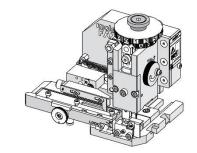
Order Number 63808-8000





Application Tooling Specification

FEATURES

- 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 .015mm (.0006") for conductor crimp height and .025mm (.001") for insulation height
- Fine adjustment of the bend is achieved using the bend control adjust dial
- 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

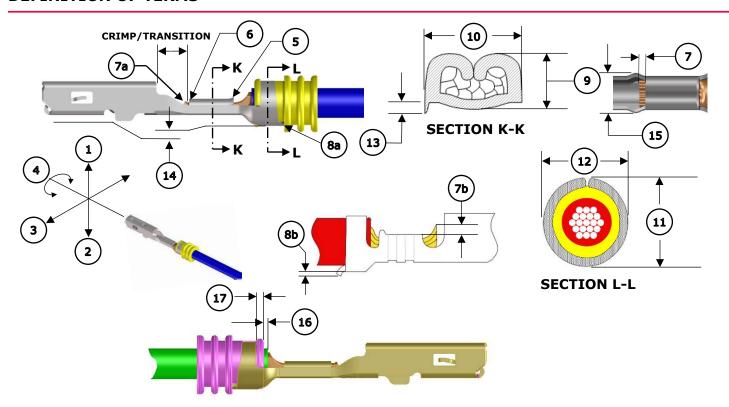
SCOPE

Products: MX150 22 Grip Receptacle Wire Seal Terminals; 22 AWG and 0.50mm² wires.

Terminal	Terminal Order No.	Wire		Insulation Diameter		Strip Length	
Series No.		Wire Type	Size	mm	In.	mm	In.
34081 34083 34751	34081-3005 34081-5003 34083-3003 34751-1003	M1L-123A4 (TXL)	22 AWG		.047067 4.70-5.60	4.70-5.60	.185220
		M1L-126A1	0.50mm²	1.20-1.70			
		JASO D611 (AVSS)				1103 1220	
		FLR91X-A-XLPO					.185220

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DEFINITION OF TERMS



CRIMP SPECIFICATIONS

The following crimp specifications are based on document AS-34083-002 Rev. B2:

Feature	Requirement							
1. Bend Up	3° Max							
2. Bend Down	3° Max							
3. Twist	3° Max							
4. Roll	3° Max							
5. Bell Mouth Rear	0.30-0.70mm (.0	0.30-0.70mm (.012028")						
6. Bell Mouth Front	Not Applicable							
7. Conductor Brush	a. 0.40mm (.016") Max b. 0.40mm (.016") Max above conductor crimp							
8. Cut-Off Tab	a. 0.50mm (.020)") Max	b. 0.30mm (.012") Max curl					
	Wire Type	Wire Size	9. Crimp Height		10. Crimp Width			
	M1L-123A4	22 AWG	0.95-1.05mm	.037041 in.				
Conductor Crimp	M1L-126A1	0.50mm ²	1.05-1.15mm	.041045 in.	1.50-1.70mm	.059067 in.		
	JASO D611							
	FLR91X-A-XLPO							
	Wire Type	Wire Size	11. Crimp Height		12. Crimp Width			
Wire Seal Crimp	ALL	22 AWG	2.40.2.60	124 142 :	3.35-3.55mm	.132140 in.		
		0.50mm ²	3.40-3.60mm	.134142 in.				
	Wire Type	Wire Size	Minimum Force					
Pull Force	M1L-123A4	22 AWG	50 N	11.3 lb.	To be measured with no influer from the wire seal crimp.			
	ALL	0.50mm ²	75 N	16.9 lb.				
13. Conductor Anvil Flash	0.10mm (.004")	Max; Not to	extend below lowest p	point of conductor cri	mp			

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14. Seal Grip Step	0.45-0.65mm (.018026")							
15. Crimp Bulge	2.62mm (.103") Max within crimp/transition area							
	Wire Type	Wire Size	16. Wire Seal Position on Wire (Ref)		17. Wire Seal Position on Terminal		Wire Seal Color	Wire Seal No.
Misc.	M1L-123A4	22 AWG	0.20-0.40mm	.008016 in.	1.10mm Min	.043 in. Min	Pink	E-1644-01
	ALL	0.50mm ²						

NOTES

Applicator Notes

- This applicator is for automatic wire processor use only.
- This applicator does not include a cutting insert.
- Installing a cutting insert will cause jamming in this applicator.

