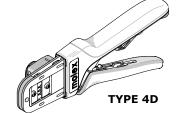
Order Number 200218-7000





Application Tooling Specification

FEATURES

- A full cycle ratcheting hand tool ensures complete crimps
- Ergonomic soft grip handles for comfortable crimping
- A precision user-friendly terminal locator holds terminals in the proper crimping position
- Right- or left-handed operation
- Dies and locator from this tool can be used in the Battery Powered Tool Order No. 63816-0270 (110 V) or 63816-0280 (220 V), with the use of the 63816-0800 Crimp Head
- This tool is IPC/WHMA-A-620 Class 2 compliant, as indicated on page 3

SCOPE

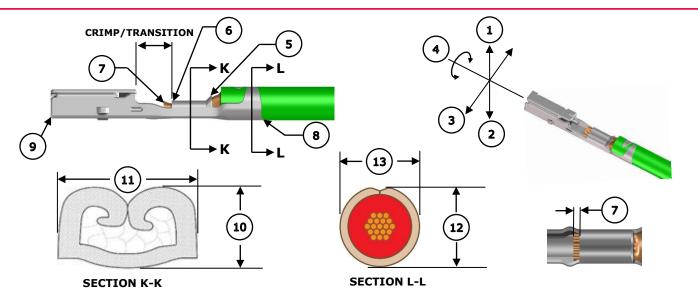
Products: SL Crimp Terminals, 24-30 AWG.

Terminal	Terminal Order No.			Wire Size	•Insulation Diameter		Strip Length			
Series No.	Loose Piece		*Reel		AWG	mm	In.	mm	In.	
50083	50083-8100	50083-8160	50083-8000	50083-8060	24-30	1.01-1.52	.040060	2.54-3.17	.100125	
30063	50083-8114	50083-8170	50083-8014	50083-8070	24-30		.040060			
	50087-8100	50087-8130	50087-8000	50087-8060				10060 2.54-3.17	.100125	
50087	50087-8114	50087-8160	50087-8014	-8014 50087-8099 24-30	24-30	1.01-1.52	.040060			
			50087-8030							
	16-02-0108	40-08-0872	16-02-0077	16-02-0105	24-30	1.01-1.52				
70021	16-02-0109		16-02-0078	40-08-0871			.040060	2.54-3.17	.100125	
	16-02-0110		16-02-0091							
	16-02-0096	70058-0096	16-02-0069	16-02-0150		1.01-1.52	.040060	2.54-3.17	.100125	
70058	16-02-0097	70058-0097	16-02-0082	70058-0069						
	16-02-0098	70058-4096	16-02-0083	70058-0082	24-30					
	16-02-0140		16-02-0137	70058-0083						
	16-02-0151		16-02-0139	70058-4069						
71851	16-02-1109	16-02-0117	16-02-1112	16-02-0119	24-30	1.01-1.52	.040060	2.54-3.17	.100125	
/1031	16-02-1116	16-02-1117	16-02-1113	71851-0119	24-30	1.01-1.32	.040000	2.54-5.17	.100123	
*Customer to cut off terminal from reel. See crimp specifications for desired terminal series.										

CAUTION: Lubrication must be applied to the conductor punch to prevent terminal sticking.

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DEFINITION OF TERMS



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

CRIMP SPECIFICATIONS

The crimp specifications are as follows:

