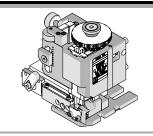
FineAdjust Applicator



Application Tooling Specification Sheet



Order No. 63903-2400

FEATURES

- 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 .015mm (.0006") for conductor crimp height and .063mm (.0025") for insulation height
- Independent adjustment rings allow users to quickly adjust the conductor or insulation crimp height without affecting each other
- Directly adapts to most automatic wire processing machines

SCOPE

<u>Products:</u> Nano-Fit Terminals, 20-22 AWG, UL1061 insulation.

Terminal Series No.	Terminal Order No.	Wire Size		★ Insulatio	n Diameter	Strip Length		
Terrinia Series No.	Terminal Order No.	AWG	mm²	mm	ln.	mm	ln.	
	105300-2100	20-22	_	1.05-1.60	.041063	2.50-3.50	.100140	
105300	105300-2200							
	105300-2300							

[★] Use this insulation range to achieve IPC-A-620 Class 2 insulation crimps.

DEFINITION OF TERMS BEND UP ROLLING TWISTING STRIP LENGTH **CONDUCTOR BELL MOUTH BRUSH SEAM BEND DOWN** CONDUCTOR **CUT-OFF WIRE CRIMP HEIGHT** TAB **INSULATION CRIMP**

Doc No. ATS-639032400 Release Date: 07-01-14 Revision: C Revision Date: 09-26-17

²⁰ AWG crimps should use UL1061 wire; 22 AWG crimps should use UL1007 or UL1061 wire.

CRIMP SPECIFICATION

	Terminal Series No.	Bell N	l louth	Cut-Off Tal	Maximum (Conductor Brush		
		mm	ln.	mm	ln.	mm	ln.	
	105300	0.25-0.50	.010020	0.17	.007	0.25-1.00	.010040	

	Bend Up	Bend Down	Twist	Roll	Punch Width (Ref)					
Terminal Series No.	Della Up	Bella Dowll	IWIST	KOII	Conductor		Insulation		Seam	
	Degr	Degree Max.		mm	ln.	mm	ln.			
105300	3	3	4	8	1.40	.055	1.80	.071	Seam shall not be open and no wire allowed	
									out of the crimping area	

After crimping, the crimp profiles should measure the following:

	Wire Size		Conductor				Insulation					Pull Force	
Terminal Series No.			Crimp Height		Crimp Width (Ref)		Crimp Height (Max)		Crimp Width (Max)		Minimum		
	AWG	mm ²	mm	ln.	mm	ln.	mm	ln.	mm	ln.	N	Lb.	
105300	20	_	0.85-0.95	.033037	1.40	.055	1.7	0.067	1.9	0.075	58	13	
105500	22	_	0.75-0.85	.030033	1.40	.055	1.6	0.063	1.9	0.075	36	8	

