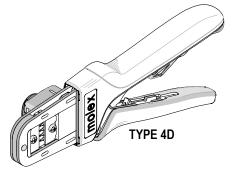


HAND CRIMP TOOL Specification Sheet Order No. 63811-8200



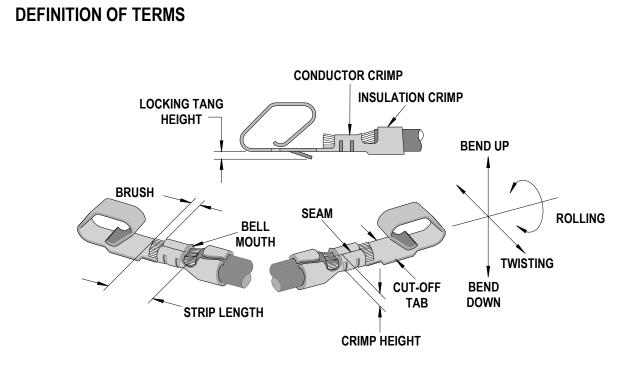
FEATURES

- A full cycle ratcheting hand tool ensures complete crimps
- Ergonomic soft grip handles for comfortable crimping
- A precision user-friendly terminal locator wire stop holds terminals in the proper crimping position
- Right and Left handed applications
- This tool is IPC/WHMA A-620 Class 2 compliant
- This tool is RoHS compliant, however RoHS compliant is not required

SCOPE

Products: 2.54mm (.100) KK® Crimp Terminals, 22-30 AWG.

Terminal	Terminal Order No.		Wi	re Size	Insulation	Diameter	Strip Length		
Series No.	Loose Piece Only 米		AWG	mm²	mm	In.	mm	ln.	
	08-50-0114	39-00-0033		0.35-0.05	1.09-1.57	.040062		.100125	
	08-50-0124	39-00-0107							
	08-50-0160	39-00-0373							
2759	08-50-0275	39-00-0375	22-30				2.54-3.17		
2155	08-51-0102	39-00-0377	22-30	0.00-0.00		.040002	2.04-0.17		
	08-55-0102	39-00-0379							
	08-55-0131	39-00-0381							
	08-56-0110	50-29-1638							
	08-50-0032	40-01-0830							
4809	08-50-0136	97-00-0451	22-30	0.35-0.05	1.02-1.57	.040062	2.54-3.17	.100125	
4009	08-55-0111	97-00-0453							
	08-56-0115								
5159	08-70-0049	08-70-0069	22-28	0.35-0.08	1.20-1.70	.040090	2.54-3.17	.100125	
	08-52-0122	08-65-0814	22-30	0.35-0.05	1.02-1.57	.040062	2.54-3.17	.100125	
6459	08-52-0123	08-65-0816							
	08-65-0812	08-65-0818							
	08-52-0104	40-07-0813			1.02-1.57	.040062	2.54-3.17	.100125	
8088	08-52-0108	97-00-0226	22-30	0.35-0.05					
	08-65-0106	97-00-0228							
40445	08-50-0322	97-00-0445	22-30	0.35.0.05	1.02-1.57	.040062	2.54-3.17	.100125	
40445		97-00-0921	22-30	0.35-0.05				.100125	
41572	41572 08-65-0805 22-30 0.20-0.05 1.02-2.29 .040090 3.17-3.96 .125156								
* Terminals in this chart have a center cut-off tab. They cannot be removed from the reel by manual cutting them. All these terminals are loose piece only.									
An	An applicator must be used when using reel terminals or the terminals will not function properly.								



