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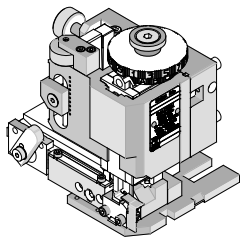
FineAdjust Applicator

Application Tooling Specification Sheet



Order No. 63904-0400

FEATURES THIS APPLICATOR IS FOR AUTOMATIC WIRE PROCESSOR USE ONLY.

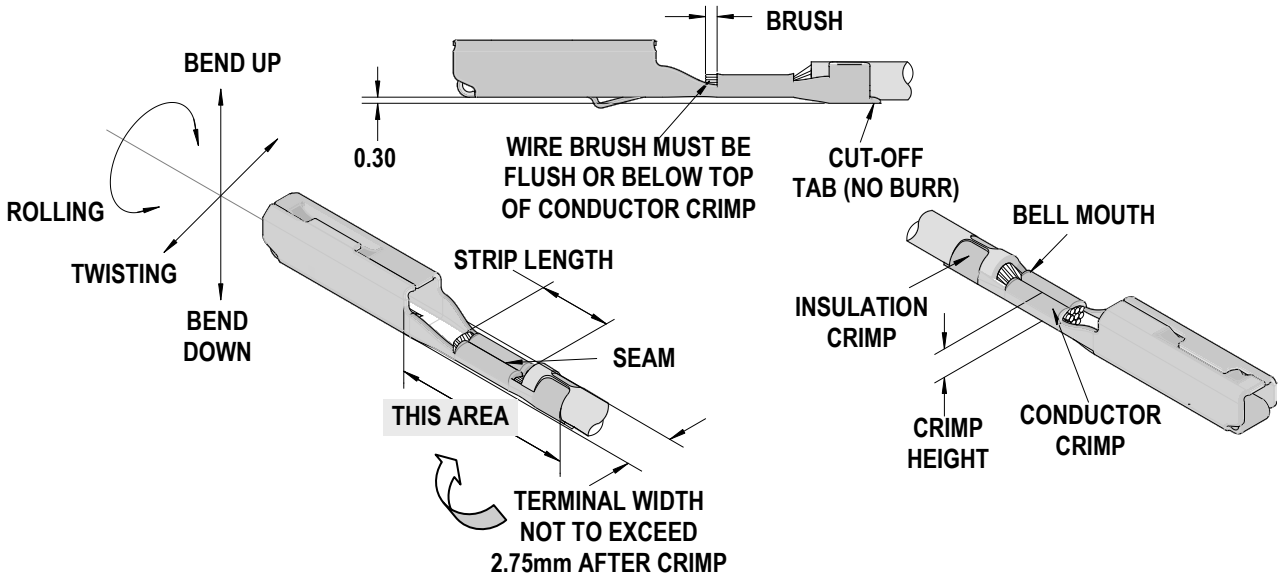
- Quick punch removal with the push of a button for fast and easy tooling change
- Applicator designed to industry standard mounting and shut height 135.80mm (5.346")
- Quick set-up time; plus the crimp height, track and feed adjustments can be set without removing the applicator from the press
- Fine 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: SRC Connector using MX150 Receptacle Terminals, 0.75mm² wires.

Terminal Series No.	Terminal Order No.		Wire Size		Insulation Diameter		Strip Length	
			Wire Type	mm²	mm	In.	mm	In.
33001	33001-3004	33001-5002	FLRY-B	0.75	1.70-1.90	.067-.075	4.70-5.60	.185-.220
33012	33012-3002		FLRY-B	0.75	1.70-1.90	.067-.075	4.70-5.60	.185-.220
Terminals were validated using the following wire specifications: ISO 6722-1, Class B.								

DEFINITION OF TERMS



CRIMP SPECIFICATION

Terminal Series No.	Bell mouth		Cut-off Tab (Max)		✦Conductor Brush (Max)	
	mm	In.	mm	In.	mm	In.
33001	0.30-0.70	.012-.028	0.50	.020	0.40	.016
33012	0.30-0.70	.012-.028	0.50	.020	0.40	.016

✦ Wire brush must be flush or below top of Conductor Crimp.

✦ **THIS APPLICATOR IS INTENDED FOR AUTOMATIC WIRE PROCESSOR USE ONLY.**

It is very important that the brush length is consistently within specification for this sealed connector system to work properly. This applicator should only be run in a properly setup automatic wire processor in order to consistently achieve the brush length. Any attempt to use this applicator outside a properly setup automatic wire processor will likely not meet the brush specification and cause this sealed connector system to not work properly.