Feature	Requirement							
1. Bend Up	3° Max							
2. Bend Down	3° Max							
3. Twist	3° Max							
4. Roll	8° Max							
5. Bell Mouth Rear	0.20-0.50mm (.008020")							
6. Bell Mouth Front	Not Applicable							
7. Conductor Brush	0.00-1.00mm (.000039")							
8. Cut-Off Tab Rear	For Terminal Series 50083 and 50087: 0.30mm (.012") Max; for Terminal Series 70021: 0.13mm (.005"); for Terminal Series 70058 and 71851: 0.08mm (.003") Max							
9. Cut-Off Tab Front	For Terminal Series 50 70058 and 71851: 0.1			.006") Max; for	Terminal Serie	s 70021,		
	Terminal Series No.	Wire Size	10. Crim	p Height	11. Crimp V	Vidth (Ref.)		
	50083	24 AWG	0.79-0.87mm	.031034 In.	1.05mm	.041 In.		
		26 AWG	0.74-0.81mm	.029032 In.	1.05mm	.041 In.		
		28 AWG	0-71-0.78mm	.028031 In.	1.05mm	.041 In.		
		30 AWG	0-67-0.74mm	.026029 In.	1.05mm	.041 In.		
	50087	24 AWG	0.79-0.87mm	.031034 In.	1.05mm	.041 In.		
		26 AWG	0.74-0.81mm	.029032 In.	1.05mm	.041 In.		
		28 AWG	0-71-0.78mm	.028031 In.	1.05mm	.041 In.		
		30 AWG	0-67-0.74mm	.026029 In.	1.05mm	.041 In.		
	70021	24 AWG	0.79-0.84mm	.031033 In.	1.05mm	.041 In.		
Conductor Crimp		26 AWG	0.74-0.79mm		1.05mm	.041 In.		
		28 AWG	0-71-0.76mm	.028030 In.	1.05mm	.041 In.		
		30 AWG	0-66-0.71mm	.026028 In.	1.05mm	.041 In.		
	70058	24 AWG	0.79-0.84mm		1.05mm	.041 In.		
		26 AWG	0.74-0.79mm	.029031 In.	1.05mm	.041 In.		
		28 AWG	0-71-0.76mm	.028030 In.	1.05mm	.041 In.		
		30 AWG	0-66-0.71mm	.026028 In.	1.05mm	.041 In.		
		24 AWG	0.79-0.84mm	.031033 In.	1.05mm	.041 In.		
	71851	26 AWG	0.74-0.79mm	.029031 In.	1.05mm	.041 In.		
	/ 1031	28 AWG	0-71-0.76mm	.028030 In.	1.05mm	.041 In.		
		30 AWG	0-66-0.71mm	.026028 In.	1.05mm	.041 In.		

