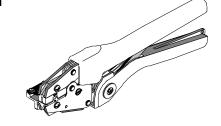


Hand Crimp Tool Operating Instruction And Specifications Sheet Order No. 64001-1700 Eng. No. RHT 5757 (Replaces 19285-0035) FEATURES



- 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

Avikrimp®and InsulKrimp® Female Quick Disconnect Terminals18–22 AWG

Testing

Mechanical

The tensile test or pull test is a means of evaluating the mechanical properties of the crimped connections. The following charts show 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)	*UL - 310
22	8
20	13
18	20

*UI - 310 - Quick Disconnects

The following is a partial list of the product part numbers and their specifications that this tool is designed to run. We will be adding to this list and an up to date copy is available on www.molex.com.

Wire Size: 18 – 22		AWG	0.80 - 0.3	5 mm²	
Terminal No.	Terminal	Wire Strip Length		Insul. Dia. Max.	
rerminai No.	Eng No. (REF)	ln.	mm	ln.	mm
19017-0001	AA-2131	0.31	7.94	0.13	3.30
19017-0005	AA-2134	0.31	7.94	0.13	3.30
19017-0007	AA-2137	0.31	7.94	0.13	3.30
19017-0008	AA-2137-032	0.31	7.94	0.13	3.30
19017-0014	AA-2140	0.31	7.94	0.13	3.30
19017-0018	AA-2190	0.31	7.94	0.13	3.30
19019-0001	AA-8131	0.25	6.35	0.12	2.92
19019-0004	AA-8134	0.25	6.35	0.12	2.92
19019-0006	AA-8137	0.25	6.35	0.12	2.92
19019-0008	AA-8137-032	0.25	6.35	0.12	2.92
19019-0012	AA-8140	0.25	6.35	0.12	2.92
19019-0014	AA-8190	0.25	6.35	0.12	2.92
19019-0015	AA-8190-032	0.25	6.35	0.12	2.92

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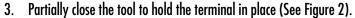
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OPERATION

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

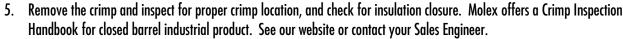
Crimping Terminals

- 1. There are 2 tab locator blades supplied with the tool. One is for .187 and .250 tabs: the other is for .205 tabs and .110 Tabs. 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

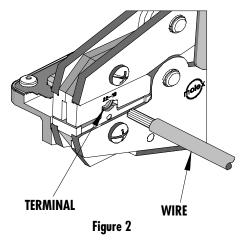




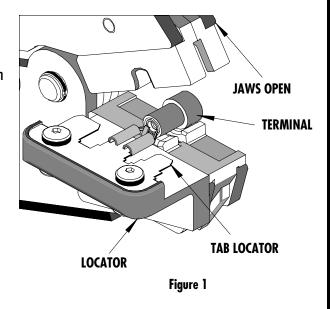


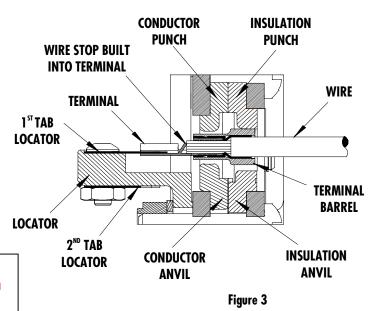


If the insulation part of the crimp needs to be adjusted, first loosen the M4 screw on the bottom tool jaw, then insert a 3/32 hex wrench (supplied) into the bottom of the lower die (See Figure 4). A clockwise (CW) rotation decreases insulation crimp while a counter-clockwise (CCW) rotation increases 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.





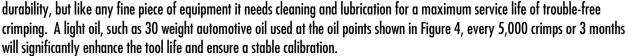
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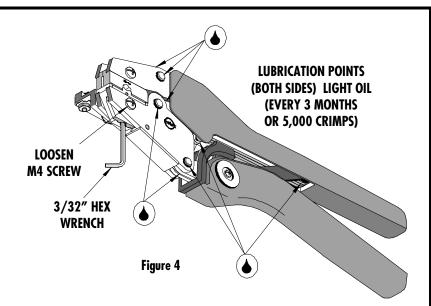
Maintenance

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

- Remove dust, moisture, and other contaminants with a clean brush, or 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. The 64001-1700 (RHT-5757) was engineered for



