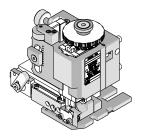
Order Number 63903-4800





Application Tooling Specification

FEATURES

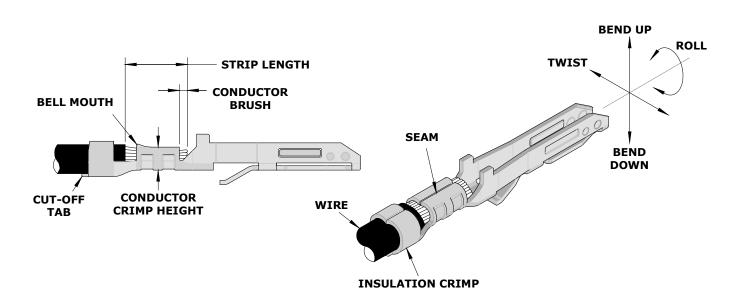
- Directly adapts to most automatic wire processing machines
- Quick punch removal with the push of a button for fast and easy tooling change
- Applicator designed to industry-standard mounting and 135.80mm (5.346") shut height
- Quick setup time; plus, the crimp height, track and feed adjustments can be set without removing the applicator from the press
- Fine adjustment allows users to achieve target with little effort by adjusting in increments of 0.015mm (.0006") for conductor crimp height and 0.063mm (.0025") for insulation height
- Independent adjustment rings allow users to quickly adjust the conductor or insulation crimp height without affecting each other

SCOPE

Products: Nano-Fit Terminals, 24-26 AWG, UL1007 Wires.

Terminal Series No.	Tourning! Order No	Wire Size		× Insulatio	n Diameter	Strip Length			
Terminal Series No.	Terminal Order No.	AWG	mm²	mm	In.	mm	In.		
	105300-1100		Ι	1.20-1.45	.047057	2.50-3.50	.098138		
	105300-1200								
105300	105300-1300	24-26							
	105300-1400								
	105300-1810								
× This applicator will crimp large wire insulation diameter UL1007 shown above.									
Applicator 63903-2500 should be used for smaller insulation diameter UL1061.									
Note: Oiler (63801-7240) required to crimp terminals. See 63800-4900 FineAdjust manual.									

DEFINITION OF TERMS



CRIMP SPECIFICATION

Terminal Series No.	Bell N	louth	Cut-Off Tab	Maximum	Conductor Brush		
	mm	In.	mm	In.	mm	In.	
105300	0.15-0.30	.006012	0.17	.007	0.25-1.00	.010039	

	Bend Up Bend Down		Twist	Roll	Punch Width (Ref)					
Terminal Series No.	Denia op	Beila Beili		Non	Conductor		Insulation		Seam	
	Degree Max.		Degree Max.		mm	In.	mm In.		1	
105300	3	3	4	8	1.10	.043	1.60	.063	Seam shall not be open and no wire allowed out of the crimping area	

After crimping, the crimp profiles should measure the following:

Terminal Wire Size				Cond	uctor		Insulation					Pull Force	
Series	Series Wire Size		Crimp Height		Crimp Width (Ref)		Crimp Height (Ref)		Crimp Width (Ref)		Minimum		
No.	AWG	mm ²	mm	In.	mm In.		mm	In.	mm	In.	Ν	Lb.	
105200	24	_	0.70-0.75	.028030	1.10-1.20	.043047	1.65-1.75	.065069	1.60-1.80	.063071	22.3	5	
105300	26	Ι	0.65-0.70	.026028	1.10-1.20	.043047	1.60-1.70	.063067	1.60-1.80	.063071	13.4	3	