CONDITIONS:

Terminal	Wire Size		C	onductor C	rimp	Insulation Crimp				
Series No			Height	Width (Ref.)		Height (Ref.)		Width (Ref.)		
Selles NU	AWG	mm ²	mm	In.	mm	In.	mm	In.	mm	ln.
	22	0.35	0.71-0.81	.028032	1.40	.055	1.42	.056	1.64	.065
	24	0.20	0.71-0.81	.028032	1.40	.055	1.39	.054	1.64	.065
2759	26	0.12	0.63-0.73	.025029	1.37	.054	1.33	.052	1.42	.056
	28	0.08	0.63-0.73	.025029	1.37	.054	1.33	.052	1.42	.056
	30	0.05	0.63-0.73	.025029	1.37	.054	1.33	.052	1.42	.056
	22	0.35	0.71-0.81	.028032	1.40	.055	1.42	.056	1.64	.065
	24	0.20	0.71-0.81	.028032	1.40	.055	1.39	.054	1.64	.065
4809	26	0.12	0.63-0.73	.025029	1.37	.054	1.33	.052	1.42	.056
	28	0.08	0.63-0.73	.025029	1.37	.054	1.33	.052	1.42	.056
	30	0.05	0.63-0.73	.025029	1.37	.054	1.33	.052	1.42	.056
	22	0.35	0.71-0.81	.028032	1.40	.055	1.42	.056	1.64	.065
5159	24	0.20	0.71-0.81	.028032	1.40	.055	1.39	.054	1.64	.065
5155	26	0.12	0.63-0.73	.025029	1.37	.054	1.33	.052	1.42	.056
	28	0.08	0.63-0.73	.025029	1.37	.054	1.33	.052	1.42	.056
	22	0.35	0.76-0.86	.030034	1.42	.056	1.45	.057	1.64	.065
	24	0.20	0.73-0.83	.029033	1.42	.056	1.40	.055	1.61	.063
6459	26	0.12	0.69-0.79	.027031	1.37	.054	1.38	.054	1.40	.055
	28	0.08	0.69-0.79	.027031	1.37	.054	1.38	.054	1.40	.055
	30	0.05	0.69-0.79	.027031	1.37	.054	1.38	.054	1.40	.055
	22	0.35	0.76-0.86	.030034	1.42	.056	1.45	.057	1.64	.065
	24	0.20	0.73-0.83	.029033	1.42	.056	1.40	.055	1.61	.063
8088	26	0.12	0.69-0.79	.027031	1.37	.054	1.38	.054	1.40	.055
	28	0.08	0.69-0.79	.027031	1.37	.054	1.38	.054	1.40	.055
	30	0.05	0.69-0.79	.027031	1.37	.054	1.38	.054	1.40	.055

