped connections. The following chart shows the UL specifications for various wire sizes. The tensile strength is shown in pounds and indicates the minimum acceptable force to break or separate the terminal from the conductor.

Wire Size (AWG)	*UL310
22	8
20	13
18	20

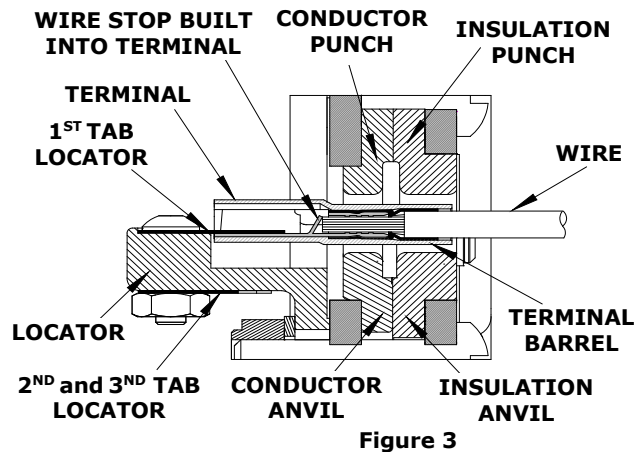
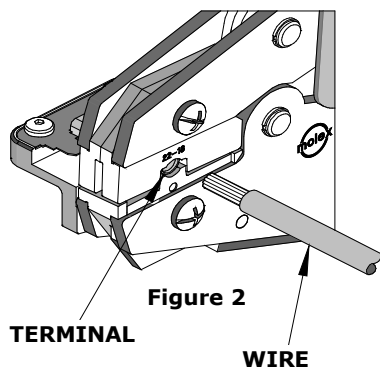
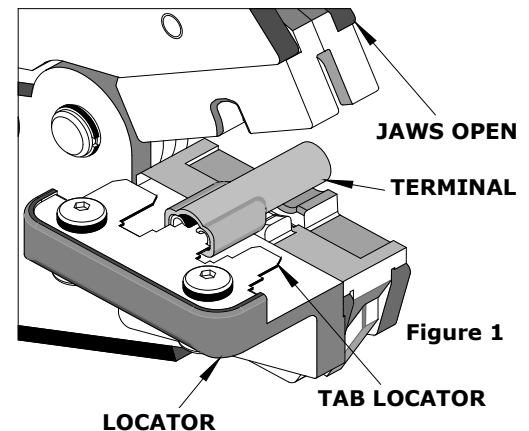
***UL310:** Quick Disconnects

OPERATION

Open the tool by first closing the jaws sufficiently for the ratchet mechanism to release.

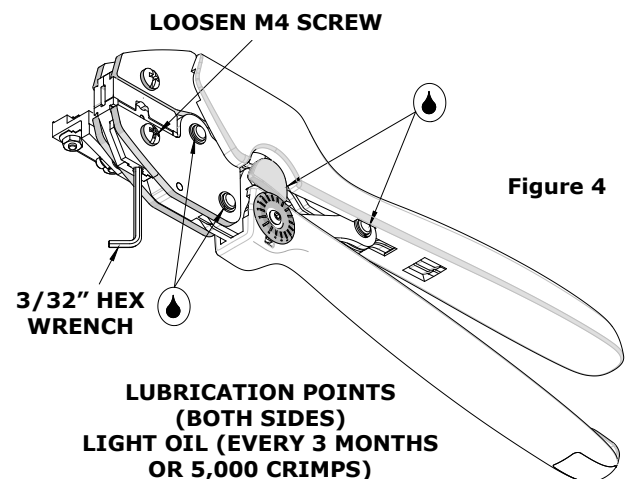
Crimping Terminals

1. There are three tab locator blades supplied with the tool. One is for .187 and .250 tabs; another is for .205 tabs and .110 tabs and another is for LIF terminals. Make sure the proper blade is installed on the top of the locator and the other is stored on the bottom of the locator.
2. Push the terminal onto the tab locator all the way to the stop in the color-coded nest. The barrel of the terminal should be up. See Figure 1.
3. Partially close the tool to hold the terminal in place. See Figure 2.
4. Insert the properly stripped wire into the terminal barrel. See Figures 2 and 3. The end of the wire should butt up against the wire stop stamped into each terminal. Cycle the tool.



Note: The tamper-proof ratchet action will not release the tool until it has been fully closed.

5. Remove the crimp, inspect for proper crimp location and check for insulation closure. Molex offers a Crimp Inspection Handbook for closed-barrel industrial products. Visit the Molex website or contact your sales engineer.
6. If the insulation part of the crimp needs to be adjusted, first loosen the M4 screw on the bottom tool jaw, and then insert a 3/32" hex wrench (supplied) into the bottom of the lower die. See Figure 4. A clockwise rotation decreases insulation crimp, while a counterclockwise rotation increases insulation crimp. After adjusting, retighten the M4 screw.



Note: Whenever crimping without the locator, make sure the seam of the terminal is oriented up or down in the tool if using unbrazed product, as this will provide higher pull force values.

