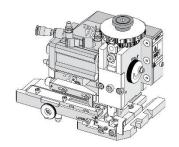
Order Number 63808-2610







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 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
- This applicator is configured with a pneumatic feed, which requires a 4-way pneumatic valve for operation

SCOPE

Products: MX150 18 Grip Receptacle for 20 AWG and 0.75mm² wire.

Terminal Series No.	Terminal Order No.	Wire		Insulation Diameter		Strip Length	
		Wire Type	Wire Size	mm	In.	mm	In.
33001 33012 34750	33001-3004 33001-5002 33012-3002 34750-1002	GXL	20 AWG	1.60-2.54	.063100	4.70-5.60	.185220
		HIFLON	20 AWG	1.60-2.54	.063100	4.70-5.60	.185220
		TXL	20 AWG	1.60-2.54	.063100	4.70-5.60	.185220
		EXRAD BLOCKED	0.75 mm ²	1.60-2.54	.063100	4.70-5.60	.185220
		PSA FTP 00949_10_00768	0.75 mm ²	1.60-2.54	.063100	4.70-5.60	.185220
		FLR91X-A-XLPO M1I-126A1 EXRAD UNBLOCKED	0.75 mm²	1.60-2.54	.063100	4.70-5.60	.185220

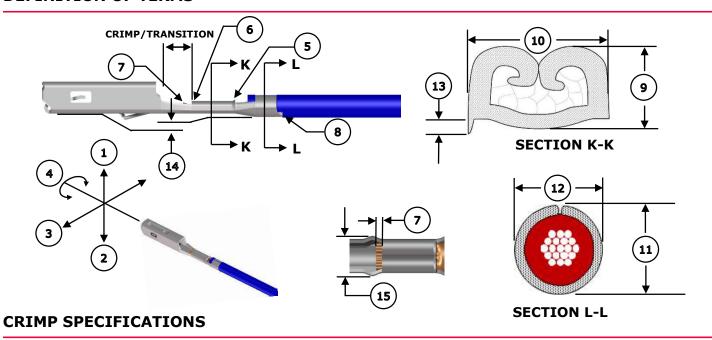
CAUTION: This applicator was designed for use in a wire processor only.

CAUTION: To operate the pneumatic feed, a 4-way pneumatic valve is required.

Page 1 of 7 Doc. No: 638082610 Release Date: 09-21-18 **UNCONTROLLED COPY** Revision Date: 10-03-18

Revision: A1

DEFINITION OF TERMS



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

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 (.012028")							
6. Bell Mouth Front	Not Applicable							
7. Conductor Brush	0.40mm (.016") Not to extend above conductor crimp/transition height							
8. Cut-Off Tab	0.50mm (.020") Max No Burr							
	Wire Type	Wire Size	9. Crim	Height	10. Crim	p Width		
	GXL	20 AWG	1.10-1.20mm	.043047 in.	2.05-2.25mm	.081089 in.		
	HIFLON	20 AWG	1.10-1.20mm	.043047 in.	2.05-2.25mm	.081089 in.		
Conductor Crimp	TXL	20 AWG	1.10-1.20mm	.043047 in.	2.05-2.25mm	.081089 in.		
Conductor Crimp	EXRAD BLOCKED	0.75 mm ²	1.10-1.20mm	.043047 in.	2.05-2.25mm	.081089 in.		
	PSA FTP 00949_10_00768	0.75 mm ²	1.25-1.35mm	.049053 in.	2.05-2.25mm	.081089 in.		
	FLR91X-A-XLPO M1l-126A1 EXRAD UNBLOCKED	0.75 mm²	1.20-1.30mm	.047051 in.	2.05-2.25mm	.081089 in.		
	Wire Type	Wire Size	11. Crim	p Height	12. Crim	p Width		
	GXL	20 AWG	1.90-2.10mm	.075083 in.	2.20-2.40mm	.087094 in.		
	HIFLON	20 AWG	1.80-2.35mm	.071093 in.	2.00-2.20mm	.079087 in.		
Insulation Crimp	TXL	20 AWG	1.80-2.00mm	.071079 in.	2.00-2.20mm	.079087 in.		
Thisulation Crimp	EXRAD BLOCKED	0.75 mm ²	2.25-2.35mm	.089093 in.	2.00-2.20mm	.079087 in.		
	PSA FTP 00949_10_00768	0.75 mm ²	2.25-2.35mm	.089093 in.	2.00-2.20mm	.079087 in.		
	FLR91X-A-XLPO M1l-126A1 EXRAD UNBLOCKED	0.75 mm²	.089093mm	.089093 in.	2.00-2.20mm	.079087 in.		

