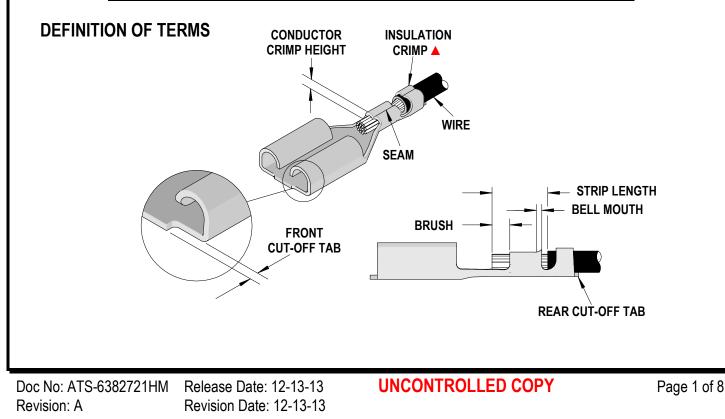


- % A full cycle ratcheting hand tool ensures complete crimps
- % Ergonomically designed soft handles
- % Precisely designed crimping profiles with simple contact positioning
- % Easy handling due to outstanding force ratio
- Tool kits are easily installed into the Hand Crimp Tool or the 63816-0300 Power Crimp Head which is installed into the 63816-0200 (110 V) or the 63816-0250 (220 V) Battery Powered Tool.
- Many different Tool kits can be used with a single Battery Powered Tool.
- This tool is IPC/WHMA-A-620 Class 2 and RoHS compliant.

SCOPE

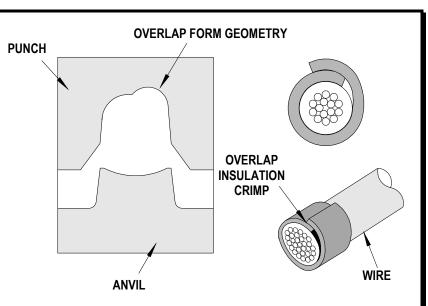
Products: .250 Slip-in Receptacle Terminals for 14-18 AWG Wire.

Terminal Series No.	Terminal Order No.	Wire Size		Insulatio	on Diameter	Strip Length		
Terminal Series No.	*Reel Form Only	AWG	mm²	mm	In.	mm	In.	
	35725-2400	14	2.00					
35725	35725-2410	16	1.30	3.2-3.8	.126150	6.00-6.80	.236268	
	35725-2411	18	0.80					
*Customer to cut off terminal from reel: Front and Rear Cut-off Tab 0.50mm (.020") maximum.								



Insulation Crimp Note:

Due to the terminal's insulation grip design and/or insulation diameter range, this tool uses "overlap" form geometry in the insulation punch. This produces an overlap insulation crimp (A620 - compliant). While the insulation punch profile may appear "lopsided", this is a normal condition for this tool. See figure to the right. (Some tools with multiple crimp pockets may not have the "overlap" profile on all pockets).



CONDITIONS:

After crimping, the conductor profiles should measure the following (see notes below).

	Wire Size Conducto			onductor C	Crimp		Insulation Crimp			Pull Force		Profile			
Terminal Series No.		Wire Size		Height W		Width (Ref)		Height (Ref)		ı (Ref)	Minimum		FIUIIIe		
	AWG	mm ²	mm	ln.	mm	In.	mm	In.	mm	In.	Ν	Lbs	Α	В	С
	14	2.00	1.90-2.00	.075079	2.95	.116	4.40	.173	4.25	.167	245	55.1		Х	
35725	16	1.30	1.75-1.85	.069073	2.95	.116	4.35	.171	4.00	.157	176	39.6			Х
	18	0.80	1.60-1.70	.063067	2.95	.116	4.40	.173	4.20	.165	127	28.6	Х		
+ To Achieve IPC-A-620 Class 2 Crimps, the following over-all wire insulation diameter ranges are recommended:															
1. Profile A (18 AWG): 3.20-3.30mm (.126130 inch)															
 Profile B (14 AWG): 3.20-3.50mm (.126138 inch) 															
3. Profile C (16 AWG): 3.20mm (.126 inch)															

Tool Qualification Notes:

- 1. Pull Force should be measured with no influence from the insulation crimp.
- 2. The above specifications are guidelines to an optimum crimp.

Note:

A crimp height chart is provided with this manual as Reference Only. Due to the wide range of wires, strands, insulation diameters, and durometers, actual crimp height measurements may very slightly. An occasional, destructive, pull force test should be preformed to check hand tool crimp. Pull Force value must exceed the minimum pull force specifications listed.

