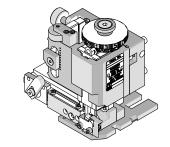
Order Number 63904-3800





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

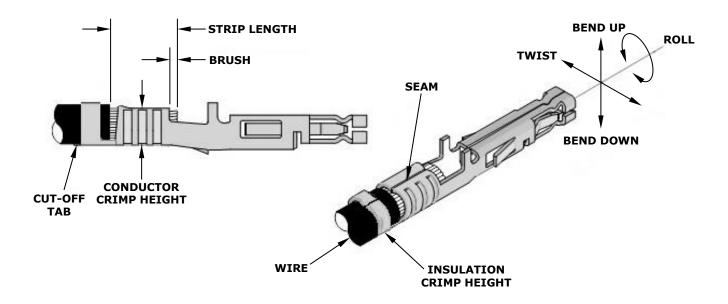
SCOPE

Products: Mega-Fit Male and Female Terminals, 12 AWG UL1007 Wire.

Terminal	Terminal	Wire Size		Insulatio	Strip Length			
Series No.		Wife Size	IPC/WHMA-A-620 (1)					Terminal Maximum (2)
Series No. Order No.		AWG	mm	In.	mm	In.	mm	In.
76823	76823-0343	12	3.12-3.35	.123131	4.05	.126	5.00-5.50	.197216
105417	105417-0333	12	3.12-3.35	.123131	4.05	.126	5.00-5.50	.197216
105110	105418-0313	12	3.12-3.35	.123131	4.05	.126	5.00-5.50	.197216
105418	105418-1313							
172063	172063-0333	12	3.12-3.35 .1	.123131	4.05	.126	5.00-5.50	.197216
	172063-1333			.123131				

(1) To achieve optimum IPC/WHMA-A-620 insulation crimps, use this OD range, or UL1007 wire type (2) Overall insulation OD specification for terminal

DEFINITION OF TERMS



Doc. No: 639043800 Release Date: 09-10-18 UNCONTROLLED COPY Page 1 of 6

Revision: C Revision Date: 05-06-20

CRIMP SPECIFICATION

Terminal Series No.	Bell I	Mouth	Cut-O Maxi		Conductor Brush		
	mm	In.	mm	In.	mm	In.	
76823	0.40-0.75	.016029	0.60	.024	0.10-1.15	.004045	
105417	0.40-0.75	.016029	0.60	.024	0.10-1.15	.004045	
105418	0.40-0.75	.016029	0.60	.024	0.10-1.15	.004045	
172063	0.40-0.75	.016029	0.60	.024	0.10-1.15	.004045	

Terminal Series	Bend Up	Bend Down	Twist	Roll	Punch Width (Ref) Conductor		Seam		
No.	Degre	ee (Max)	Degree (Max)		mm In.		Seam		
76823	3	3	4	8	3.20	.126			
105417	3	3	4	8	3.20	.126	Seam shall not be open		
105418	3	3	4	8	3.20	.126	and no wire allowed out of the crimping area		
172063	3	3	4	8	3.20	.126			

After crimping, the conductor profile should measure the following:

	Wire Size	Conductor Crimp					Pull Force	
Terminal Series No.	wire Size	Crimp Height		Crimp Width (Ref.)		Minimum		
	AWG	mm	In.	mm	In.	N	Lb.	
76823	12	1.90-2.00	.075079	3.30	.130	220.0	49.46	
105417	12	1.90-2.00	.075079	3.30	.130	220.0	49.46	
105418	12	1.90-2.00	.075079	3.30	.130	220.0	49.46	
172063	12	1.90-2.00	.075079	3.30	.130	220.0	49.46	

	Wire Size	Insulation Crimp					
Terminal Series No.	Wife Size	Crimp Hei	ght (Ref.)	Crimp Width (Ref.)			
	AWG	mm	In.	mm	In.		
76823	12	3.75	.147	4.0	.157		
105417	12	3.75	.147	4.0	.157		
105418	12	3.75	.147	4.0	.157		
172063	12	3.75	.147	4.0	.157		

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. Oiler (63801-7240) required to crimp terminals to improve tooling life and also to minimize the crimp extrusions. See 63800-4900 FineAdjust manual.

Doc. No: 639043800 Release Date: 09-10-18 **UNCONTROLLED COPY** Page 2 of 6 Revision Date: 05-06-20

Revision: C

NOTES

- 1. Molex recommends that an extra perishable tooling kit be maintained at your facility.
- 2. Verify tooling alignment by hand 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.

WARNINGS

CAUTION: This applicator must be installed in a press with a standard 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 tooling crimp specifications are valid only when used with Molex terminals and tooling manufactured by Molex and sold by Molex or authorized distributors ("Molex Tooling"). When using tooling other than Molex Tooling with Molex-specific connector systems listed in our ATS documents, the Molex Tooling qualification does not apply, and the responsibility for full qualification of the connector system is that of the customer. Molex accepts no liability for connector performance or tooling support where tooling other than Molex Tooling is used or where Molex Tooling is modified.

