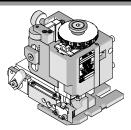


Application Tooling Specification Sheet



Order No. 63900-0600

FEATURES

FineAdjust Applicator

- Quick punch removal with the push of a button for fast and easy tooling change
- Applicator designed to industry standard mounting and shut height 135.80mm (5.346")
- Quick set-up 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

Products: MX150[™] Blade Terminals 22 AWG, and 0.50mm².

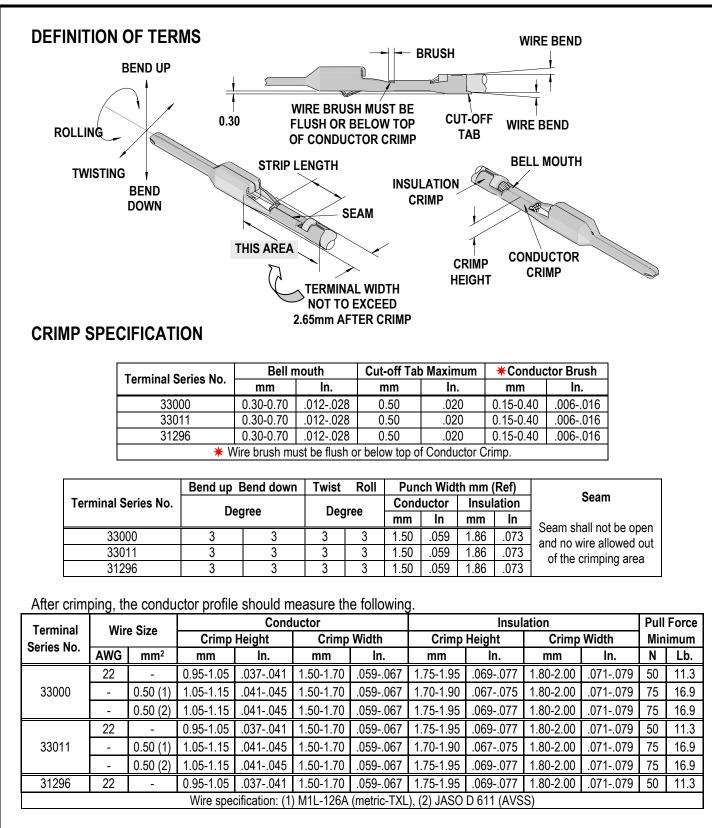
Terminal	Terminal Order No.		Wire Size		Insulation Diameter		Strip Length	
Series No.			AWG	mm²	mm	ln.	mm	ln.
33000	33000-1003	Male (Tin)	22	-	1.50-1.65	.059065	4.70-5.60	.185220
			-	0.50 (1)	1.40-1.60	.055063		
			-	0.50 (2)	1.60-1.70	.063067		
33011	33011-0006	Male (Gold)	22	-	1.50-1.65	.059065	4.70-5.60	.185220
			-	0.50 (1)	1.40-1.60	.055063		
			-	0.50 (2)	1.60-1.70	.063067		
	33011-3001	Male (Silver)	22	-	1.50-1.65	.059065		
			-	0.50 (1)	1.40-1.60	.055063		
			-	0.50 (2)	1.60-1.70	.063067		
31296	31296-0006	Male (Long)	22	-	1.50-1.65	.059065	4.70-5.60	.185220

Terminals were validated per USCAR-21 using the following wire specifications:

M1L-123A (TXL), M1L-135A1 (UTX), (1) M1L-126A1(metric-TXL), and (2) JASO D 611 (AVSS) Customers are required to complete validation testing if tooling purchased outside Molex Inc. and/or wire specifications

are different than above.

Note: Oiler (Order No. 63801-7240) is required to crimp these terminals. See Fine Adjust Manual (Order no. 63800-4900)



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.

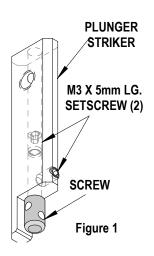
Adjusting the Wire Bend Angle (See Item11 in parts list and assembly drawing.)

Note: If the <u>Wire Bend</u> is present after crimping use the following method to remove the bend. This tooling may not be necessary for all wire gauges.

- 1. The screw is provided for wire straightening. See Figure 1.
- 2. Loosen the (2) M3 x 5mm long setscrews; see Figure 1, before turning the screw.
- Start by adjusting the screw so it just touches the insulation outside diameter of the wire being crimped. If wire <u>Bend Up</u> exists, turn the screw a quarter turn clockwise (CW) to lengthen it.
- 4. Continue to adjust the length of the screw until the wire appears to be straight after crimping. If wire <u>Bend Down</u> exists, turn the screw a quarter turn counter clockwise (CCW) to shorten it. Continue to adjust the length of the screw until the wire appears to be straight after crimping.
- Tighten the M3 x 5mm long setscrews, when finished adjusting the screw. Two M3 x 5mm long setscrews are provided; the top setscrew is to lock the screw after adjustments. The M3 x 5mm long setscrew on the side of plunger striker is used when making adjustments.