MAINTENANCE

It is recommended that each operator of the tool be made aware of and responsible for the following maintenance steps:

1. Remove dust, moisture and other contaminants with a clean brush or a soft, lint-free cloth.
2. Do not use any abrasive materials that could damage the tool.
3. Make certain all pins, pivot points and bearing surfaces are protected with a thin coat of high-quality machine oil. Do not oil excessively. This tool was engineered for durability, but like any fine piece of equipment, it needs cleaning and lubrication for a maximum service life of trouble-free crimping. A light oil such as 30 weight automotive oil used at the oil points shown in Figure 4 every 5,000 crimps or every 3 months will significantly enhance the tool life and ensure a stable calibration.
4. When the tool is not in use, keep the handles closed to prevent objects from becoming lodged in the crimping dies, and store the tool in a clean, dry area.

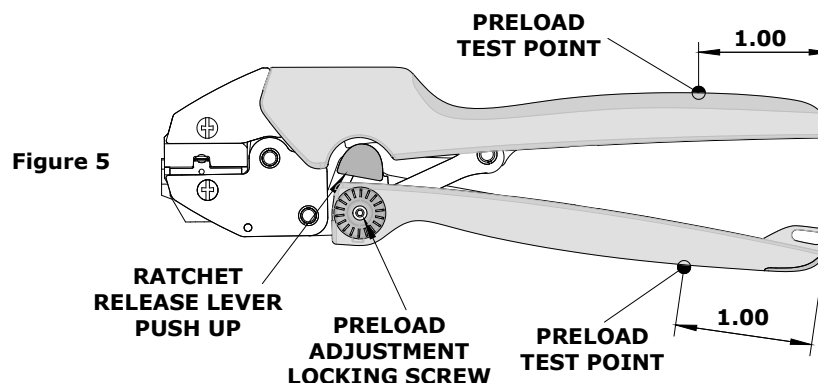
Miscrimps or Jams

Should this tool ever become stuck or jammed in a partially closed position, **Do Not** force the handles open or closed. The tool will open easily by pressing the ratchet release lever. See Figure 5.

How to Adjust Tool Preload (See Figure 5)

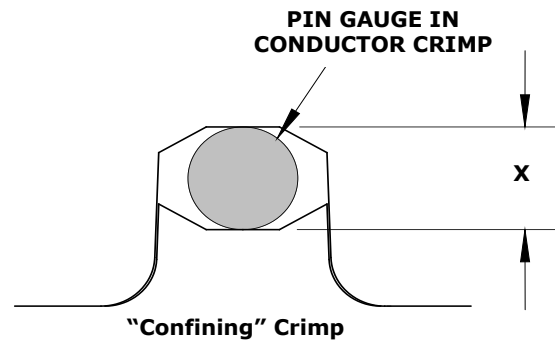
Over the life of the tool, it may be necessary to adjust tool handle preload force. Listed below are the steps required to adjust the crimping force of the hand tool to obtain proper crimp conditions:

1. Remove the screw and plastic cover washer. Note the setting wheel position.
2. Lift the setting wheel off the axle. Turn the eccentric axle with a screwdriver.
3. Turning the eccentric axle counterclockwise will increase handle force.
4. Replace the setting wheel to the axle, aligning the nearest notch in the setting wheel to the dowel pin.
5. Replace the plastic cover washer and screw.
6. Check the crimp specifications after tool crimp force is adjusted.



Tool Calibration

A Certificate of Calibration (see last page) was supplied with the tool. To recalibrate this tool, pin gauge measurements should be taken in each conductor nest and compared to this chart. The tool should be lubricated prior to recalibration to ensure consistent measurements. Handle preload is factory set to 25-45 pounds. See How to Adjust Tool Preload (Figure 5) to recalibrate.



Nest Color Code	Wire Range		"X" Dimension Conductor Crimp			Crimp Inspection Marking
	AWG	mm ²	Mean	Go	No-Go	
Red	18-22	0.35-0.80	.089	.086	.092	o

WARRANTY

This tool is for electrical terminal crimping purposes only. This tool is made of the best quality materials. All vital components are long-life tested. All tools are warranted to be free of manufacturing defects for a period of 30 days. Should such a defect occur, Molex will repair or exchange the tool free of charge. This repair or exchange will not be applicable to altered, misused or damaged tools. This tool is designed for hand use only. Any clamping, fixturing or use of handle extensions voids this warranty.

CAUTION: Repetitive use of this tool should be avoided.