Specification Notes

- 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 set up wire processor to consistently achieve the brush length.

CUTTING INSERT

General 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 FA2 manual (TM-638080200).
- 6. Molex recommends crimping standard copper wire only.
- 7. Lubrication must be used when crimping gold and select gold terminals to prevent terminals from sticking in the conductor punch. Use 63801-7240 oiler or equivalent.

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.

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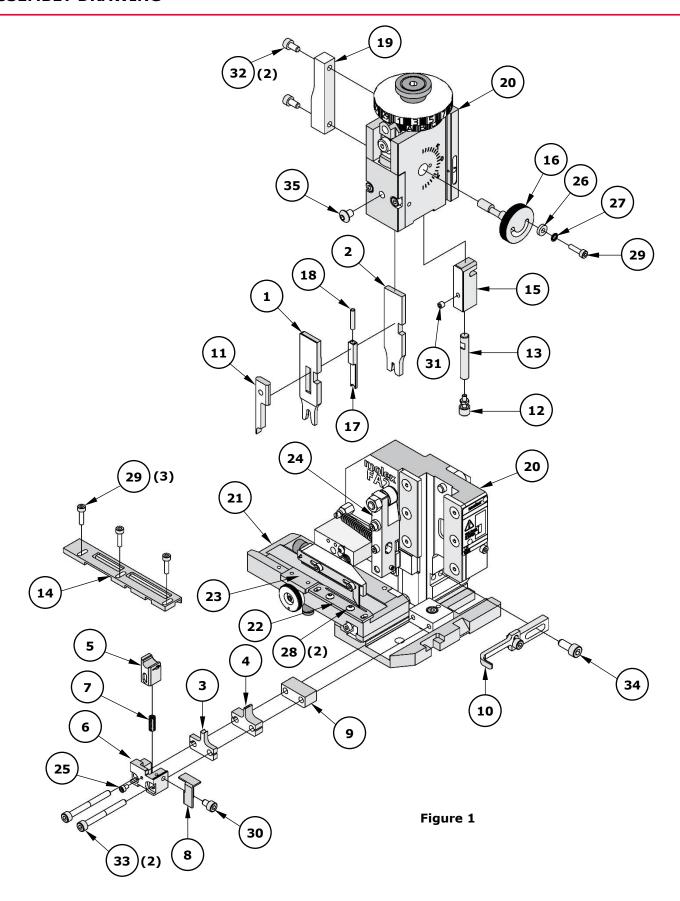
PARTS LIST