Page 3 of 6 Doc. No: 639043800 Release Date: 09-10-18 Revision Date: 05-06-20

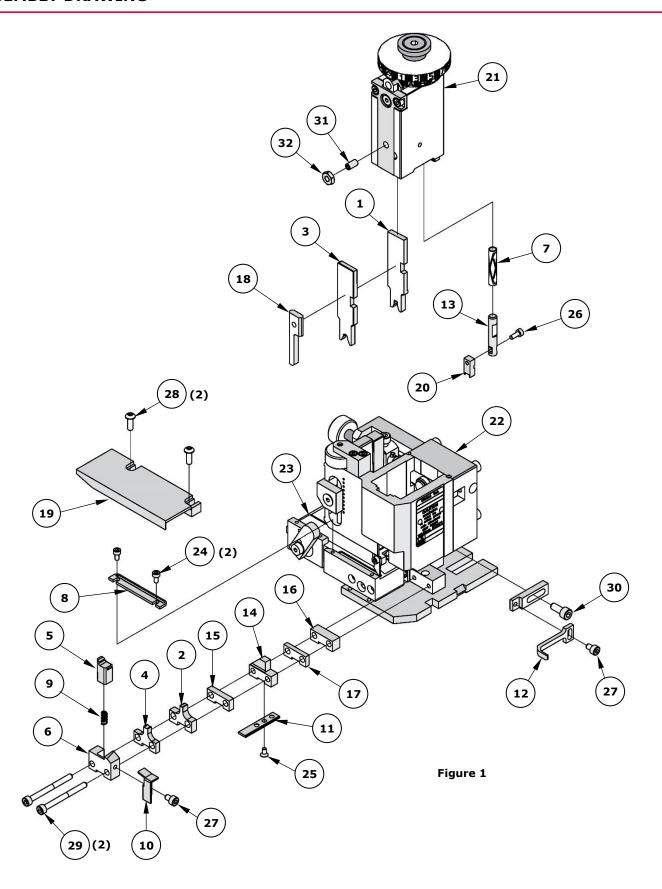
Revision: C

PARTS LIST

	FineAdjust Applicator 63904-3800								
Item	Order No.	Engineering No.	Description	Quantity					
		Perish	able Tooling						
	63904-3870	63904-3870	Tool Kit (All "Y" Items)	REF					
1	63457-3201	63457-3201	Conductor Punch	1 Y					
2	63455-3231	63455-3231	Conductor Anvil	1 Y					
3	63446-3938	63446-3938	Insulation Punch	1 Y					
4	63445-3952	63445-3952	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	Nose 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	63443-0024	63443-0024	Key	1					
12	63443-0090	63443-0090	Wire Stop	1					
13	63443-0093	63443-0093	Shank	1					
14	63443-1714	63443-1714	18.40mm (Height Spacer)	1					
15	63443-2314	63443-2314	3.70mm (Fine Spacer)	1					
16	63443-2208	63443-2208	8.00mm (Coarse Spacer)	1					
17	63443-2205	63443-2205	5.00mm (Coarse Spacer)	1					
18	63443-3160	63443-3160	Front Plunger Striker	1					
19	63443-6123	63443-6123 Rear Cover		1					
20	63443-7136	63443-7136 Terminal Hold Down		1					
			Frame						
21	63800-4901	63800-4901	Тор	1					
22	63801-3281	63801-3281	Base	1					
23	63801-4650	63801-4650	Track	1					
		Н	ardware						
24	_		M3 by 6 Long SHCS	2*					
25		I	M3 by 6 Long FHCS	1*					
26		1	M3 by 8 Long SHCS	1*					
27			M4 by 6 Long SHCS	2*					
28	_	_	M4 by 12 Long BHCS	2*					
29		— M4 by 45 Long SHCS		2*					
30	_	— M5 by 12 Long SHCS		1*					
31	_	 #10-32 by 3/8"Long Flat Point SSS 		1*					
32			#10-32 Hex Jam Nut	1*					
	* Available from an industrial supply company.								

Doc. No: 639043800 Release Date: 09-10-18 **UNCONTROLLED COPY** Page 4 of 6 Revision: C Revision Date: 05-06-20

ASSEMBLY DRAWING



Page 5 of 6 Doc. No: 639043800 Release Date: 09-10-18 **UNCONTROLLED COPY** Revision Date: 05-06-20

Revision: C

FineAdjust Applicator for Mega-Fit Male and Female Terminals

Application Tooling Support

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Doc. No: 639043800 Release Date: 09-10-18 UNCONTROLLED COPY Page 6 of 6

Revision: C Revision Date: 05-06-20