Tool Qualification Notes

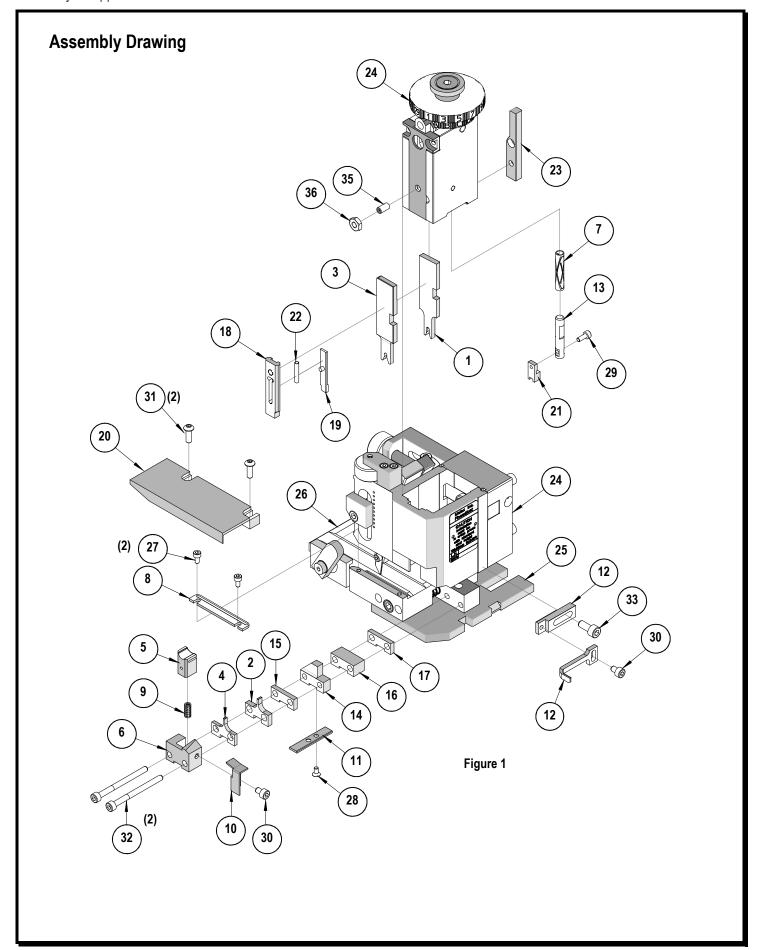
- 1. Pull force should be measured with no influence from the insulation crimp.
- 2. The above specifications are guidelines to an optimal crimp.
- 3. Terminal Oiler (63801-7240) required when crimping to avoid terminal sticking and to improve tooling life. See 63800-4900 FineAdjust Manual.

UNCONTROLLED COPY Page 2 of 5 Release Date: 07-01-14

PARTS LIST

	FineAdjust Applicator 63903-2400										
Item	Order No. Engineering No. Description										
Perishable Tooling											
	63903-2470	63903-2470	Tool Kit (All "Y" Items)	REF							
1	63457-1403	63457-1403	Conductor Punch	1 Y							
2	63445-1431	63445-1431	Conductor Anvil	1 Y							
3	63454-0146	63454-0146	Insulation Punch	1 Y							
4	63456-0099	63456-0099	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	Compression Spring	1							
8	11-18-4083	60707-8	Feed Guide	1							
9	11-24-1067	11-24-1067	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	63443-2305	63443-2305	Fine Spacer (3.25mm)	1							
18	63443-2806	63443-2806	Front Plunger Striker	1							
19	63443-2907	63443-2907	Wire Hold-Down Plunger	1							
20	63443-6108	63443-6108	Rear Cover	1							
21	63443-7112	63443-7112	Terminal Hold-Down	1							
22	63600-1057	63600-1057	Compression Spring	1							
23	63820-7820	63820-7820	Feed Cam - Special	1							
			Frame								
24	63800-4901	63800-4901	Тор	1							
25	63801-3281	63801-3281	Base	1							
26	63801-4650	63801-4650	Track	1							
		H	ardware								
27	N/A	N/A	M3 by 6 Long SHCS	2**							
28	N/A	N/A	M3 by 6 Long FHCS	1**							
29	N/A	N/A	M3 by 8 Long SHCS	1**							
30	N/A	N/A	M4 by 6 Long SHCS	2**							
31	N/A	N/A	M4 by 12 Long BHCS	2**							
32	N/A	N/A	M4 by 50 Long SHCS	2**							
33	N/A	N/A	M5 by 12 Long SHCS	1**							
34	N/A	N/A	#10-32 by 3/8"Long Flat Point SSS	1**							
35	N/A	N/A	#10-32 Hex Jam Nut	1**							
		** Available from an	industrial supply company.								

UNCONTROLLED COPY Doc No. ATS-639032400 Page 3 of 5 Release Date: 07-01-14 Revision: C



Doc No. ATS-639032400 Revision: C Release Date: 07-01-14 Revision Date: 09-26-17

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 the 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 135.80 mm (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

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Doc No. ATS-639032400 Release Date: 07-01-14 **UNCONTROLLED COPY** Page 5 of 5 Revision: C Revision Date: 09-26-17