Doc No: ATS-638118200 Revision: D

Release Date: 10-26-07 Revision Date: 08-27-08 **UNCONTROLLED COPY**

Hand Crimp Tool For 2.54mm (.100) KK® Crimp Terminals

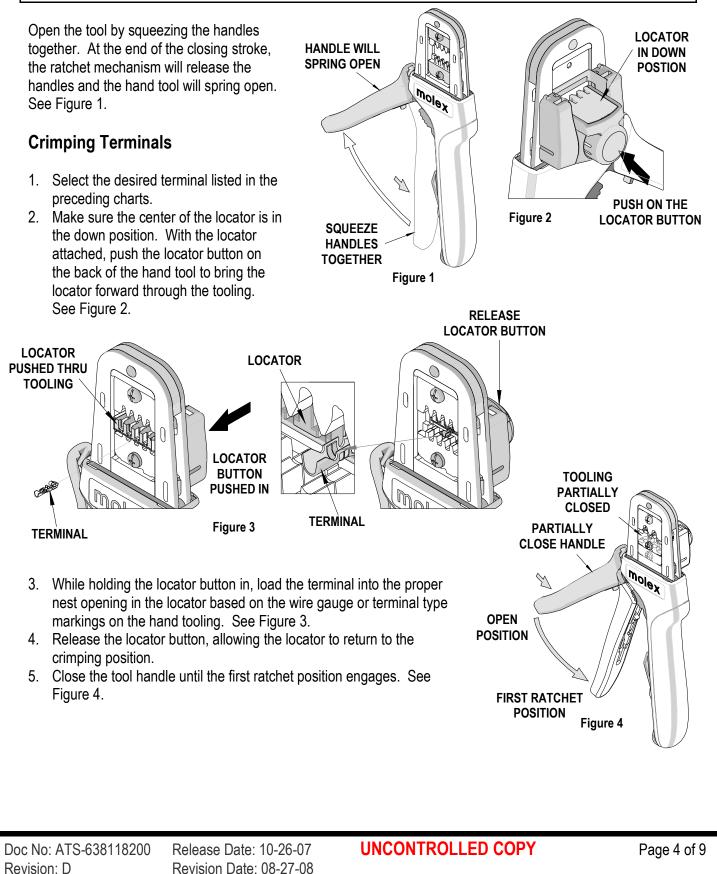
Terminel	Wire Size		C	Insulation Crimp						
Terminal Series No			Height	Width (Ref.)		Height (Ref.)		Width (Ref.)		
Series NO	AWG	mm ²	mm	In.	mm	In.	mm	In.	mm	In.
	22	0.35	0.71-0.81	.028032	1.40	.055	1.42	.056	1.64	.065
40445	24	0.20	0.71-0.81	.028032	1.40	.055	1.39	.054	1.64	.065
	26	0.12	0.63-0.73	.025029	1.37	.054	1.33	.052	1.42	.056
	28	0.08	0.63-0.73	.025029	1.37	.054	1.33	.052	1.42	.056
	30	0.05	0.63-0.73	.025029	1.37	.054	1.33	.052	1.42	.056
	22	0.35	0.76-0.86	.030034	1.42	.056	1.45	.057	1.64	.065
41572	24	0.20	0.73-0.83	.029033	1.42	.056	1.40	.055	1.61	.063
	26	0.12	0.69-0.79	.027031	1.37	.054	1.38	.054	1.40	.055
	28	0.08	0.69-0.79	.027031	1.37	.054	1.38	.054	1.40	.055
	30	0.05	0.69-0.79	.027031	1.37	.054	1.38	.054	1.40	.055

Terminal	Wire Size		Pull Force		Profile				
Series No	wire	Size	Mini	imum	Α	В	С	D	
Series NU	AWG	mm ²	Ν	Lb.	26-30	22-24	22-24	26-30	
	22	0.35	44.8	10.00		Х			
	24	0.20	28.9	6.50		Х			
2759	26	0.12	17.8	4.00	Х				
	28	0.08	11.1	2.50	Х				
	30	0.05	6.7	1.50	Х				
	22	0.35	44.8	10.00			Х		
	24	0.20	28.9	6.50			Х		
4809	26	0.12	17.8	4.00				Х	
	28	0.08	11.1	2.50				Х	
	30	0.05	6.7	1.50				Х	
	22	0.35	39.2	8.00		Х			
5150	24	0.20	28.9	6.50		Х			
5159	26	0.12	17.8	4.00	Х				
	28	0.08	11.1	2.50	Х				
	22	0.35	44.8	10.00		Х			
	24	0.20	28.9	6.50		Х			
6459	26	0.12	17.8	4.00	Х				
	28	0.08	11.1	2.50	Х				
	30	0.05	6.7	1.50	Х				
	22	0.35	44.8	10.00			Х		
	24	0.20	28.9	6.50			Х		
8088	26	0.12	17.8	4.00				Х	
	28	0.08	11.1	2.50				Х	
	30	0.05	6.7	1.50				Х	
	22	0.35	44.8	10.00		Х			
	24	0.20	28.9	6.50		Х			
40445	26	0.12	17.8	4.00	Х				
	28	0.08	11.1	2.50	Х				
	30	0.05	6.7	1.50	Х				
	22	0.35	44.8	10.00		Х			
	24	0.20	28.9	6.50		Х			
41572	26	0.12	17.8	4.00	Х				
	28	0.08	11.1	2.50	Х				
	30	0.05	6.7	1.50	Х				