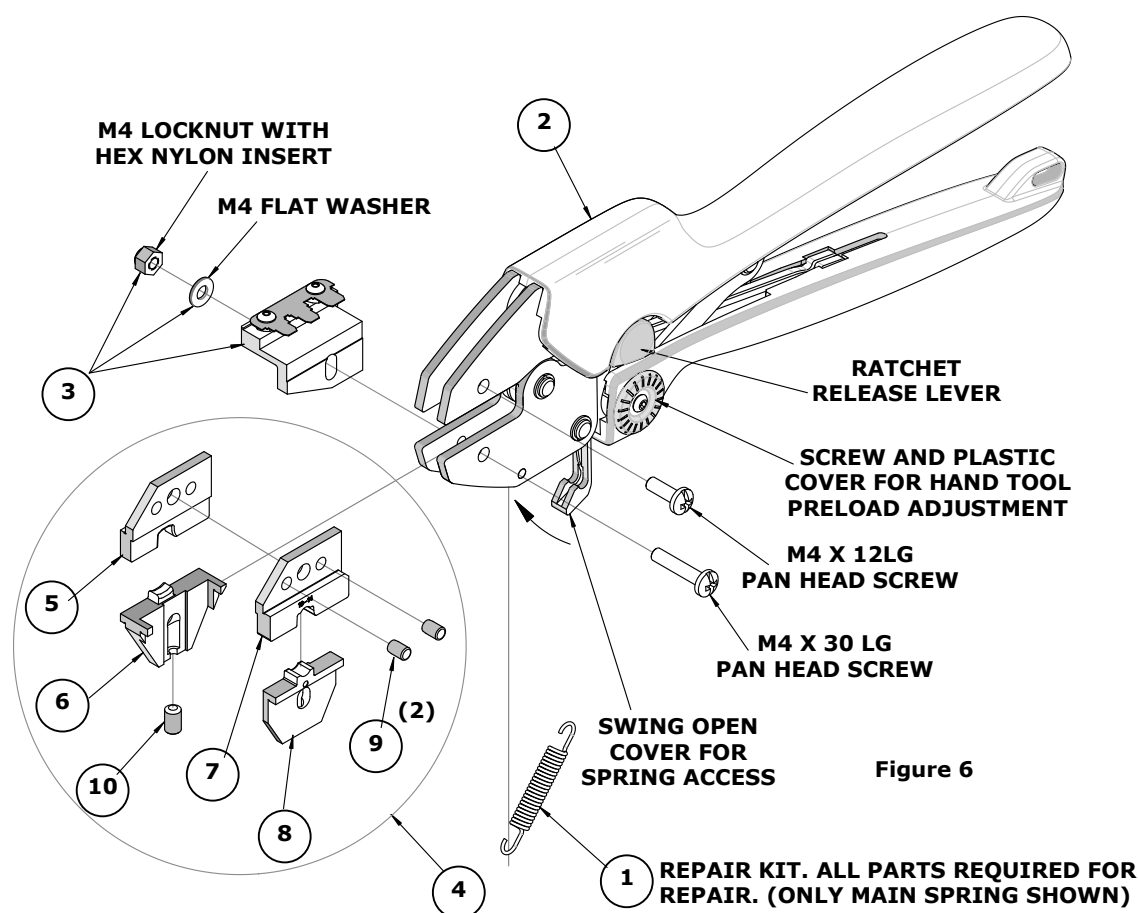
Handheld crimping tools are intended for low volume, prototyping or repair requirements only.

CAUTION: Molex crimp specifications are valid only when used with Molex terminals, applicators and tooling.

PARTS LIST

Item	Order No.	Description	Quantity
	64001-0800	Hand Crimp Tool	Figure 6
1	64000-0076	Repair Kit (Springs, Pins and E-Rings)	1
2	63810-0000	Handle	1
3	64001-0475	Locator Assembly	1
4	64001-0870	Tooling Kit	1
Tooling Kit Only			
5	64001-0802	Conductor Punch	1
6	64001-0801	Conductor Anvil	1
7	64001-0804	Insulation Punch	1
8	64001-0803	Insulation Anvil	1
9	—	4mm Diameter by 5.0mm Long Roll Pins	2*
10	—	#10-32 by 5/16" Long Cup Pt. Set Screw	1*

* Available from an industrial supply company.



Application Tooling Support

Phone: (402) 458-TOOL (8665)

E-Mail: applicationtooling@molex.com

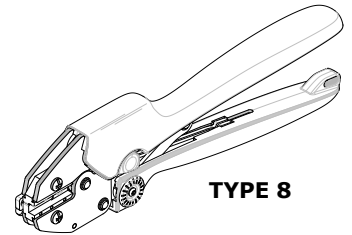
Website: www.molex.com/applicationtooling

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Order Number
64001-0800
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RHT5760



Certificate of Calibration



Tool Order Number: _____

Tool Eng. Number: _____

Tool Revision: _____

Serial Number: _____

Date of Manufacture: _____

Pin Gauge of Conductor Nest/Nests or Slug height if the nest is the "F" Crimp style.

Range Conductor Nest # 1 = _____ — Actual = _____

Range Conductor Nest # 2 = _____ — Actual = _____

Range Conductor Nest # 3 = _____ — Actual = _____

Technician: _____

Date of Calibration: _____

Calibration should be done every 5,000 cycles or every 3 months. Tools should be lubricated during this operation.

Application Tooling Support

Phone: (402) 458-TOOL (8665)
E-Mail: applicationtooling@molex.com
Website: www.molex.com/applicationtooling

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