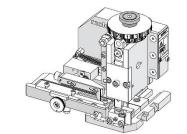
Order Number 63808-2500





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

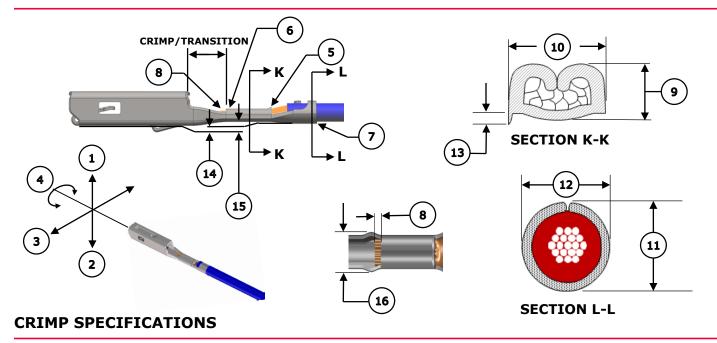
SCOPE

Products: MX150 ISO (M3) Receptacle Terminals: 0.35mm² and 0.50mm² type ISO wire.

Terminal Series No.	Terminal Order No.	Wire Type and Size		Insulation	n Diameter	Strip Length	
		Туре	mm²	mm	In.	mm	In.
	33001-3006, 33001-5005, 33012-3004, 34750-1004, 34780-1004	PSA FTP 00949_10_00766	0.35	1.20-1.40	.047055	4.70-5.60	.185220
33001		PSA FTP 00949_10_00767	0.50	1.40-1.70	.055067	4.70-5.60	.185220
33012		TZ3HID FLR91X-A-XLPO	0.35	1.20-1.40	.047055	4.70-5.60	.185220
34750			0.50	1.40-1.70	.055067	4.70-5.60	.185220
34780		JASO D611 (AVSS)		1.40-1.70	.055067	4.70-5.60	.185220
		AVSSB	0.50				
		JASO D608 (AVSSH)					

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DEFINITION OF TERMS



The following crimp specifications are based on document AS-33012-002 Rev. E:

Feature	Requirement							
1. Bend Up	1.5° Max							
2. Bend Down	1.5° Max							
3. Twist	3° Max							
4. Roll	3° Max							
5. Rear Bell Mouth	0.30-0.70mm (.012028")							
6. Front Bell Mouth	Not Applicable							
7. Cut-Off Tab	0.50mm (.020") Max							
	No Burr							
8. Conductor Brush	Not to extend above conductor crimp/transition height							
	Wire Typ		Wire Size		Crimp Height			
	PSA FTP 00949		0.35mm ²		1.05-1.11mm	.041043 in.		
					1.10-1.20mm	.041043 iii.		
	PSA FTP 00949_10_00767		0.50mm ² 0.35mm ²		1.02-1.08mm	.040042 in.		
9. Conductor Crimp Height	TZ3HID FLR91X-A-XLPO				1.05-1.15mm	.040042 iii.		
			0.50mm ² 0.50mm ²		1.05-1.15mm	.041045 in.		
	JASO D611 (AVSS) AVSSB							
	JASO D608 (AVSSH)							
10. Conductor Crimp Width	1.50-1.70mm (.059067")			I				
•	0.35mm ² 50 N 11.3 lb. To be measured with no influence			n influence from				
Pull Force	0.50mm ² 75 N				ne insulation crimp.			
	Wire Type		Wire Size		Crimp Height			
	PSA FTP 00949 10 00766		0.35mm ²		1.65-1.85mm	.065073 in.		
	PSA FTP 00949 10 00767		0.50mm ²		2.05-2.15mm	.081085 in.		
44	TZ3HID FLR91X-A-XLPO		0.35mm ²		1.65-1.85mm	.065073 in.		
11. Insulation Crimp Height			0.50mm ²		1.80-2.00mm	.071079 in.		
	JASO D611 (AVSS)		0.50mm ²		1.95-2.05mm	.077081 in.		
	AVSSB				1.05 1.05			
12. 1. 1. 1	JASO D608 (AVSSH)		0.50mm ²		1.85-1.95mm	.073077 in.		
12. Insulation Crimp Width	1.90-2.10mm (.075083")							
13. Conductor Anvil Flash	Height Not to extend beyond lowest point of conductor crimp Width 0.1mm (.004") Max							
14 Inculation Cain Chan								
14. Insulation Grip Step	0.15±0.30mm (.006±.008") 0.30±0.15mm (.008±.006")							
15. Conductor Grip Step	2.55mm (.100") Max within the crimp/transition area							
16. Crimp Bulge	_ 2.55mm (.100°)	Max within t	ne crimp/trai	ısıtı	ion area			