Terminal Series No.	Bend up	Bend down	Twist	Roll	Punch Width (Ref) Conductor mm	Conductor In	Insulation mm	Insulation In	Conductor Seam
	Degree		Degree						
33001	3	3	3	3	2.10	.083	2.16	.085	Seam shall not be open and no wire allowed out of the crimping area
33012	3	3	3	3	2.10	.083	2.16	.085	

After crimping, the crimp profiles should measure the following:

Terminal Series No.	Wire Size		Conductor Crimp Height		Conductor Crimp Width		Insulation Crimp Height (Ref)		Insulation Crimp Width (Ref)		Pull Force Minimum	
	Wire Type	mm^2	mm	In.	mm	In.	mm	In.	mm	In.	N	Lb.
33001	FLRY-B	0.75	1.20-1.30	.047-.051	2.05-2.25	.081-.089	2.30	.091	2.20	.087	90	20.2
33012	FLRY-B	0.75	1.20-1.30	.047-.051	2.05-2.25	.081-.089	2.30	.091	2.20	.087	90	20.2

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 Brush Length

(See Item11 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 11, 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 63904-0400				
Item	**Order No**	**Engineering No.**	**Description**	**Quantity**
Perishable Tooling				
	63904-0470	63904-0470	Tool Kit (All "Y" Items)	REF
1	63444-2137	63444-2137	Conductor Punch	1 Y
2	63455-0094	63455-0094	Conductor Anvil	1 Y
3	63454-0025	63454-0025	Insulation Punch	1 Y
4	63456-0116	63456-0116	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	Key	1
11	63443-0090	63443-0090	Wire Stop	1
12	63443-0093	63443-0093	Shank	1
13	63443-1717	63443-1717	Height Spacer (18.70mm)	1
14	63443-2206	63443-2206	Coarse Spacer (6.00mm)	1
15	63443-2208	63443-2208	Coarse Spacer (8.00mm)	1
16	63443-2306	63443-2306	Fine Spacer (3.30mm)	1
17	63443-2801	63443-2801	Front Plunger Striker	1
18	63443-2915	63443-2915	Wire Hold Down Plunger	1
19	63443-6122	63443-6122	Rear Cover	1
20	63443-7101	63443-7101	Terminal Hold Down	1
21	63600-0021	63600-0021	Striker Plunger Spring	1
22	63700-0539	63700-0539	Cut-off Plunger Spring	1
Frame				
23	63800-4901	63800-4901	Top	1
24	63801-3281	63801-3281	Base	1
25	63801-4650	63801-4650	Track	1
25A	63459-0001	63459-0001	Terminal Track	1
Hardware				
26	N/A	N/A	M3 by 6 Long SHCS	2**
27	N/A	N/A	M3 by 6 Long FHCS	1**
28	N/A	N/A	M3 by 8 Long SHCS	1**
29	N/A	N/A	M4 by 6 Long SHCS	2**
30	N/A	N/A	M4 by 12 Long BHCS	2**
31	N/A	N/A	M4 by 50 Long SHCS	2**
32	N/A	N/A	M5 by 12 Long SHCS	1**
33	N/A	N/A	#10-32 by 3/8"Long Flat Point SSS	1**
34	N/A	N/A	#10-32 Hex Jam Nut	1**
** Available from an industrial supply company such as MSC (1-800-645-7270).				

