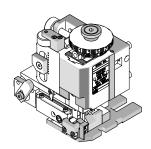
Order Number 203702-4400







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 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
- This tool is IPC/WHMA-A-620 Class 2 Compliant, as indicated below
- Directly adapts to most automatic wire processing machines
- For 16-18 AWG terminals, use FineAdjust applicator 203702-4300

SCOPE

Products: Ultra-Fit Tang-less Plug Crimp Terminals, 20-22 AWG (UL1061) wire.

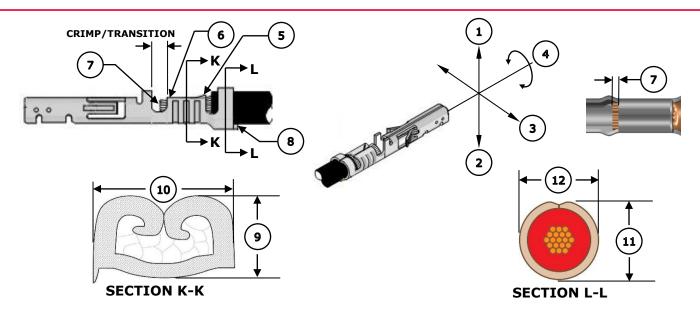
	Terminal Order No.	Wire Size		Insulation Diameter					
Terminal Series No.				IPC/WHMA-A-620 (1)		Terminal (2)		Strip Length	
		AWG	Wire Type	mm	In.	mm	In.	mm	In.
216946	216946-5111	20-22	UL1061	1.25-1.55	.049061	1.30-1.50	.051059	3.5-4.0	.1416
	216946-5112								
	216946-5113								
(1) To achieve entireum IDC/MHMA A 620 class 2 insulation crimps, use this insulation OD range									

(1) To achieve optimum IPC/WHMA-A-620 class 2 insulation crimps, use this insulation OD range. (2) Overall insulation OD specification for terminal.

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DEFINITION OF TERMS



Note: Image above is a generic terminal representation. The actual terminals of the scope may look different.

CRIMP SPECIFICATION

Feature	Requirement							
1. Bend Up	3° Max							
2. Bend Down	3° Max							
3. Twist	3° Max							
4. Roll	5° Max							
5. Bell Mouth Rear	0.30-0.80mm (.0120	31")						
6. Bell Mouth Front Not Applicable								
7. Conductor Brush	0.00-1.00mm (.000039")							
8. Cut-Off Tab	0.20mm (.008") Max							
	Terminal Order No.	Wire Size	9. Crimp	Height	10. Crimp Width (Ref)			
Conductor Crimp	216946-5111 216946-5112 216946-5113	20 AWG	0.82-0.92mm	.032036 In.	1.60-1.70mm	.063067 In.		
		22 AWG	0.73-0.83mm	.029033 In.	1.60-1.70mm	.063067 In.		
	Terminal Order No.	Wire Size	11. Crimp Height (Ref)		12. Crimp Width (Ref)			
Insulation Crimp	216946-5111 216946-5112	20 AWG	1.73mm	.068 In.	1.78mm	.070 In.		
	216946-5113	22 AWG	1.53mm	.060 In.	1.78mm	.070 In.		
	Terminal Order No.	Wire Size	Minimum Pull Force					
Pull Force	216946-5111 216946-5112	20 AWG	57.9 N	13 lb.	To be measu			
	216946-5113	22 AWG	35.6 N	8 lb.	influence from the insulat crimp.			

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. Terminal oiler (63801-7240) required to improve tooling life and minimize the crimp sticking in the punches. See 63800-4900 FineAdjust manual.