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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.

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 stranded 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

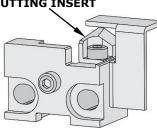
CAUTION: This applicator must be installed in a press with a standard shut height of 135.80mm (5.346"). Tooling damage could result at a lower setting.

CAUTION: To prevent injury, never operate this applicator without the quards 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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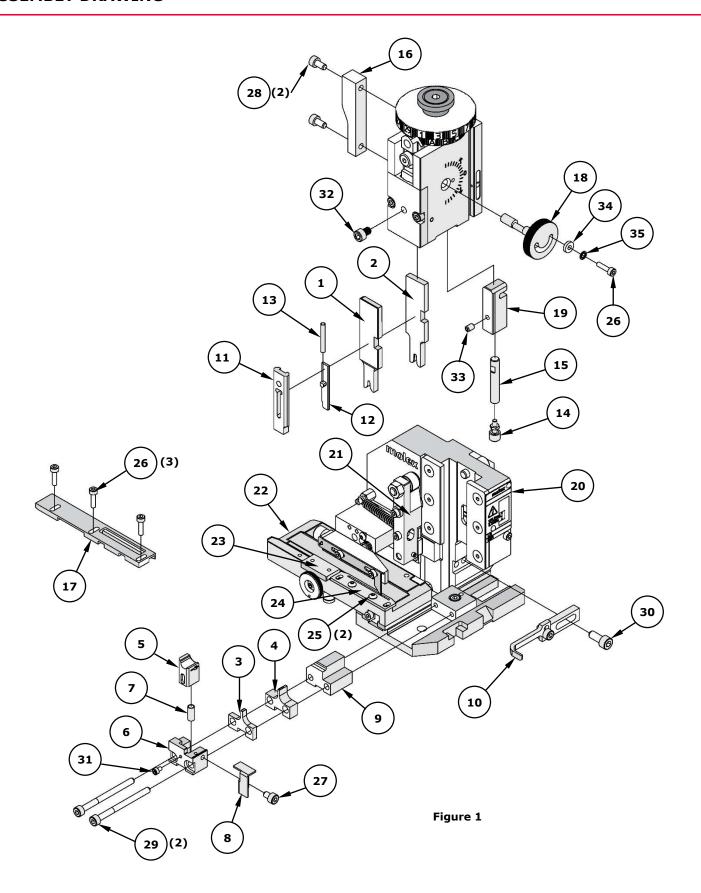