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	Terminal Series No.	Wire Size	12. Crimp Ho	Crimp Height (Ref.)		13. Crimp Width (Ref.)		
		24 AWG	1.60mm	.063 In.	1.60mm .0		.063	In.
		26 AWG	1.58mm	.062 In.	1.58mm		.062	2 In.
	50083	28 AWG	1.55mm	.061 In.	1.58mm		.062 In.	
		30 AWG	1.55mm	.061 In.	1.57mm			2 In.
	50087	24 AWG	1.60mm	.063 In.	1.60	1.60mm		3 In.
		26 AWG	1.58mm	.062 In.	1.58	3mm	.062	2 In.
		28 AWG	1.55mm	.061 In.	1.58	3mm	.062	2 In.
		30 AWG	1.55mm	.061 In.	1.57	7mm	.062	2 In.
		24 AWG	1.60mm	.063 In.	1.60mm		.063	In.
Insulation Crimp		26 AWG	1.58mm	.062 In.	1.58mm		.062 In.	
	70021	28 AWG	1.55mm	.061 In.	1.58mm		.062 In.	
		30 AWG	1.55mm	.061 In.	1.57	7mm	.062	2 In.
		24 AWG	1.60mm	.063 In.	1.60mm		.063 In.	
		26 AWG	1.58mm	.062 In.	1.58	3mm	.062	2 In.
	70058	28 AWG	1.55mm	.061 In.	1.58	3mm	.062	2 In.
		30 AWG	1.55mm	.061 In.	1.57	7mm	.062	2 In.
	71851	24 AWG	1.60mm	.063 In.			3 In.	
		26 AWG	1.58mm	.062 In.	1.58mm		.062 In.	
		28 AWG	1.55mm	.061 In.	1.58mm		.062 In.	
		30 AWG	1.55mm	.061 In.	1.57mm		.062 In.	
			Minimum Force		Profile			
	Torminal Sories No.	Wire Size	Minimur	m Earca				
	Terminal Series No.		Minimur	m Force	Α	В	С	D
	Terminal Series No.	Wire Size 24 AWG	Minimur 29.4 N	n Force 6.61 Lb.	Α	В		D
				T	A	B X	С	D
	Terminal Series No. 50083	24 AWG	29.4 N	6.61 Lb.	A		С	X
		24 AWG 26 AWG	29.4 N 19.6 N	6.61 Lb. 4.41 Lb.	X		С	
		24 AWG 26 AWG 28 AWG	29.4 N 19.6 N 9.8 N	6.61 Lb. 4.41 Lb. 2.20 Lb.			С	
	50083	24 AWG 26 AWG 28 AWG 30 AWG	29.4 N 19.6 N 9.8 N 4.9 N	6.61 Lb. 4.41 Lb. 2.20 Lb. 1.10 Lb. 6.61 Lb. 4.41 Lb.			X	
		24 AWG 26 AWG 28 AWG 30 AWG 24 AWG	29.4 N 19.6 N 9.8 N 4.9 N 29.4 N	6.61 Lb. 4.41 Lb. 2.20 Lb. 1.10 Lb. 6.61 Lb.		X	X	
	50083	24 AWG 26 AWG 28 AWG 30 AWG 24 AWG 26 AWG	29.4 N 19.6 N 9.8 N 4.9 N 29.4 N 19.6 N	6.61 Lb. 4.41 Lb. 2.20 Lb. 1.10 Lb. 6.61 Lb. 4.41 Lb.		X	X	X
Pull Force	50083	24 AWG 26 AWG 28 AWG 30 AWG 24 AWG 26 AWG 28 AWG	29.4 N 19.6 N 9.8 N 4.9 N 29.4 N 19.6 N	6.61 Lb. 4.41 Lb. 2.20 Lb. 1.10 Lb. 6.61 Lb. 4.41 Lb. 2.20 Lb.	X	X	X	X
Pull Force	50083	24 AWG 26 AWG 28 AWG 30 AWG 24 AWG 26 AWG 28 AWG 30 AWG	29.4 N 19.6 N 9.8 N 4.9 N 29.4 N 19.6 N 9.8 N 4.9 N	6.61 Lb. 4.41 Lb. 2.20 Lb. 1.10 Lb. 6.61 Lb. 4.41 Lb. 2.20 Lb. 1.10 Lb.	X	X	X	X
Pull Force	50083	24 AWG 26 AWG 28 AWG 30 AWG 24 AWG 26 AWG 28 AWG 30 AWG 24 AWG	29.4 N 19.6 N 9.8 N 4.9 N 29.4 N 19.6 N 9.8 N 4.9 N 28.9 N 17.8 N	6.61 Lb. 4.41 Lb. 2.20 Lb. 1.10 Lb. 6.61 Lb. 4.41 Lb. 2.20 Lb. 1.10 Lb. 6.50 Lb.	X	X	X	X
Pull Force	50083	24 AWG 26 AWG 28 AWG 30 AWG 24 AWG 26 AWG 28 AWG 30 AWG 24 AWG 26 AWG	29.4 N 19.6 N 9.8 N 4.9 N 29.4 N 19.6 N 9.8 N 4.9 N 28.9 N	6.61 Lb. 4.41 Lb. 2.20 Lb. 1.10 Lb. 6.61 Lb. 4.41 Lb. 2.20 Lb. 1.10 Lb. 6.50 Lb. 4.00 Lb.	X	X	X	X