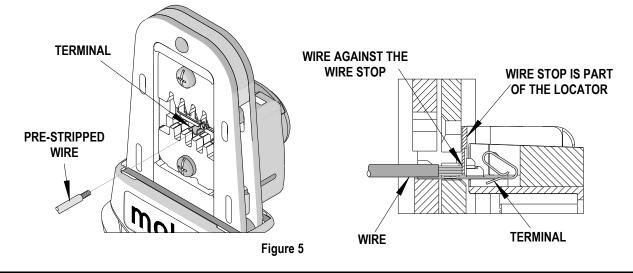
OPERATION

Revision: D

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

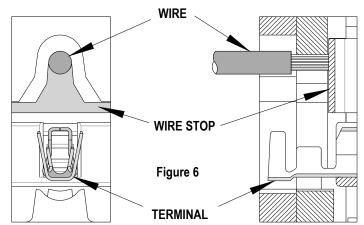


- 6. Insert the properly stripped wire through the terminal and against the wire stop. See Figure 5.
- 7. Crimp the terminal by squeezing the tool handles until the ratchet mechanism cycle has been completed. Release the handles to open the jaws.



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

- 8. Remove the crimped terminal from the terminal locator by pulling on the wire.
- 9. Visually inspect the crimped terminal for proper crimp location.
- On some large O.D. wires, it may not be possible to insert the wire with the tool partially closed. Those wires should be inserted with the hand tool in the open position. Insert the wire above the terminal in the punch and against the wire stop then close the tool. See Figure 6.



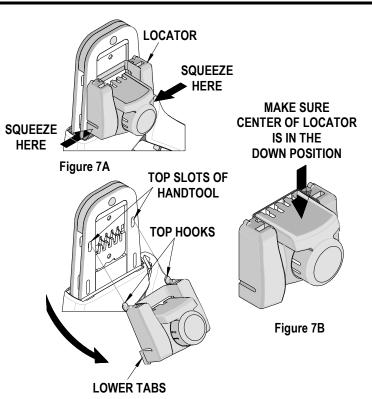
Note:

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

Locator Replacement

See the parts list on the last page of this document for the proper locator order number. Follow the steps below to replace the locator.

- 1. Open the crimp hand tool.
- Squeeze gently on the lower area shown in Figure 7A with your thumb and index finger. The lower tabs of the locator should disengage from the hand tool.
- 3. Lift and pull away from the hand tool. The top locator hooks should slip out of the top slots easily. See Figure 7A.
- 4. To reinstall the new locator, make sure the hand tool is in the open position.
- 5. Press the red insert down as far as it will go as shown in Figure 7B.
- 6. Holding onto the lower part of the locator with your thumb and index finger, insert the locators top hooks (2) into the hand tool top slots.

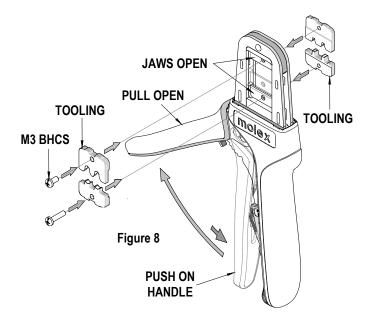


7. Rotate the locator down and press the lower tabs into the two bottom slots of the hand tool. To secure the locator into place, the lower tabs must snap into place on the hand tool frame.

Right or Left Hand Operation

This hand tool has an added feature that can be converted from a right handed application to a left handed application. It is necessary to reverse the tooling if using the left handed application along with the locator. Follow the steps below:

- 1. The locator must be removed before reversing the tooling.
- 2. Remove the M3 BHCS which is holding the upper tooling.
- Flip the upper tooling to the opposite side and replace the M3 BHCS. Make sure the small markings on the front and back of the hand tool frame match up and are on the outside of the hand tool frame. See Figure 8 and 9.

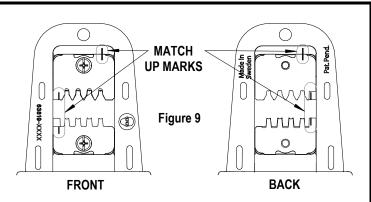


- 4. Do the same thing with the lower tooling and tighten the M3 screws. Be sure the small markings line up.
- 5. Reinstall the locator by following the Instructions in the locator replacement section.

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.