	FA2 Applicator 63808-8000								
Item	Order No.	Engineering No.	Description	Quantity					
	Perishable Tooling								
	63808-8070	63808-8070	Tool Kit (All "Y" Items)	Ref					
1	63454-0161	63454-0161	Insulation Punch	1 Y					
2	63457-0110	63457-0110	Conductor Punch	1 Y					
3	63456-3305	63456-3305	Insulation Anvil	1 Y					
4	63455-0172	63455-0172	Conductor Anvil	1 Y					
5	63443-0034	63443-0034	Front Plunger	1 Y					
		Non-Perishabl	e Components						
6	63443-0128	63443-0128	Front Plunger Retainer	1					
7	63700-0539	63700-0539	Cut-Off Plunger Spring	1					
8	63443-0117	63443-0117	Front Scrap Chute	1					
9	63443-7532	63443-7532	Anvil Mount	1					
10	63443-0090	63443-0090	Wire Stop	1					
11	63890-0008	63890-0008	Front Plunger Striker	1					
12	63600-5776	63600-5776	Nose Hold Down	1					
13	63600-5775	63600-5775	Nose Hold Down Shank	1					
14	63443-4759	63443-4759	Terminal Guide	1					
15	63443-7403	63443-7403	Hold Down Block	1					
16	63808-0229	63808-0229	Bend Adjust Dial	1					
17	63443-3203	63443-3203	Wire Pusher	1					
18	63600-5016	63600-5016	Compression Spring	1					
19	63443-4412	63443-4412	Feed Cam	1					
			me						
20	63808-0200	63808-0200	Applicator Core	1					
21	63443-4601	63443-4601	Track	1					
22	63443-4602	63443-4602	Carrier Cover	1					
23	63443-4801	63443-4801	Drag Pad	1					
24	63808-0197	63808-0197	Mechanical Feed Assembly	1					
	1	Hard	ware						
25	_	_	M2.5 x 4 SHCS	1*					
26	_	-	M3 Flat Washer Hard	1*					
27	_	_	M3 Inner Tooth Lock Washer	1*					
28	_	_	M3 x 6 BHCS	2*					
29	_	_	M3 x 12 SHCS	4*					
30	_	_	M4 x 6 SHCS	1*					
31	_	_	M4 x 6 SSS	1*					
32	_	_	M4 x 8 SHCS	2*					
33	_	_	M4 x 40 SHCS	2*					
34	_	_	M5 x 12 SHCS	1*					
35	_	_	#10-32UNF x .25" BHCS	1*					

^{*}Fastener parts can be purchased through most industrial suppliers by using the description in the table above.

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ASSEMBLY DRAWING



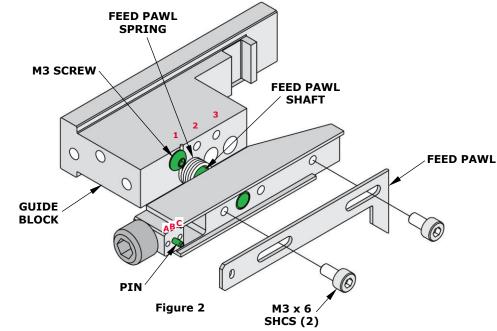
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FACTORY SETTINGS

Feed Pawl Assembly

The FA2 applicator number 63808-8000 ships with the following factory settings. See Figure 2:

- The feed pawl shaft and M3 screw that holds the feed pawl spring are in position 1.
- The pin is in position B.

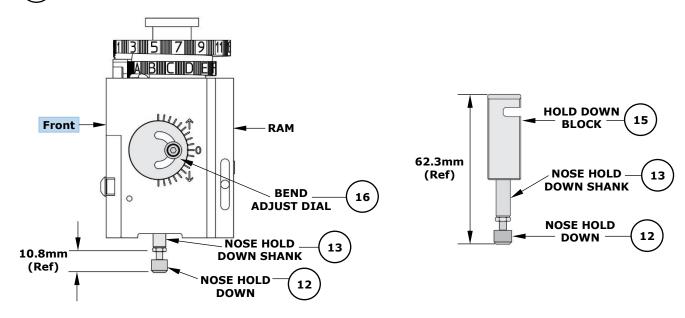


This information is included as a reference only. Each applicator is configured and tested by Molex prior to shipping, and the above settings were used to produce the included sample crimps.

Third Dial/Ram Assembly

Note

Indicates item number on the Parts List and Assembly Drawing



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Mounting Datum Location

This applicator was assembled and tested by Molex with the mounting datum in the location shown in Figure 3. Do not remove the mounting datum.

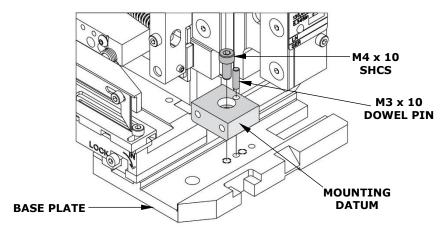


Figure 3

Application Tooling Support

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

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