Page 2 of 7 Doc. No: 638082610 Release Date: 09-21-18 **UNCONTROLLED COPY**

Revision: A1 Revision Date: 10-03-18

	Wire Type	Wire Size	Minimum Force		
	GXL	20 AWG	75 N	16.9 lb.	
	HIFLON	20 AWG	75 N	16.9 lb.	
Pull Force	TXL	20 AWG	75 N	16.9 lb.	To be measured with no
Pull Force	EXRAD BLOCKED	0.75 mm ²	90 N	20.3 lb.	influence from the insulation
	PSA FTP 00949_10_00768	0.75 mm ²	90 N	20.3 lb.	crimp.
	FLR91X-A-XLPO M1l-126A1 EXRAD UNBLOCKED	0.75 mm²	90 N	20.3 lb.	
13. Conductor Anvil Flash	0.22mm (.009") Max				
14. Insulation Grip Step	0.20-0.40mm (.008016")				
15. Crimp Bulge	2.65mm (.104") Max within crimp/transition area				

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.

Doc. No: 638082610 Release Date: 09-21-18 **UNCONTROLLED COPY** Page 3 of 7 Revision: A1 Revision Date: 10-03-18

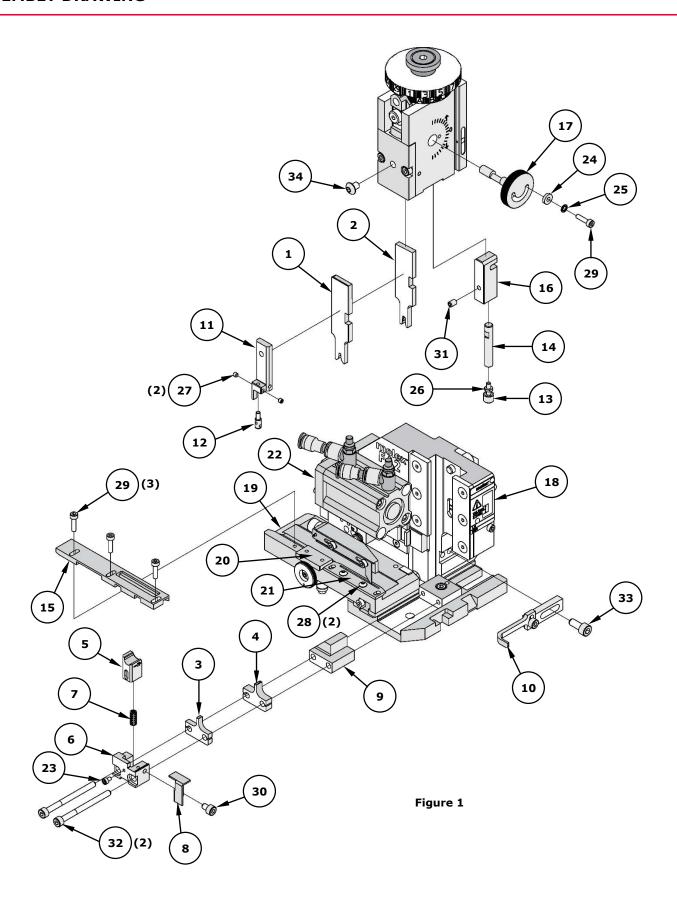
PARTS LIST

Section Color Co	FA2 Applicator 63808-2610								
G3808-2670 G3808-2670 Tool Kit (All "Y" Items) Ref	Item	Order No.			Quantity				
1 63454-0171 63454-0171 Insulation Punch 1 Y 2 63457-0117 63457-0117 Conductor Punch 1 Y 3 63456-2002 63456-2002 Insulation Anvil 1 Y 4 63455-0145 63455-0145 Conductor Anvil 1 Y 5 63443-0034 63443-0034 Front Plunger 1 Y Non-Perishable 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 Shute 1 9 63443-7502 63443-0117 Front Scrap Shute 1 10 63443-017 Front Scrap Shute 1 11 63443-017 63443-017 Front Scrap Shute 1 12 63443-017 Front Scrap Shute 1 13 6360-501 63443-017 Front Plunger Striker 1 14 63443-43-302 Wire Hold Down Plunger </th <th colspan="8"></th>									
2 63457-0117 63457-0117 Conductor Punch 1 Y 3 63456-2002 63456-2002 Insulation Anvil 1 Y 4 63455-0145 63455-0145 Conductor Anvil 1 Y 5 63443-0034 Front Plunger 1 Y Non-Perishable Components 6 63443-0128 Front Plunger Retainer 1 7 11-24-1067 4996-4 Cut-Off Plunger Spring 1 8 63443-0117 63443-0117 Front Scrap Shute 1 9 63443-7502 63443-7502 Anvil Mount 1 10 63443-0909 Wire Stop 1 11 63443-3601 63443-0990 Wire Stop 1 12 63443-3702 63443-3702 Wire Hold Down Plunger 1 13 63600-5776 63600-5776 Nose Hold Down Shank 1 15 63443-4714 63443-4714 Terminal Guide 1 16 63808-0229 63808-0229 Bend Adjust Dial 1		63808-2670	63808-2670	Tool Kit (All "Y" Items)	Ref				
3	1	63454-0171	63454-0171	Insulation Punch	1 Y				
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18 63808-0200 Applicator Core 1 19 63443-4601 63443-4601 Track Assembly 1 20 63443-4801 63443-4801 Drag Pad 1 21 63443-4602 63443-4602 Carrier Cover 1 22 63808-0196 63808-0196 Pneumatic Feed Assembly 1 Hardware 23 — — M2.5 by 4 Long SHCS 1* 24 — — M3 Flat Washer Hard 1* 25 — — M3 Inner Tooth Lock Washer 1* 26 — — M3 Hex Nut 1* 27 — — M3 by 3 Long SSS 2* 28 — — M3 by 6 long BHCS 2* 29 — — M3 by 12 Long SHCS 4*	17	63808-0229	63808-0229	Bend Adjust Dial	1				