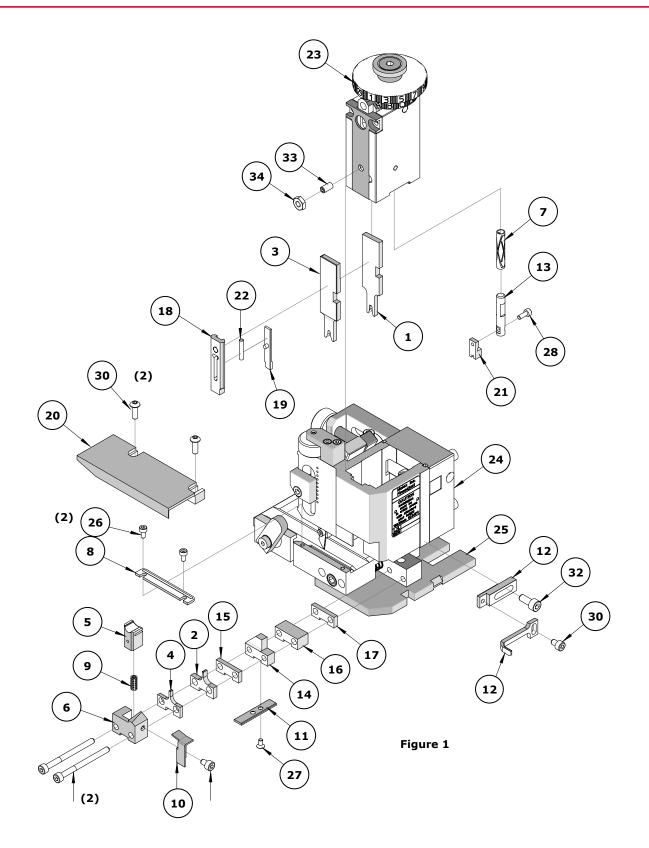
Tool Qualification Notes

- 1. Pull force should be measured with no influence from the insulation crimp.
- 2. The above specifications are guidelines to an optimum crimp.
- 3. Insulation crimp heights can be adjusted accordingly to the wire insulation OD to meet IPC/WHMA-A-620 requirements.
- 4. Oiler (63801-7240) required to crimp terminals to improve tooling life. See 63800-4900 FineAdjust manual.

PARTS LIST

	FineAdjust Applicator 63903-4800									
Item	Order No. Engineering No. Description									
		Perish	able Tooling							
	63903-4870	63903-4870	Tool Kit (All "Y" Items)	REF						
1	63457-0107	63457-0107	Conductor Punch	1 Y						
2	63455-0131	63455-0131	Conductor Anvil	1 Y						
3	63454-0153	63454-0153	Insulation Punch	1 Y						
4	63456-0103	63456-0103	Insulation Anvil	1 Y						
5	63443-0005	63443-0005	Cut-Off Plunger	1 Y						
6	63443-0012	63443-0012	Front Plunger Retainer	1 Y						
		Other	Components							
7	11-17-0022	1739-21	Terminal Hold-Down Spring	1						
8	11-18-4083	60707-8	Feed Guide	1						
9	11-24-1067	4996-4	Cut-off Plunger Spring	1						
10	63443-0009	63443-0009	Scrap Chute	1						
11	63443-0025	63443-0025	Key	1						
12	63443-0090	63443-0090	Wire Stop	1						
13	63443-0093	63443-0093	Shank, Terminal Hold-Down	1						
14	63443-1720	63443-1720	Height Spacer (19.00mm)	1						
15	63443-2203	63443-2203	Coarse Spacer (3mm)	1						
16	63443-2213	63443-2213	Coarse Spacer (13.00mm)	1						
17	63443-2308	63443-2308	Fine Spacer (3.40mm)	1						
18	63443-2806	63443-2806	Front Plunger Striker	1 1						
19	63443-2907	63443-2907								
20	63443-6108	63443-6108	Rear Cover	1						
21	63443-7112	63443-7112	Terminal Hold-Down	1						
22	63600-1057	63600-1057	Wire Hold-Down Spring	1						
			Frame							
23	63800-4901	63800-4901	Тор	1						
24	63801-3281	63801-3281	Base	1						
25	63801-4650	63801-4650	Track	1						
		Н	ardware							
26	—	—	M3 by 6 Long SHCS	2*						
27	—	—	M3 by 6 Long FHCS	1*						
28	—	_	M3 by 8 Long SHCS	1*						
29		_	M4 by 6 Long SHCS	2* 2*						
30	_	_	— M4 by 12 Long BHCS							
31	—	_	 M4 by 50 Long SHCS 2 							
32	—	_	 M5 by 12 Long SHCS #10-32 by 3/8"Long Flat Point SSS 							
33	—	 #10-32 by 3/8"Long Flat Point SSS 								
34	—	_	#10-32 Hex Jam Nut	1*						
		* Available from an	industrial supply company.							

ASSEMBLY DRAWING



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NOTES

- 1. Molex recommends that an extra perishable tooling kit be maintained at your facility.
- 2. Verify tooling alignment by manually cycling the press and applicator before crimping under power. Check that all screws are tight.
- 3. Slugs, terminals, dirt and oil should be kept clear of work area.
- 4. Wear safety glasses at all times.
- 5. For recommended maintenance, refer to the FineAdjust manual.

CAUTION: This applicator should only be used in a press with a shut height of 135.80mm (5.346"). Tooling damage could result at a lower setting.

CAUTION: To prevent injury, never operate this applicator without the guards supplied with the press or wire-processing machine in place. Reference the press or wire processing manufacturer's instruction manual.

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

Application Tooling Support

E-Mail: toolingsupport@molex.com **Website:** www.molex.com/applicationtooling

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