Pull Force	50083	24 AWG 26 AWG 30 AWG 24 AWG 26 AWG 30 AWG 24 AWG 24 AWG 26 AWG 24 AWG 26 AWG 28 AWG 28 AWG	29.4 N 19.6 N 9.8 N 4.9 N 29.4 N 19.6 N 9.8 N 4.9 N 28.9 N 17.8 N 11.1 N 6.7 N	6.61 Lb. 4.41 Lb. 2.20 Lb. 1.10 Lb. 6.61 Lb. 4.41 Lb. 2.20 Lb. 1.10 Lb. 6.50 Lb. 4.00 Lb. 2.50 Lb.	X	X	X	X
Pull Force	50083 50087 70021	24 AWG 26 AWG 30 AWG 24 AWG 26 AWG 28 AWG 30 AWG 24 AWG 26 AWG 28 AWG 30 AWG	29.4 N 19.6 N 9.8 N 4.9 N 29.4 N 19.6 N 9.8 N 4.9 N 28.9 N 17.8 N 11.1 N	6.61 Lb. 4.41 Lb. 2.20 Lb. 1.10 Lb. 6.61 Lb. 4.41 Lb. 2.20 Lb. 1.10 Lb. 6.50 Lb. 4.00 Lb. 2.50 Lb.	X	X	X	X
Pull Force	50083	24 AWG 26 AWG 30 AWG 24 AWG 26 AWG 30 AWG 24 AWG 26 AWG 30 AWG 24 AWG 24 AWG 26 AWG 28 AWG 28 AWG 30 AWG 28 AWG 30 AWG 28 AWG 30 AWG 28 AWG	29.4 N 19.6 N 9.8 N 4.9 N 29.4 N 19.6 N 9.8 N 4.9 N 28.9 N 17.8 N 11.1 N 6.7 N 28.9 N 17.8 N	6.61 Lb. 4.41 Lb. 2.20 Lb. 1.10 Lb. 6.61 Lb. 4.41 Lb. 2.20 Lb. 1.10 Lb. 6.50 Lb. 4.00 Lb. 2.50 Lb. 1.50 Lb. 6.50 Lb.	X	X	X	X
Pull Force	50083 50087 70021	24 AWG 26 AWG 30 AWG 24 AWG 26 AWG 28 AWG 30 AWG 24 AWG 26 AWG 28 AWG 28 AWG 30 AWG 24 AWG 26 AWG	29.4 N 19.6 N 9.8 N 4.9 N 29.4 N 19.6 N 9.8 N 4.9 N 28.9 N 17.8 N 11.1 N 6.7 N 28.9 N 17.8 N	6.61 Lb. 4.41 Lb. 2.20 Lb. 1.10 Lb. 6.61 Lb. 4.41 Lb. 2.20 Lb. 1.10 Lb. 6.50 Lb. 4.00 Lb. 2.50 Lb. 1.50 Lb. 4.00 Lb.	X	X	X	X
Pull Force	50083 50087 70021	24 AWG 26 AWG 30 AWG 24 AWG 26 AWG 30 AWG 24 AWG 26 AWG 30 AWG 24 AWG 24 AWG 26 AWG 28 AWG 28 AWG 30 AWG 28 AWG 30 AWG 28 AWG 30 AWG 28 AWG	29.4 N 19.6 N 9.8 N 4.9 N 29.4 N 19.6 N 9.8 N 4.9 N 28.9 N 17.8 N 11.1 N 6.7 N 28.9 N 17.8 N	6.61 Lb. 4.41 Lb. 2.20 Lb. 1.10 Lb. 6.61 Lb. 4.41 Lb. 2.20 Lb. 1.10 Lb. 6.50 Lb. 4.00 Lb. 2.50 Lb. 4.00 Lb. 2.50 Lb. 4.00 Lb. 2.50 Lb.	X	X	X	X
Pull Force	50083 50087 70021 70058	24 AWG 26 AWG 30 AWG 24 AWG 26 AWG 28 AWG 30 AWG 24 AWG 30 AWG 24 AWG 26 AWG 26 AWG 28 AWG 30 AWG 28 AWG 30 AWG 30 AWG 30 AWG 30 AWG	29.4 N 19.6 N 9.8 N 4.9 N 29.4 N 19.6 N 9.8 N 4.9 N 28.9 N 17.8 N 11.1 N 6.7 N 28.9 N 17.8 N	6.61 Lb. 4.41 Lb. 2.20 Lb. 1.10 Lb. 6.61 Lb. 4.41 Lb. 2.20 Lb. 1.10 Lb. 6.50 Lb. 1.50 Lb. 4.00 Lb. 2.50 Lb. 1.50 Lb. 4.00 Lb. 2.50 Lb.	X	X	X X X	X
Pull Force	50083 50087 70021	24 AWG 26 AWG 30 AWG 24 AWG 26 AWG 28 AWG 30 AWG 24 AWG 30 AWG 24 AWG 26 AWG 26 AWG 28 AWG 30 AWG 24 AWG 30 AWG 24 AWG 24 AWG 24 AWG 24 AWG 26 AWG 27 AWG 28 AWG 28 AWG 28 AWG 28 AWG 30 AWG 24 AWG	29.4 N 19.6 N 9.8 N 4.9 N 29.4 N 19.6 N 9.8 N 4.9 N 28.9 N 17.8 N 11.1 N 6.7 N 28.9 N 17.8 N 11.1 N 6.7 N 28.9 N	6.61 Lb. 4.41 Lb. 2.20 Lb. 1.10 Lb. 6.61 Lb. 4.41 Lb. 2.20 Lb. 1.10 Lb. 6.50 Lb. 1.50 Lb. 1.50 Lb. 4.00 Lb. 2.50 Lb. 1.50 Lb. 6.50 Lb.	X	X	X X X	X