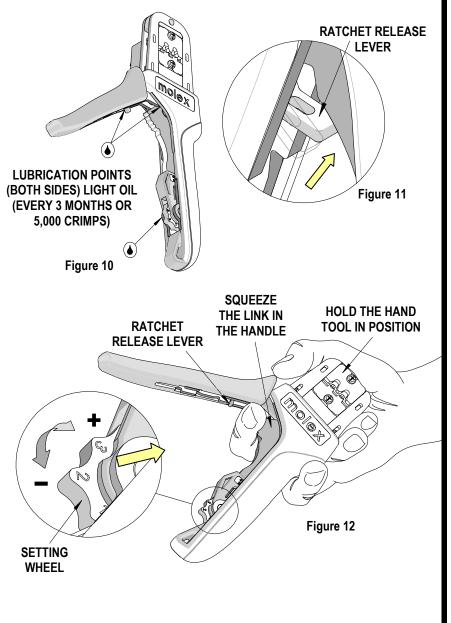
- 3. Make certain all pins; pivot points and bearing surfaces are protected with a thin coat of high quality machine oil. Do not oil excessively. The tool was engineered for durability but like any other equipment it needs cleaning and lubrication for a maximum service life of trouble free crimping. Light oil (such as 30 weight automotive oil) used at the oil points, every 5,000 crimps or 3 months, will significantly enhance the tool life.
- Wipe excess oil from hand tool, particularly from crimping area. Oil transferred from the crimping area onto certain terminations may affect the electrical characteristics of an application.
- 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 up on the ratchet release lever in the movable handle. See Figure 11.

How to Adjust Tool Preload (See Figure 12)

This hand tool is factory preset to 25-45 LBS. preload. It may be necessary over the life of the tool 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:



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- 1. Hold the hand tool in the palm of your hand as shown in Figure 10. Using the index finger squeeze the link towards the top of the hand tool frame. This will release the preload adjustment wheel.
- 2. Rotate the setting wheel counter-clockwise (CCW) to increase handle force. The numbers will display higher. To decrease handle force rotate the setting wheel clockwise (CW).
- 3. Release the link to lock the setting wheel in place.
- 4. Check the crimp specifications or conduct a pull test after tool handle preload 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 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: 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.

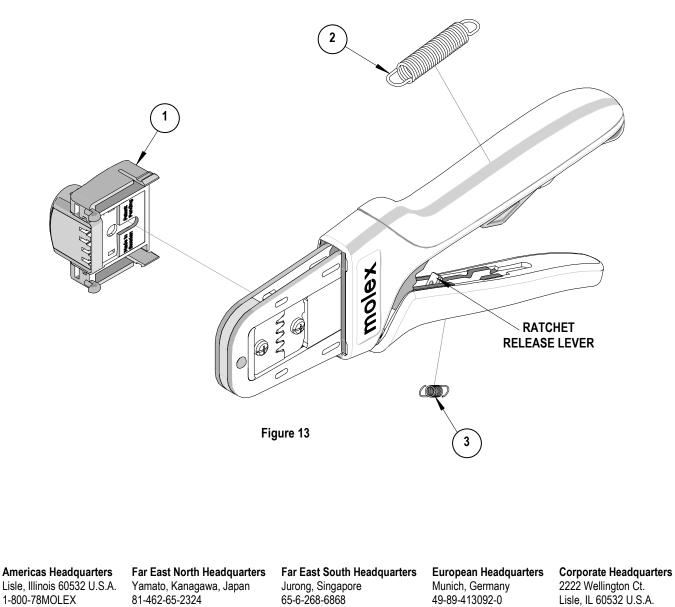
Certification

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

- % This tool is qualified to pull force only. See the Molex web site for the Quality Crimp Handbook for more information on pull testing.
- % If the tool does not meet minimum pull force values, handle preload should be increased and the pull test rerun, (See How to Adjust Preload).
- % When the hand tool is no longer capable of achieving minimum pull force, it should be taken out of service and replaced.

PARTS LIST

Item Number	Order Number	Description	Quantity
REF	63811-8200	Hand Crimp Tool	Figure 13
1	63811-8275	Locator Assembly	1
2	63810-0104	Spring, Return	1
3	63810-0105	Spring, Ratchet	1



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