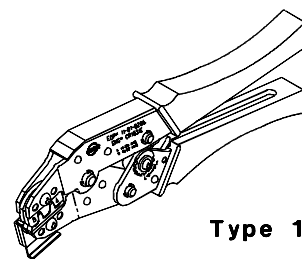




# HAND CRIMP TOOL

## Operating Instruction and Specification Sheet

### Order No. 63811-3600



Type 1

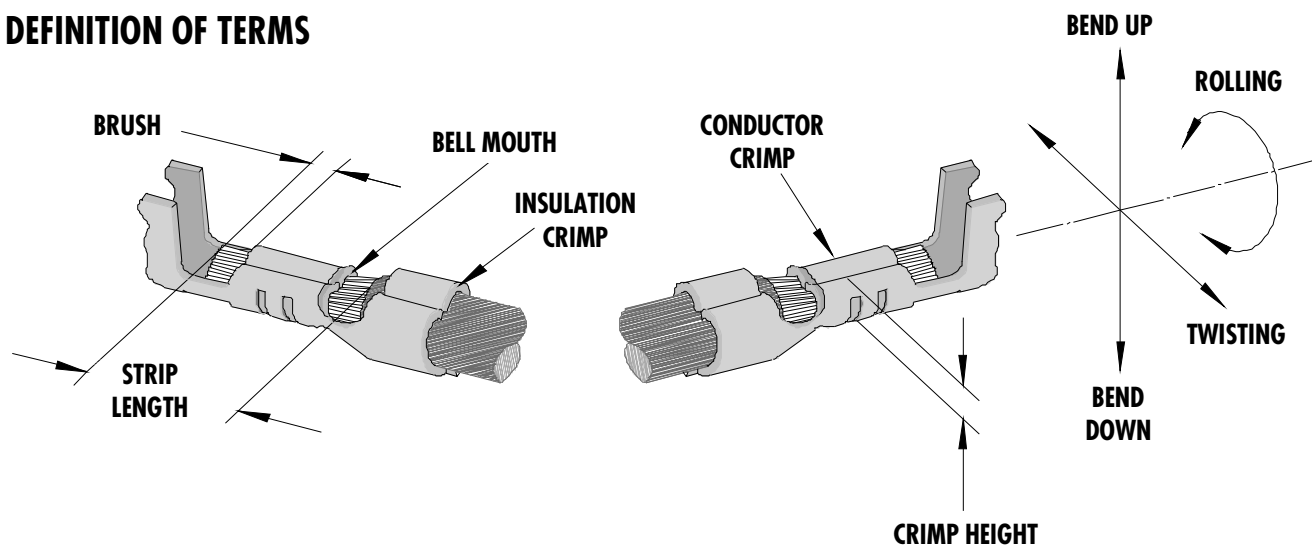
### FEATURES

- Small handle spread which make this style tool ideally suited for end users
- Ratchet with safety release that ensures consistent performance

### SCOPE

Terminal Series No.	Wire Size		Insulation Diameter		Strip Length	
	AWG	mm <sup>2</sup>	mm	In.	mm	In.
87421-0000	24	0.20	1.15 Max.	.045 Max.	1.05-1.54	.041-.061
87421-0000	26	0.12	1.00 Max.	.039 Max.	1.05-1.54	.041-.061
87421-0000	28	0.08	1.00 Max.	.039 Max.	1.05-1.54	.041-.061
87421-0000	30	0.05	1.00 Max.	.039 Max.	1.05-1.54	.041-.061

### DEFINITION OF TERMS



The above terminal drawing is a generic terminal representation. It is not an image of a terminal listed in the scope.

### CONDITIONS:

After crimping, the conductor profiles should measure the following (see notes on page 3).