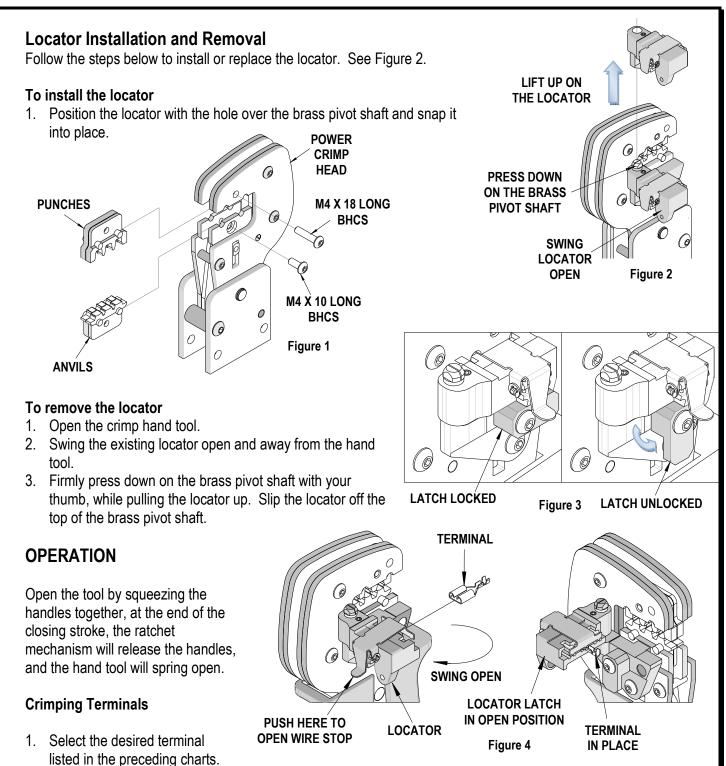
CAUTION: Install only Molex terminals listed above with this tool. Do not crimp hardened objects as damage can occur to the tool or die.

INSTALLATION

To install the Tool Kit into the Power Crimp Head follow the steps below:

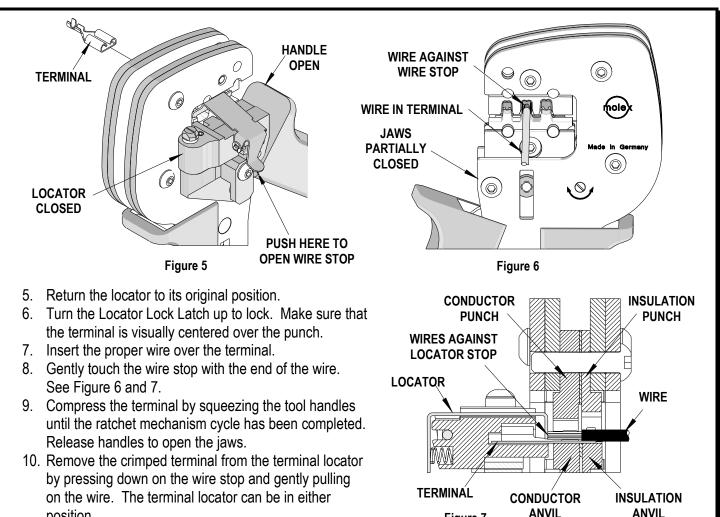
Anvils and Punches Installation

- 1. Insert the Anvils into the bottom slots of the nest. Install the M4 x 10 long BHCS and tighten in place.
- 2. Insert the Punches into the top slots of the nest. Install the M4 x 18 long BHCS and tighten in place. See Figure 1.



- 2. Turn the Locator Lock Latch down to unlock. See Figure 3.
- 3. Swing the terminal locator away from the crimp tool shown in Figure 4. Some terminals with large insulation grips may interfere with the crimp tooling when swinging the locator into position. The terminal must then be loaded into the locator in the closed/crimp position. See Figure 5.
- 4. Press down on the wire stop on the locator as shown in Figure 1. Insert the proper terminal into the proper nest opening. Make sure when choosing the nest opening, it will correspond with the A, B or C profile on the hand tool.

Tool Kit for 250 Slip-in Receptacle Terminals



position. 11. Visually inspect the crimped terminal for proper crimp location.

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

For the Battery Power Tool:

- 1. Cycle the Battery Power Tool to crimp the terminal to the wire.
- 2. Remove the crimped terminal from the terminal locator by pressing down on the wire stop and gently pulling on the wire. The terminal locator can be in either position.
- 3. Visually inspect the crimped terminal for proper crimp location.

Maintenance

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

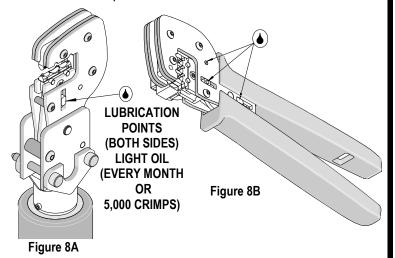
- 1. Remove dust, moisture and other contaminants with a clean brush, or soft, lint-free cloth.
- 2. Do not use any abrasive materials that could damage the tool.

Figure 7

- 3. Make certain all pins; pivot points and bearing surfaces in the tool head 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. The use of light oil, such as 30 weight automotive oil, every 5,000 crimps or monthly, will significantly enhance the tool life and ensure a stable calibration. See Figure 8A or 8B for lubrication points.
- 4. Store the tool in a clean and dry area when not in use.

Miscrimps or Jams for Crimp Hand Tools Only (See Figure 11)

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 rotating the small slotted screw marked with an arrow. See Figure 11.