4. When 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.

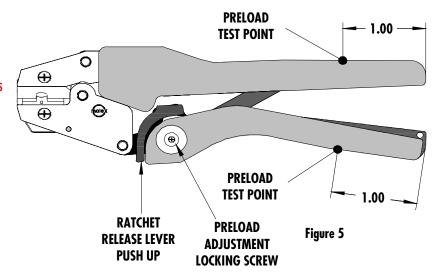


Miscrimps or Jams

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:



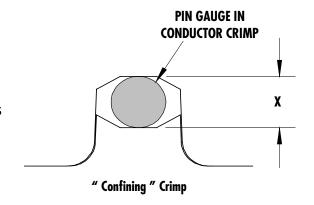
- 1. Remove the screw and plastic cover washer. Note the setting wheel position.
- Lift the setting wheel off the axle. Turn the eccentric axle with a screwdriver.
- Turning the eccentric axle counter-clockwise will increase handle force.
- Replace the setting wheel to the axle, glianing the negrest notch in the setting wheel to the dowel pin. 4.
- Replace the plastic cover washer and screw.
- Check the crimp specifications after tool crimp force is adjusted.

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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 LBS. See How to Adjust Tool Preload (See Figure 5) to recalibrate.



Nest Color Code	Wir	e Range	"X" Dimension Conductor Crimp		Crimp Inspection Marking	
	AWG	mm²	Mean	Go	No Go	Mulking
Red	18 - 22	0.35 - 0.80	.080	.076	.088	00

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, we 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.

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

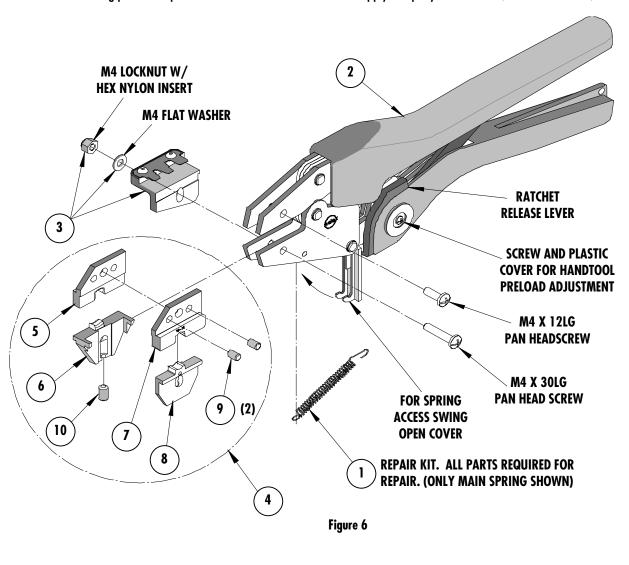
Caution: Repetitive use of this tool should be avoided.

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PARTS LIST

Item	Order No	Description	Quantity	
	64001-1700	Hand Crimp Tool	(Fig. 6)	
1	64000-0076	Repair Kit (Springs, Pins and E-Rings)	1	
2	63810-0000	Handle	1	
3	64001-0275	Locator Assembly	1	
4	64001-1770	Tooling Kit	1	
Tooling Kit Only				
5	64001-0702	Conductor Punch	1	
6	64001-0701	Conductor Anvil	1	
7	64001-1712	Insulation Punch	1	
8	64001-1711	Insulation Anvil	1	
9	N/A	4 mm Dia. by 5.0 mm Lg.Roll Pins	2**	
10	N/A	#10-32 by 5/16" Lg. Cup Pt. Set Screw	1**	

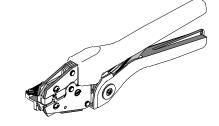
** The following purchased parts are available from an Industrial supply company such as MSC (1-800-645-7270).



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Certificate of Calibration

Tool Order Number				
Tool Eng. Number				
Tool Revision				
Serial Number				
Date of Manufacture				
	Handle Load Range at 1 inch from the Tips =			
	Actual =			
Pin Gauge of Conductor Nest/Nests or Slug height if	the nest is the "F" Crimp style.			
Range Conductor Nest # 1 = A	ctual =			
Range Conductor Nest # 2 = A	ctual =			
Range Conductor Nest # 3 = A	ctual =			
Technician				
Date of Calibration				
Calibration should be done every 5,000 cycles or 3 months. Tools should be lubricated during this operation.				

Molex Application Tooling Group

1150 E. Diehl Road Naperville, IL 60563 Tel: (630) 969-4550

Fax: (630) 505-0049

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