Terminal Series No.	Wire Size		Cond. Crimp Height (Ref)		Punch Width (Ref)				Pull Force Min.		Profile	
	AWG	mm <sup>2</sup>	mm	In.	Cond.		Ins.		N	Lb.	A	B
					mm	In.	mm	In.				
87421-0000	24	0.20	0.56-0.60	.022-.024	1.00	.039	1.10	.043	29.4	6.60	X	
87421-0000	26	0.12	0.52-0.58	.020-.023	1.00	.039	1.10	.043	19.6	4.40		X
87421-0000	28	0.08	0.52-0.58	.020-.023	1.00	.039	1.10	.043	9.8	2.20		X
87421-0000	30	0.05	0.52-0.58	.020-.023	1.00	.039	1.10	.043	6.7	1.50		X

## OPERATION

Open the tool by squeezing the handles together, at the end of the closing stroke, the ratchet mechanism will release the handles, and the hand tool will spring open.

### Crimping Terminals

1. Lift the locator blade and place the terminal into the correct die profile (A or B), release the locator blade. Not all tools are equipped with a locator or locator blade.

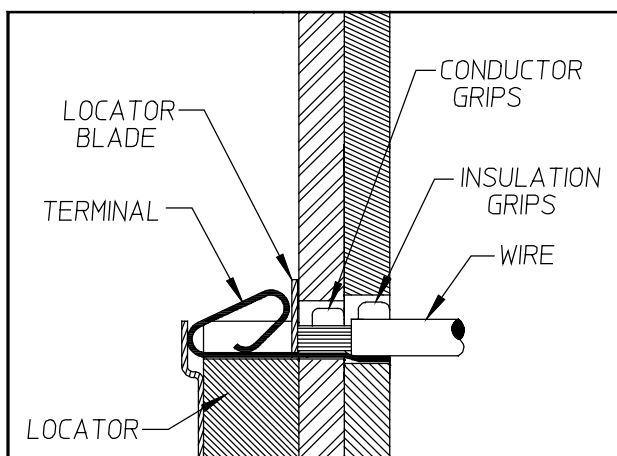


Figure 2

### 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. 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 lifting the ratchet release lever (See Figure 4).

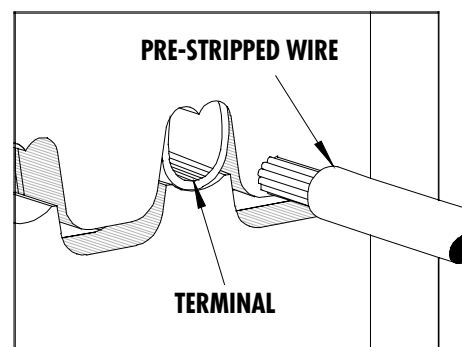


Figure 1

2. Partially close the tool until the terminal is held in place, (See Figure 2).
3. Place a wire into the terminal and up against the locator blade, (See Figure 3). On tools without locators line the wire up with the conductor and insulation grips visually.
4. Close the tool until the ratchet releases, (See Figure 4).
5. Lift the locator blade or wire stop up.
6. Carefully remove the crimped terminal.

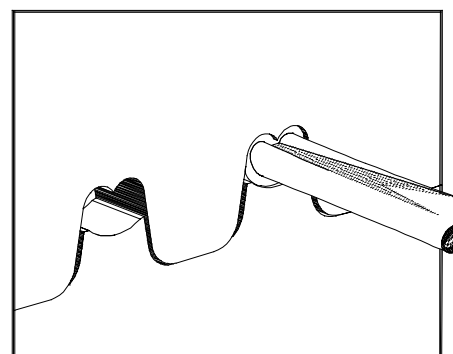


Figure 3

## How To Adjust Tool Crimp Force (See Figure 4)

It may be necessary over the life of the tool to adjust tool-crimping 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 washer. Located over the adjustment ring.
2. Lift the adjusting ring slightly, off of the locating pin.
3. Turn the adjusting ring in the desired direction (L= less force, T= more force) to increase or decrease crimp pressure.
4. Press the adjusting wheel flat against the tool and engage the locking pin.
5. Replace the washer and screw.
6. Check the crimp specifications after tool crimp force is adjusted.

## 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 would exchange the tool free of charge. This 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.