To achieve IPC/WHMA-A-620 Class 2 crimps, the following overall wire insulation diameter ranges are recommended:

Profile A: 1.10-1.25mm (.043-.049") **Profile B:** 1.15-1.35mm (.045-.053") **Profile C:** 1.25-1.40mm (.049-.055") **Profile D:** 1.10-1.30mm (.043-.051")

Tool Qualification Notes

- 1. (Ref) means that the dimension provided is approximate because of the wide range of wires, conductor stranding, insulation diameter and insulation hardness.
- 2. An occasional conductor crimp height measurement should be performed. It must lie between the minimum and maximum crimp height specification.
- 3. Pull force should be measured with no influence from the insulation crimp. To ensure this, strip the wire long enough so the terminal's insulation grips do not contact the wire insulation.

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Notes

- 1. This tool should only be used for the terminals and wire gauges specified on this sheet.
- 2. Variations in tools, terminals, wire stranding and insulation types may affect crimp height.
- 3. This tool is intended for AWG conductor sizes. It may not give good insulation crimp support for insulation sizes outside of the specified range.
- 4. Molex does not repair hand tools. See warranty on page 8. The replacement parts listed are the only parts available for repair. If the handles or crimp tooling become damaged or worn, a new tool must be purchased.
- 5. Conductor crimp height should be used as the final criterion for an acceptable crimp. Refer to Molex Quality Crimping Handbook 63800-0029 for additional information on crimping and crimp testing.
- 6. Molex does not certify hand crimp tools.

Note

The crimp height chart is provided with this document as reference only. Due to the wide range of wires, strands, insulation diameters and insulation hardness available, actual crimp height measurements may vary slightly. An occasional destructive pull force test should be performed to verify the conductor crimp. The pull force value must exceed the minimum pull force specifications listed.

OPERATION

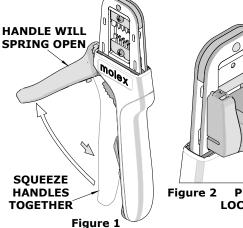


CAUTION: Crimp only the Molex terminals listed in the scope for this tool. Do not crimp hardened objects as damage can occur to the tool frame or crimp dies.

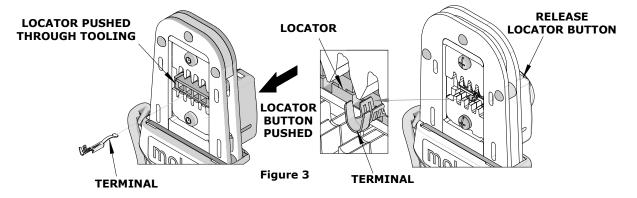
Open the tool by squeezing the handles together. At the end of the closing stroke, the ratchet mechanism will release the handles and the hand tool will spring open. See Figure 1.

Crimping Terminals

- Select the desired terminal listed from the preceding charts. Then, install it in the proper locator. See chart above and see Locator Replacement section on page 5.
- Make sure the center of the locator is in the down position. With the locator attached, push the locator button on the back of the hand tool to bring the locator forward through the tooling. See Figure 2.
- 3. While holding in the locator button, load the terminal into the proper nest opening in the locator based on the wire gauge or terminal type markings on the hand tooling. See Figure 3.

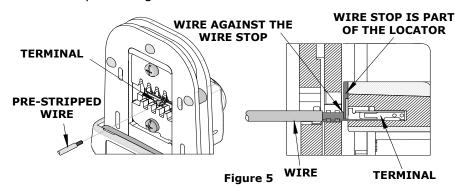


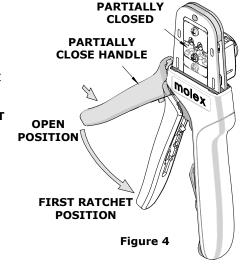




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- 4. Release the locator button, allowing the locator to return to the crimping position.
- 5. Close the tool handle until the first ratchet position engages. See Figure 4.
- 6. Insert the properly stripped wire through the terminal and against the wire stop. See Figure 5.





TOOLING

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.
- 10. 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, and then close the tool. See Figure 6.

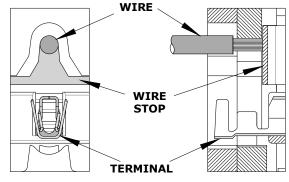
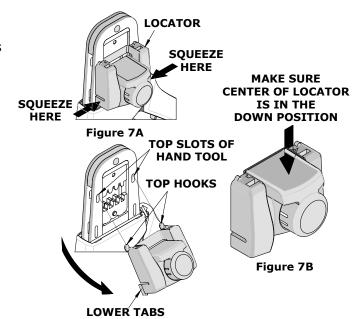


Figure 6

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 hand crimp 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 center of the locator down as far as it will go as shown in Figure 7B.