PARTS LIST

	Applicator 63808-2500								
Item	Order No.	Engineering No.	Description	Quantity					
Perishable Tooling									
	63808-2570	63808-2570	Tool Kit (All "Y" Items)	REF					
1	63454-0172	63454-0172	Insulation Punch	1 Y					
2	63457-1502	63457-1502	Conductor Punch	1 Y					
3	63456-0078	63456-0078	Insulation Anvil	1 Y					
4	63455-0098	63455-0098	Conductor Anvil	1 Y					
5	63443-0034	63443-0034	Cut-Off Plunger	1 Y					
Other Components									
6	63443-0128	63443-0128	Front Plunger Retainer	1					
7	11-24-1067	4996-4	Cut-Off Plunger Spring	1					
8	63443-0117	63443-0117	Front Scrap Chute	1					
9	63443-7501	63443-7501	Anvil Mount	1					
10	63443-0090	63443-0090	Wire Stop	1					
11	63443-2804	63443-2804	Front Plunger Striker	1					
12	63443-2915	63443-2915	Wire Hold Down Plunger	1					
13	63600-0021	63600-0021	Wire Hold Down Spring	1					
14	63600-5776	63600-5776	Nose Hold Down	1					
15	63600-5775	63600-5775	Nose Hold Down Shank	1					
16	63443-4412	63443-4412	Feed Cam	1					
17	63443-4716	63443-4716	Terminal Guide	1					
18	63808-0229	63808-0229	Bend Adjust Dial	1					
19	63808-0220	63808-0220	Hold Down Block	1					
		Fi	ame						
20	63808-0200	63808-0200	Applicator Core	1					
21	63808-0197	63808-0197	Mechanical Feed	1					
22	63443-4601	63443-4601	Track	1					
23	63443-4801	63443-4801	Drag Pad	1					
24	63443-4602	63443-4602	Carrier Cover	1					
		Har	dware						
25	_		M3 by 6 Long BHCS	2*					
26	_		M3 by 12 Long SHCS	4*					
27	_		M4 by 6 Long SHCS	1*					
28	_		M4 by 8 Long SHCS	2*					
29	_	1	M4 by 50 Long SHCS	2*					
30	_	_	M5 by 12 Long SHCS	1*					
31	_		M2.5 by 4 Long SHCS	1*					
32	_	-	#10-32UNF by .25" Long SHCS	1*					
33	_	_	M4 by 6 Long Set Screw	1*					
34	_	_	M3 Flat Washer Hard	1*					
35	_	_	M3 Inner Tooth Lock Washer	1*					
	*	Available from an in	dustrial supply company.						

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ASSEMBLY DRAWING



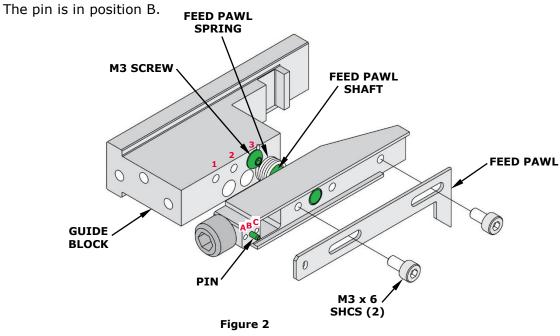
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FACTORY SETTINGS

Feed Pawl Assembly

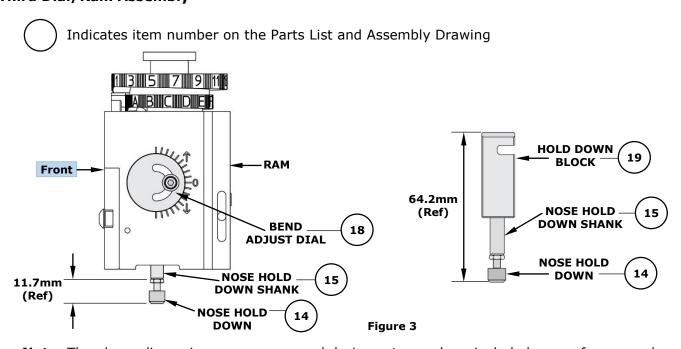
The FA2 applicator number 63808-2500 ships with the following factory settings. See Figure 2:

• The feed pawl shaft and M3 screw that holds the feed pawl spring are in position 3.



Note: 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: The above dimensions were measured during setup and are included as a reference only. Additional adjustments may be required before crimping for production.

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FA2 Crimp Applicator for MX150 ISO (M3) Receptacle Terminals

Application Tooling Support

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E-Mail: applicationtooling@molex.com

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