## Notes:

1. This tool should only be used for the terminals and wire gauges specified on this sheet.
2. This tool is not adjustable for crimp height, however crimp force is adjustable (See instructions above). Variations in tools, terminals, wire stranding and insulation types may affect crimp height.
3. This tool is intended for standard conductor sizes. It may not give a good insulation crimp support for all insulation sizes.
4. Molex does not repair hand tools (see warranty above) The replacement parts listed are the only parts available for repair. If the handles or crimp tooling is damaged or worn, a new tool must be purchased.
5. Pull force should be used as the final criteria for an acceptable crimp. Pull force is measured with no influence from the insulation crimp. The insulation should be stripped long (1/2 in.) so the insulation grips on the terminal do not grip the wire insulation or the conductor. Refer to Molex Quality Crimping Handbook 63800-0029 for additional information on crimping and crimp testing.
6. Molex does not certify crimp hand tools.

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

## PARTS LIST

Item Number	Order Number	Description	Quantity
1	63811-3675	Locator Assembly**	1
2	11-11-0324	Spring (Main)	1
3	11-11-0320	Spring (Ratchet)	1

\*\* Not all tools are equipped with a locator or locator blade.

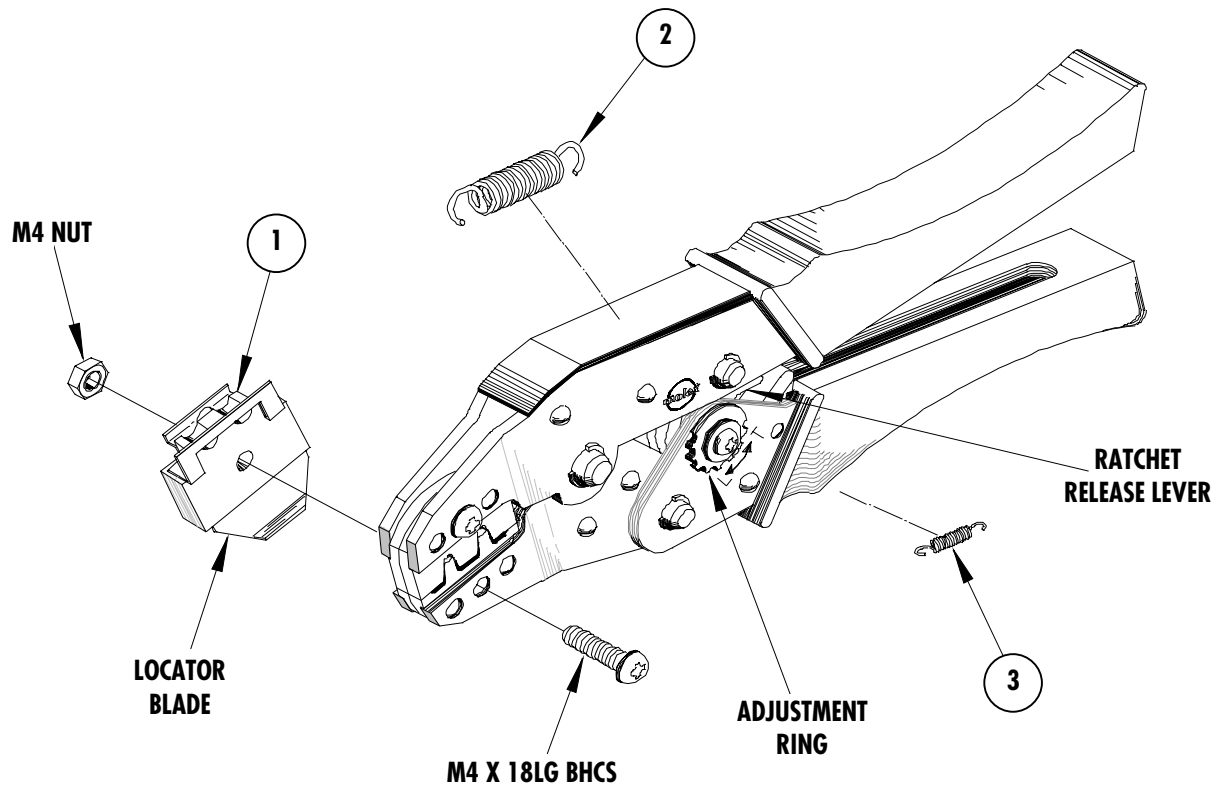


Figure 4

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