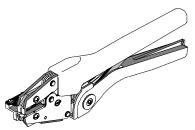


Hand Crimp Tool Operating Instruction And Specifications Sheet Order No. 64001-6200 Eng. No. 19800-1200



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 for each of the three nests
- Insulation crimp adjustment allows a precise insulation crimp. To meet or exceed the requirements of UL, CSA and Military Class II
- 3-nested tool eliminates the need for additional tools

SCOPE

InsulKrimp® Piggyback Quick Disconnect 10 - 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
16	30
14	50
12	70
10	80

*UL – 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 <u>www.molex.com</u>

Wire Size: 10 - 12 AWG 5.00 - 3.30mm ²						
Terminal No.	Terminal Eng No. (REF)	Wire Strip Length		Insul. Dia. Max.		
ierminai No.		In	mm	In.	mm	
19011-0007	C-2303	.380	9.53	.260	6.48	
19013-0018	C-2319	.380	9.53	.280	7.11	

Wire Size: 14 - 16 AWG 2.00 - 1.30mm ²					
Torminal No	Terminal Eng No. (REF)	Wire Strip Length		Insul. Dia. Max.	
		In.	mm	In.	mm
19011-0004	BB-2302	.310	7.94	.150	3.68

Wire Size: 18 – 22 AWG 0.80 – 0.35mm ²					
Terminal No.	Terminal Eng No. (REF)	Wire Strip Length		Insul. Dia. Max.	
		ln.	mm	In.	mm
19011-0001	AA-2301	.310	7.94	.140	3.56

OPERATION

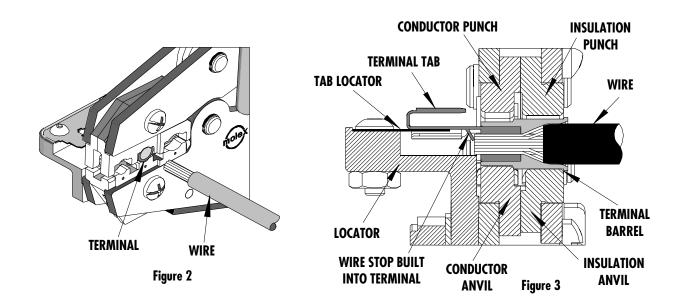
Open the tool by first closing the jaws sufficiently for the ratchet mechanism to release.

Crimping Terminals

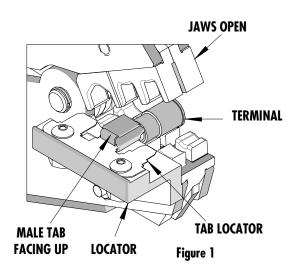
- 1. Push the terminal onto the Tab Locator all the way to the stop in the proper color-coded nest. The male tab of the terminal should be up. See Figure 1.
- The height of the locator may need to be adjusted when changing from one terminal size to another. To do this, loosen the locator lock nut, (See Figure 3), and adjust height so the tab aligns with the female locator tab. Tighten the lock nut.
- 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 Figure 2 and 3. The wires end should butt 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 and inspect for proper crimp location, and check for insulation closure. Molex offers a Crimp Inspection Handbook for closed barrel industrial product. See our website or contact your sales engineer.



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.



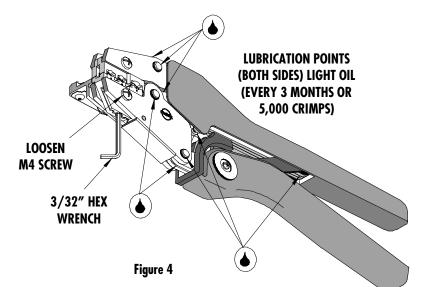
Release Date: 09-19-06 Revision Date: 09-19-06

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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.

- 1. 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.



- 4. The 64001-6200 (19800-1200) 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 3 months will significantly enhance the tool life and ensure a stable calibration.
- 5. 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.