Warranty

This tool kit is for electrical terminal crimping purposes only. This tool kit 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 kit free of charge. This repair or exchange will not be applicable to altered, misused, or damaged tools.

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

CAUTIONS

- 1. Manually powered hand tools are intended for low volume or field repair. This tool is NOT intended for production use. Repetitive use of this tool should be avoided.
- 2. Insulated rubber handles are not protection against electrical shock.
- 3. Wear eye protection at all times.
- 4. Use only the Molex terminals specified for crimping with this tool.

CAUTION: Repetitive use of this tool should be avoided.

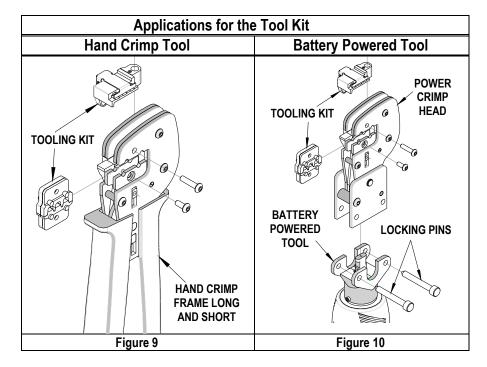
Certification

Molex does not certify or re-certify commercial grade hand tools but rather supplies the following guidelines for customers to re-certify hand tools.

- % This tool is qualified to pull force only. To re-certify, crimp a terminal to a wire, which has been stripped 12.7mm (1/2") long, so there is no crimping of the insulation. Pull the terminal and wire at a rate no faster than 25mm (1.00") per minute. See the Molex web site for the Quality Crimp Handbook for more information on pull testing.
- % When the hand tool is no longer capable of achieving minimum pull force, it should be taken out of service and replaced.
- % This tool is very difficult to disassemble and reassemble. Customer repair is not recommended.

The chart below shows all applications for this Tool Kit.

Tool Kit Order No.	Tool Order no.	Tool Description	Power Head Order No.	Adapter Description	Figure No.	
	63810-1050	Hand Crimp Frame (Short)	N/A	N/A	9	
63827-2170	63810-1000	Hand Crimp Frame (Long)	N/A	N/A	9	
03027-2170	63816-0200	Battery Power Tool (110 V)	63816-0300	Power Crimp Head	10	
	63816-0250	Battery Power Tool (220 V)	63816-0300	Power Crimp Head	10	



WARNING: NEVER operate service, install tool kits, or adjust the Power Crimp Head without proper instruction and without first reading and understanding the instructions in the proper Manual or Specification Sheet. See Chart above for the correct Manual or Specification Sheet.

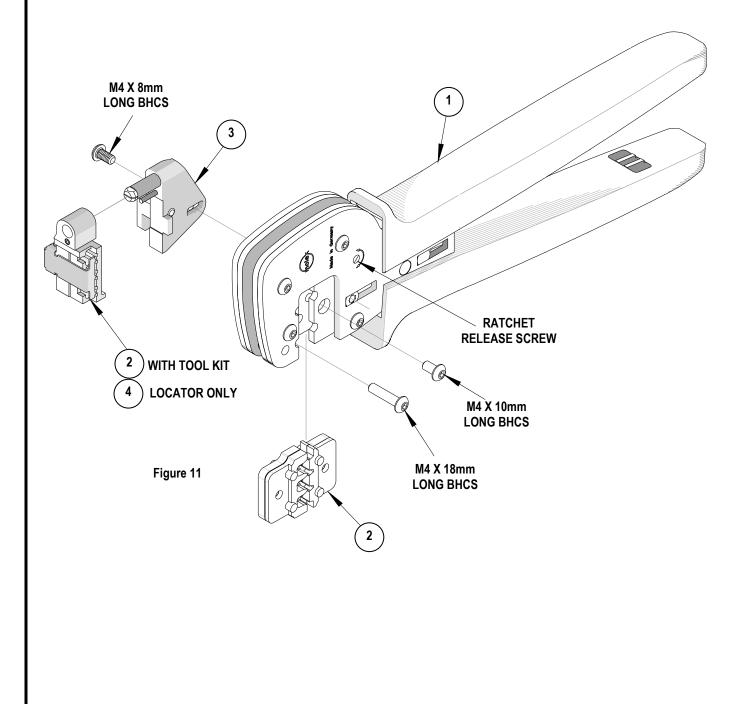
WARNING: NEVER install tooling or service this tool while it is into any power source. Make sure the power is turned off.

CAUTION: Keep fingers away from the crimping area when operating this tool. It may cause severe injury.

CAUTION: Wear safety glasses when operating or serving this tool.

HAND TOOL PARTS LIST

Item Number	Order Number	Description	Quantity	
1	63810-1000	Hand Crimp Frame (Long)	1	
2	63827-2170	Tool Kit with Locator	1	
3	63811-4773	Locator Base	1	
4	63827-2175	Locator (only)	REF	



Release Date: 12-13-13 Revision Date: 12-13-13 **UNCONTROLLED COPY**

