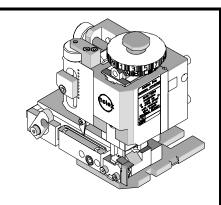


FineAdjust Applicator **Specification Sheet** Part No. 63868-2000



FEATURES

- 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™Receptacle Terminals 1.50 metric and 14-16 AWG.

Terminal Series No.	Terminal Order No.		Wire	Size	Insulation	Diameter	Strip Length		
			AWG	mm²	mm	ln.	mm	ln.	
33001	33001-3003	33001-3021	14-16	1.30-2.00	2.18-2.69	.087106	4.70-5.60	.185220	
	33001-3003	33001-3021	Metric Only	1.50	2.20-2.40	.087094	4.70-5.60	.185220	
33012	33012-3001	33012-3021	14-16	1.30-2.00	2.18-2.69	.086106	4.70-5.60	.185220	
33012	33012-3001	33012-3021	Metric Only	1.50	2.20-2.40	.087094	4.70-5.60	.185220	
Terminal is designed for thin wall insulation per Ford's specification M1L135-A1, M1L123-A, and M1L126-A1/A2/A3									

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

The above terminal drawing is a generic terminal representation. It is not an image of any terminal listed in the scope.

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CRIMP SPECIFICATION

Terminal Series No.	Bell n	nouth	Cut-off 1	Tab Max.	Conductor Brush			
Terminal Series No.	mm	ln.	mm	In. mm		ln.		
33001	0.25-1.25	.010049	0.50	.020	0.15-0.40	.006016		
33012 0.25-1.25		.010049	0.50	.020	0.15-0.40	.006016		
Wire brush to be below top of Conductor Crimp.								

Terminal	Bend up Bend down	Twist Roll	Punch Width (Ref)				C	
Series No.	bena up bena aown	I WIST KOII	Conductor		Insulation		Seam Seam shall not be	
Series No.	Degree	Degree	mm	ln	mm	In	open and no wire allowed	
33001	Crimped terminals and up to 5mm of wire past the insulator			.094	2.48	.098	out of the crimping area	
33012	cutoff tab must freely fit in the Checking Aid,	2.39	.094	2.48	.098	our or me crimping area		

Order Separately

After crimping, the crimp profiles should measure the following:

Torminal	Wire Size		Conductor				Insulation				Pull Force		
Terminal Wire Size		Crimp		Height Crimp		Width Crimp		Height	Crimp	Crimp Width		Min.	
Jelles Mu.	AWG mm ²		mm	ln.	mm	ln.	mm	ln.	mm	ln.	N	Lb.	
33001	14	2.00	1.60-1.70	.063067	2.35-2.55	.092100	2.60-2.80	.102110	2.50-2.70	.098106	180.1	40.5	
33001	Metric Only	1.50	1.35-1.45	.053057	2.35-2.55	.092100	2.50-2.70	.098106	2.50-2.70	.098106	151.2	34.0	
33001	16	1.27	1.30-1.40	.051055	2.35-2.55	.092100	2.30-2.50	.090098	2.50-2.70	.098106	120.1	27.0	
33012	14	2.00	1.60-1.70	.063067	2.35-2.55	.092100	2.60-2.80	.102110	2.50-2.70	.098106	180.1	40.5	
33012	Metric Only	1.50	1.35-1.45	.053057	2.35-2.55	.092100	2.50-2.70	.098106	2.50-2.70	.098106	151.2	34.0	
33012	16	1.27	1.30-1.40	.051055	2.35-2.55	.092100	2.30-2.50	.090098	2.50-2.70	.098106	120.1	27.0	

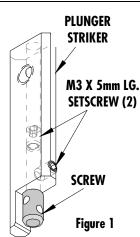
* Tool Qualification Notes:

- 1. Pull Force should be measured with no influence from the insulation crimp.
- 2. The above specifications are guidelines to an optimum crimp.

<u>Adjusting the Wire Bend Angle</u> (See Item17 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.
- 3. 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.
- 5. 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.