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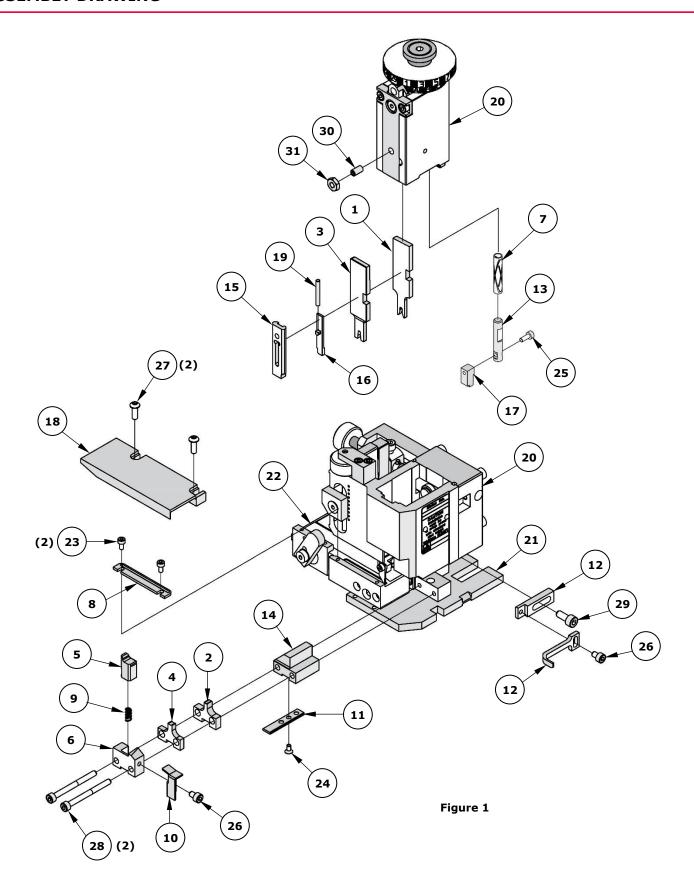
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PARTS LIST

FineAdjust Applicator 203702-4400								
Item	Order No.	Engineering No.	Description	Quantity				
Perishable Tooling								
	203702-4470	203702-4470	Tool Kit (All "Y" Items)	REF				
1	200216-1607	200216-1607	Conductor Punch	1 Y				
2	63445-1673	63445-1673	Conductor Anvil	1 Y				
3	63454-1802	63454-1802	Insulation Punch	1 Y				
4	63456-0132	63456-0132	Insulation Anvil	1 Y				
5	63443-0002	63443-0002	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	4996-4	Cut-Off Plunger Spring	1				
10	63443-0009	63443-0009	Front Scrap Chute	1				
11	63443-0024	63443-0024	Key	1				
12	63443-0090	63443-0090	Wire Stop	1				
13	63443-0093	63443-0093	Shank	1				
14	200213-7502	200213-7502	Anvil Mount	1				
15	63443-2802	63443-2802	Front Plunger Striker	1				
16	63443-2911	63443-2911	Wire Hold Down Plunger	1				
17	63443-7101	63443-7101	Terminal Hold Down	1				
18	63443-6113	63443-6113	Rear Cover	1				
19	63600-0021	63600-0021	Compression Spring	1				
Frame								
20	63800-4901	63800-4901	Тор	1				
21	63801-3281	63801-3281	Base	1				
22	63801-4650	63801-4650	Track	1				
	<u> </u>	Hard	ware	1				
23	_	_	M3 by 6 Long SHCS	2*				
24	_	_	M3 by 6 Long FHCS	1*				
25	_	_	M3 by 8 Long SHCS	1*				
26	_	_	M4 by 6 Long SHCS	2*				
27	_	_	M4 by 12 Long BHCS	2*				
28	_	_	M4 by 50 Long SHCS	2*				
29	_	_	M5 by 12 Long SHCS	1*				
30	_	_	M5 by 10 Long Flat Point SSS	1*				
31	_	_	M5 Hex Jam Nut	1*				
* Available from an industrial supply company.								

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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 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 135.8mm (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

Phone: (402) 458-TOOL (8665)
E-Mail: toolingsupport@molex.com
Website: www.molex.com/applicationtooling

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