Assembly Drawing

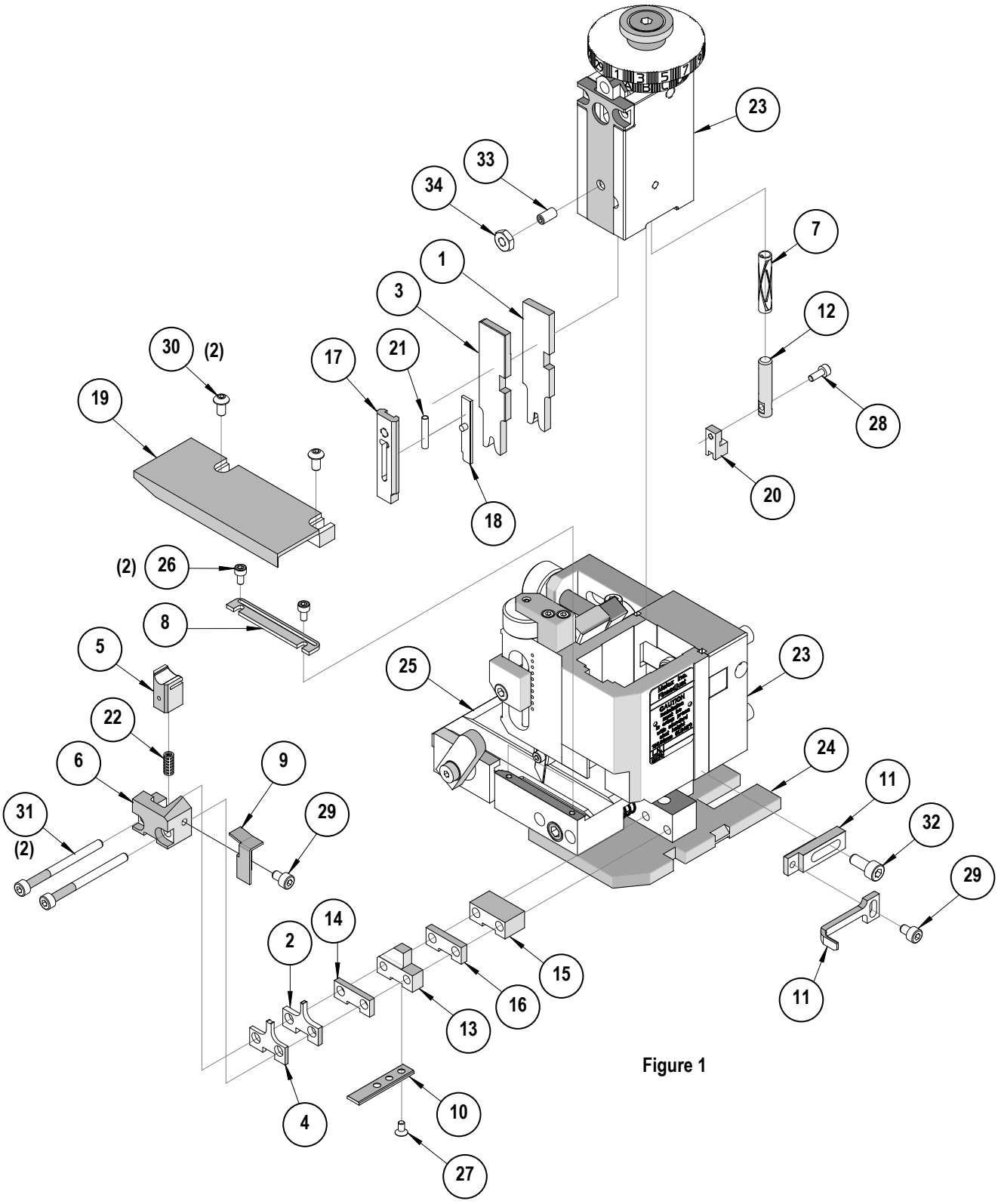


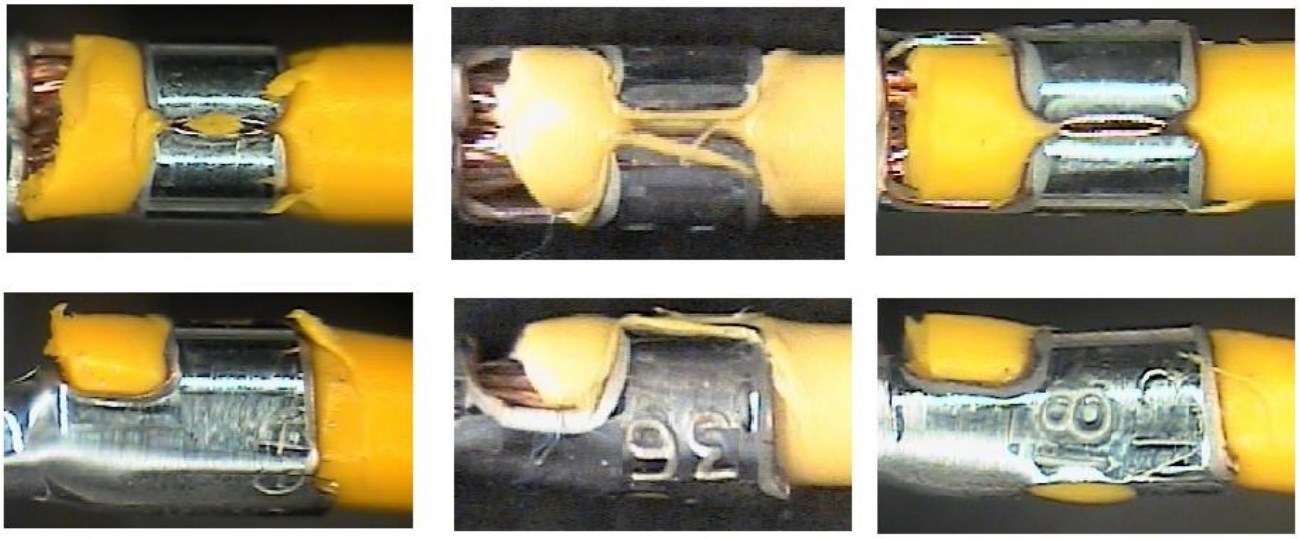
Figure 1

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.

Insulation Attribute Notes:

In order to help ensure the integrity of the connector seal, the design intent is to partially bury the insulation grips into the wire insulation. Due to this, skiving of the insulation may occur. This skiving attribute is acceptable. Below are examples of insulation skiving that may be seen with this connector system.



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: These Molex crimp specifications are valid only when used with Molex terminals, applicators and tooling qualified by Molex. When using non-Molex tooling with this specific connector system listed in this document, the Molex qualification does not apply and the responsibility for full qualification of the connector system is that of the customer. Molex accepts no liability for tooling support where non-Molex tooling is used.

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