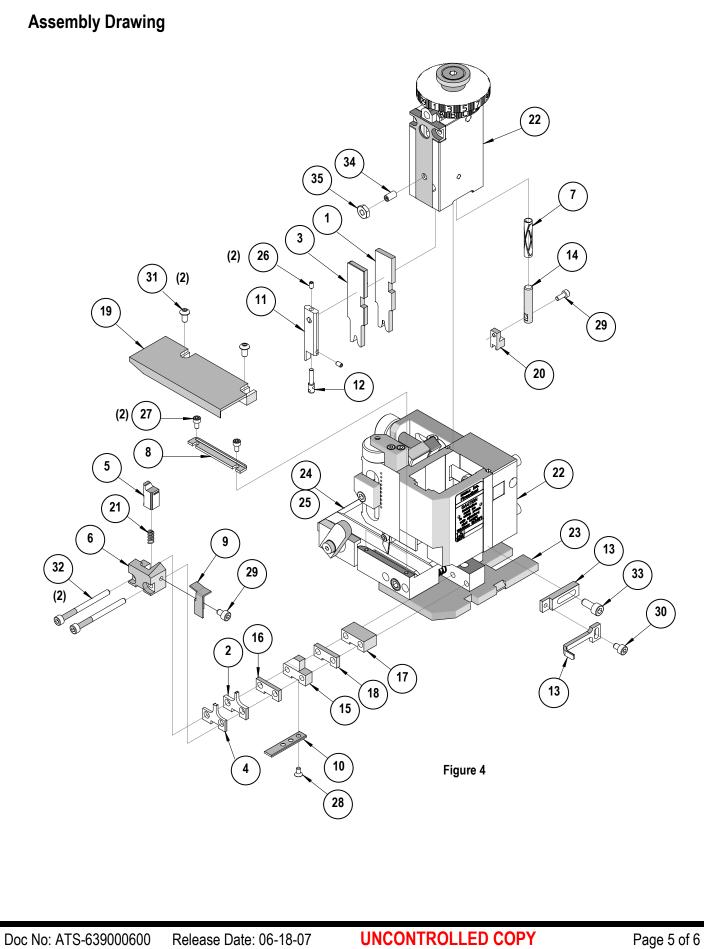
Adjusting the Wire Brush Length (See Item13 in parts list and assembly drawing.)

- 1. If the wire brush is too long or extends above the top of the conductor crimp, adjust the Wire Stop, Item 13, closer to the conductor punch.
- 2. If the wire brush is too short, adjust the Wire Stop further away from the conductor punch.



PARTS LIST

FineAdjust Applicator 63900-0600											
ltem	Order No	Engineering No.	Description	Quantity							
Perishable Tooling											
	63900-0670	63900-0670	Tool Kit (All "Y" Items)	REF							
1	63444-1548	63444-1548	Conductor Punch	1 Y							
2	63455-0044	63455-0044	Conductor Anvil	1 Y							
3	63454-0050	63454-0050	Insulation Punch	1 Y							
4	63456-0045	63456-0045	Insulation Anvil	1 Y							
5	63443-0037	63443-0037	Cut-Off Plunger	1 Y							
6	63443-0038	63443-0038	Front Plunger Retainer	1 Y							
Other Components											
7	11-17-0022	1739-21	Hold Down Spring	1							
8	11-18-4094	60709A111	Feed Guide	1							
9	63443-0009	63443-0009	Scrap Chute	1							
10	63443-0024	63443-0024	Кеу	1							
11	63443-0082	63443-0082	Front Plunger Striker	1							
12	63443-0083	63443-0083	Striker Screw	1							
13	63443-0090	63443-0090	Wire Stop	1							
14	63443-0093	63443-0093	Shank	1							
15	63443-1717	63443-1717	Height Spacer	1							
16	63443-2205	63443-2205	Coarse Spacer (5.00mm)	1							
17	63443-2209	63443-2209	Coarse Spacer (9.00mm)	1							
18	63443-2306	63443-2306	Fine Spacer (3.30mm)	1							
19	63443-6115	63443-6115	Rear Cover	1							
20	63443-7102	63443-7102	Terminal Hold Down	1							
21	63700-0539	63700-0539	Cut-off Plunger Spring	1							
			Frame								
22	63800-4901	63800-4901	Тор	1							
23	63801-3281	63801-3281	Base	1							
24	63801-4650	63801-4650	Track	1							
25	63459-0001	63459-0001	Terminal Track	1							
			Hardware								
26	N/A	N/A	M3 by 5Lg. SHSS-Brass Tip	2**							
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	n an industrial supply	y company such as MSC (1-800-645-7	270).							



Release Date: 06-18-07 Revision Date: 03-25-15

NOTES

- 1. Molex recommends 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.
- 6. Molex recommends using lubrication with all terminals crimped in this applicator.
- 7. Recommended oil is Transdraw B-19
 - Vendor: Mid-Town Petroleum 9707 South 76th Avenue Bridgeview, IL 60455 Toll-Free: 877-255-3533 Direct: 708-599-8700 Fax: 708-599-1040 E-mail: sales@midtownoil.com www.midtownoil.com www.precisionlubricantsinc.com

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 wireprocessing 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.

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