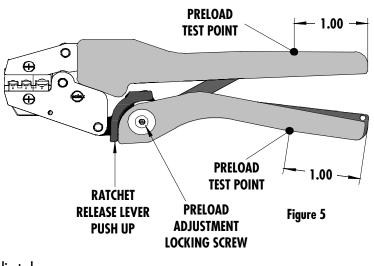
Miscrimps or Jams

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)

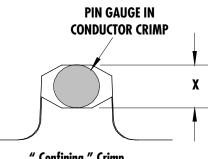
Over the life of the tool, it may be necessary to adjust tool handle preload force. Listed below are the steps required to adjust the crimping force of the hand tool to obtain proper crimp conditions:

- 1. Remove the screw and plastic cover washer. Note the setting wheel position.
- 2. Lift the setting wheel off the axle. Turn the eccentric axle with a screwdriver.
- 3. Turning the eccentric axle counter-clockwise 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 LBS. See How to Adjust Tool Preload (see Figure 5) to recalibrate.





Nest Color Code	Wire	Wire Range		" Dimer ductor (Crimp Inspection Marking	
	AWG	mm ²	Mean	Go	No Go	Marking
Red	18 - 22	0.35 - 0.80	.080	.076	.084	N/A
Blue	14 - 16	1.30 - 2.00	.098	.094	.102	N/A
Yellow	10 - 12	3.30 - 5.00	.140	.136	.146	N/A

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.

CAUTION: Repetitive use of this tool should be avoided.

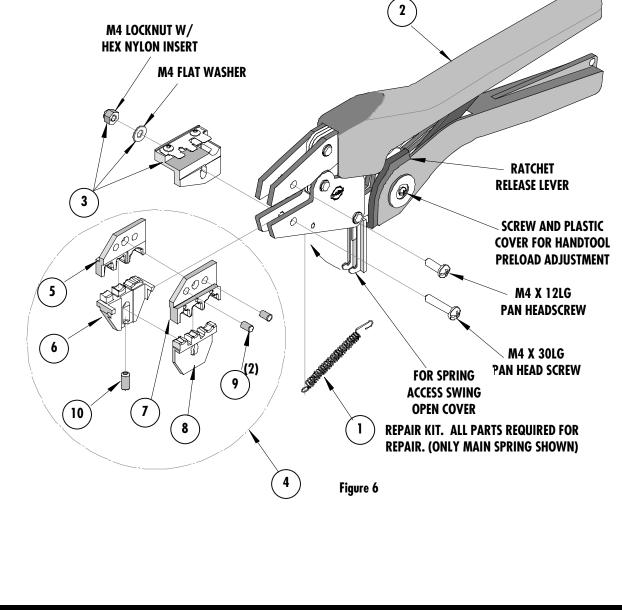
Hand held crimping tools are intended for low volume, prototyping, or repair requirements only.

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

PARTS LIST

ltem	Order No	Description	Quantity			
	64001-6200	Hand Crimp Tool	(Figure 6)			
1	64000-0076	Repair Kit (Springs, Pins and E-Rings)	1			
2	63810-0000	Handle	1			
3	64001-6275	Locator Assembly	1			
4	64001-6270	Tooling Kit	1			
	Tooling Kit Only					
5	64001-6201	Conductor Punch	1			
6	64001-6202	Conductor Anvil	1			
7	64001-6204	Insulation Punch	1			
8	64001-6203	Insulation Anvil	1			
9	N/A	4 mm Dia. by 5.0 mm Long Roll Pins	2**			
10	N/A	#10-32 by 5/16" Long Cup Pt. Set Screw]**			

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



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		molex®		
	C	Certificate of Calibration		
Tool Order Number		-		
Tool Eng. Number				
Tool Revision				
Serial Number				
Date of Manufacture_				
		Handle Load Range at 1 ir	nch from the Tips =	
			Actual =	
-	r Nest/Nests or Slug height if t			
Range Conductor Nest 7	# 1 = Ac	tual =		
Range Conductor Nest 7	# 2 = Ac	tual =		
Range Conductor Nest 7	# 3 = Ac	tual =		
Technician				
Date of Calibration				
	one every 5,000 cycles or 3 m ted during this operation.	ionths.		
Americas Headquarters Lisle, Illinois 60532 U.S.A. 1-800-78MOLEX amerinfo@molex.com	Far East North Headquarters Yamato, Kanagawa, Japan 81-462-65-2324 feninfo@molex.com	Far East South Headquarters Jurong, Singapore 65-6-268-6868 fesinfo@molex.com	European Headquarters Munich, Germany 49-89-413092-0 eurinfo@molex.com	Corporate Headquarters 2222 Wellington Ct. Lisle, IL 60532 U.S.A. 630-969-4550
	Visit ou	Web site at http://www.mole	x.com	Fax: 630-969-1352