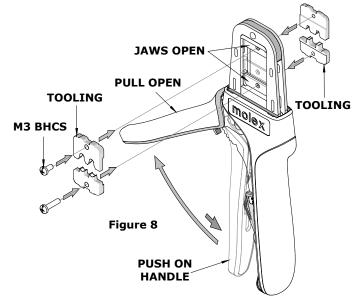
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- 6. Holding onto the lower part of the locator with your thumb and index finger, insert the locator's top hooks into the hand tool's top slots.
- 7. Rotate the locator down and press the lower tabs into the two bottom slots of the hand tool. To secure the locator into place, the lower tabs must snap into place on the hand tool

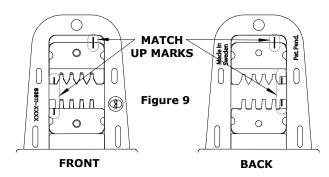
Right- or Left-Handed Operation

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 along with the locator if using the left-handed application. 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.
- 3. 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 Figures 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.



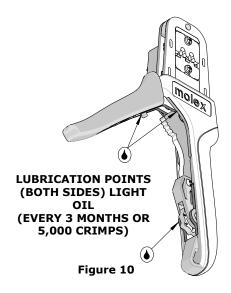
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Revision: A

MAINTENANCE

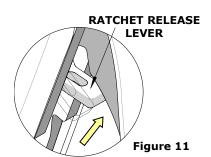
It is recommended that each operator of the tool be made aware of and responsible for the following maintenance steps:

- 1. Remove dust, moisture and other contaminants with a clean brush or a 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. See Figure 10.
- 4. Wipe excess oil from the hand tool, particularly from the crimping area. Oil transferred from the crimping area onto certain terminations may affect the electrical characteristics of an application.
- 5. When the 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

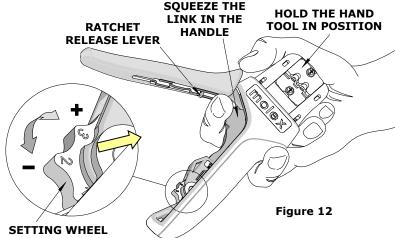
Should this tool ever become stuck or jammed in a partially closed position, **do not** force the handles open or closed. The tool will open easily by lifting upward on the ratchet release lever in the movable handle. See Figure 11.



How to Adjust Tool Preload (See Figure 12)

This hand tool is factory preset to 25-45 pounds handle 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:

- Hold the hand tool in the palm of your hand as shown in Figure 12. Using your index finger, squeeze the link toward the top of the hand tool frame. This will release the preload adjustment wheel.
- Rotate the setting wheel counterclockwise (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.



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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, Molex 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 use 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. To re-certify, crimp a terminal to a wire that has been stripped 12.7mm (.50") 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 website 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 should be 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.

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PARTS LIST

Item Number	Order Number	Description	Quantity
REF	200218-7000	Hand Crimp Tool	Figure 13
1	200218-7075	Locator Assembly	1
2	63810-0104	Spring, Return	1
3	63810-0105	Spring, Ratchet	1

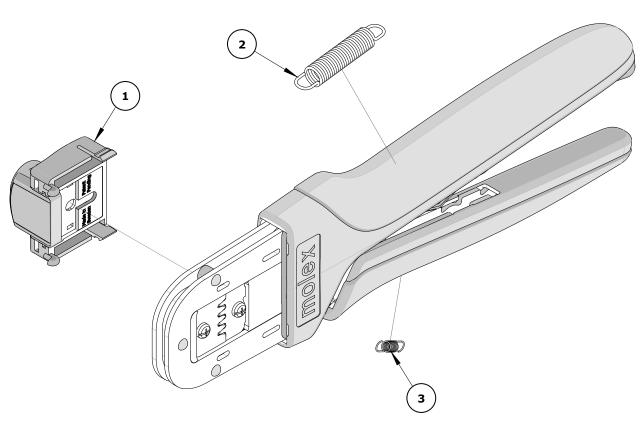


Figure 13

Application Tooling Support

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