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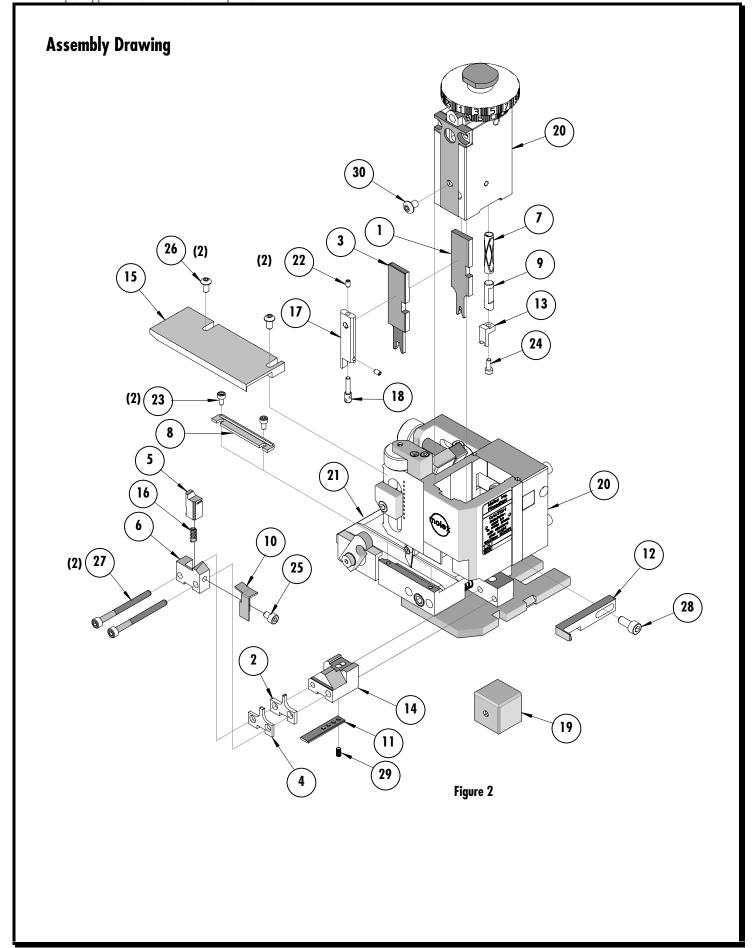
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PARTS LIST

	FineAdjust Applicator 63868-2000								
ltem	Order No Engineering No. Description Quantity								
Perishable Tooling									
	63868-2070	63868-2070	Tool Kit (All "Y" Items)	REF					
1	63457-0029	63457-0029	Conductor Punch	1 Y					
2	63455-0033	63455-0033	Conductor Anvil	1 Y					
3	63454-0047	63454-0047	Insulation Punch	1 Y					
4	63456-0033	63456-0033	Insulation Anvil	1 Y					
5	63461-0001	63461-0001	Cut-Off Plunger Front	1 Y					
6	63443-0036	63443-0036	Plunger Retainer Front	1 Y					
		Other Co	mponents						
7	11-17-0022	1739-21	Compression Spring	1					
8	11-18-4094	60709-A111	Front Cover	1					
9	11-24-1149	4996-37	Shank	1					
10	63443-0009	63443-0009	Scrap Chute Front	1					
11	63443-0021	63443-0021	Lower Tooling Key	1					
12	11-18-4080	60707-5	Wire Stop	1					
13	63443-0069	63443-0069	Terminal Hold Down	1					
14	63443-2506	63443-2506	Anvil Mount	1					
15	63443-6013	63443-6013	Rear Cover	1					
16	63700-0539	63700-0539	Cut-off Plunger Spring	1					
17	63443-0082	63443-0082	Plunger Striker Front	1					
18	63443-0083	63443-0083	Striker Screw	1					
19	63868-2008	63868-2008	Checking Aid	REF					
Frame									
20	63801-3100	63801-3100	Wide Track Fine Adjust Frame	1					
21	63459-0001	63459-0001	Wide Terminal Track	1					
	<u>'</u>	Hard	ware	'					
22	N/A	N/A	M3 by 5Lg. SHSS-Brass Tip	2**					
23	N/A	N/A	M3 by 6Lg. SHCS	2**					
24	N/A	N/A	M3 by 8Lg. SHCS	1**					
25	N/A	N/A	M4 by 6Lg. SHCS]**					
26	N/A	N/A	M4 by 12Lg. BHCS	2**					
27	N/A	N/A	M4 by 50Lg. SHCS	2**					
28	N/A	N/A	M5 by 12Lg. SHCS]**					
29	N/A	N/A	3MM by 6Lg. Roll Pin]**					
30	N/A	N/A	#10-32 by 1/4"Lg. BHCS]**					
**	Available from	an industrial supply co	mpany such as MSC (1-800-645-	7270).					

The Checking Aid 63868-2008 to be ordered separately if required. (This item is not included with the Applicator and is shown for Reference purpose only)

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NOTES

- Molex recommends an extra perishable tooling kit be maintained at your facility.
- Verify tooling alignment by manually cycling the press and Applicator before crimping under power. Check that all screws are tight.
- Slugs, Terminals, Dirt and Oil should be kept clear of work area.
- 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.

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