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20 63443-4801 Brag Pad 1 21 63443-4602 63443-4602 Carrier Cover 1 22 63808-0196 63808-0196 Pneumatic Feed Assembly 1 Hardware 23 — — M2.5 by 4 Long SHCS 1* 24 — — M3 Flat Washer Hard 1* 25 — — M3 Inner Tooth Lock Washer 1* 26 — — M3 Hex Nut 1* 27 — — M3 by 3 Long SSS 2* 28 — — M3 by 6 long BHCS 2* 29 — — M3 by 12 Long SHCS 4*	18	63808-0200	63808-0200	Applicator Core	1				
21 63443-4602 63443-4602 Carrier Cover 1 22 63808-0196 Pneumatic Feed Assembly 1 Hardware 23 — — M2.5 by 4 Long SHCS 1* 24 — — M3 Flat Washer Hard 1* 25 — — M3 Inner Tooth Lock Washer 1* 26 — — M3 Hex Nut 1* 27 — — M3 by 3 Long SSS 2* 28 — — M3 by 6 long BHCS 2* 29 — — M3 by 12 Long SHCS 4*	19	63443-4601	63443-4601	Track Assembly	1				
22 63808-0196 Pneumatic Feed Assembly 1 Hardware 23 — — M2.5 by 4 Long SHCS 1* 24 — — M3 Flat Washer Hard 1* 25 — — M3 Inner Tooth Lock Washer 1* 26 — — M3 Hex Nut 1* 27 — — M3 by 3 Long SSS 2* 28 — — M3 by 6 long BHCS 2* 29 — — M3 by 12 Long SHCS 4*	20	63443-4801	63443-4801	Drag Pad					
Hardware 23 — — M2.5 by 4 Long SHCS 1* 24 — — M3 Flat Washer Hard 1* 25 — — M3 Inner Tooth Lock Washer 1* 26 — — M3 Hex Nut 1* 27 — — M3 by 3 Long SSS 2* 28 — — M3 by 6 long BHCS 2* 29 — — M3 by 12 Long SHCS 4*		63443-4602	63443-4602	Carrier Cover					
23 — M2.5 by 4 Long SHCS 1* 24 — M3 Flat Washer Hard 1* 25 — M3 Inner Tooth Lock Washer 1* 26 — — M3 Hex Nut 1* 27 — — M3 by 3 Long SSS 2* 28 — — M3 by 6 long BHCS 2* 29 — M3 by 12 Long SHCS 4*	22	63808-0196	63808-0196	Pneumatic Feed Assembly	1				
24 — — M3 Flat Washer Hard 1* 25 — — M3 Inner Tooth Lock Washer 1* 26 — — M3 Hex Nut 1* 27 — — M3 by 3 Long SSS 2* 28 — — M3 by 6 long BHCS 2* 29 — — M3 by 12 Long SHCS 4*									
25 — — M3 Inner Tooth Lock Washer 1* 26 — — M3 Hex Nut 1* 27 — — M3 by 3 Long SSS 2* 28 — — M3 by 6 long BHCS 2* 29 — — M3 by 12 Long SHCS 4*		_	_	M2.5 by 4 Long SHCS					
26 — — M3 Hex Nut 1* 27 — — M3 by 3 Long SSS 2* 28 — — M3 by 6 long BHCS 2* 29 — — M3 by 12 Long SHCS 4*	24	_	_	M3 Flat Washer Hard	1*				
27 — — M3 by 3 Long SSS 2* 28 — — M3 by 6 long BHCS 2* 29 — — M3 by 12 Long SHCS 4*	25	_	_	M3 Inner Tooth Lock Washer	1*				
28 — — M3 by 6 long BHCS 2* 29 — — M3 by 12 Long SHCS 4*	26	1	_	M3 Hex Nut	1*				
29 — — M3 by 12 Long SHCS 4*	27	_	_	M3 by 3 Long SSS	2*				
	28	_	_	M3 by 6 long BHCS	2*				
	29		_	M3 by 12 Long SHCS	4*				
30 — — — M4 by 6 Long SHCS 1*	30		_	M4 by 6 Long SHCS	1*				
31 – M4 by 6 Long SSS 1*	31		_						
32 — — M4 by 50 Long SHCS 2*	32		_	M4 by 50 Long SHCS	2*				
33 - M5 by 12 Long SHCS 1*	33		_	M5 by 12 Long SHCS	1*				
34 — #10-32UNF by .25" Long BHCS 1*	34		_	#10-32UNF by .25" Long BHCS	1*				

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

Doc. No: 638082610 Release Date: 09-21-18 **UNCONTROLLED COPY** Page 4 of 7 Revision: A1 Revision Date: 10-03-18

ASSEMBLY DRAWING



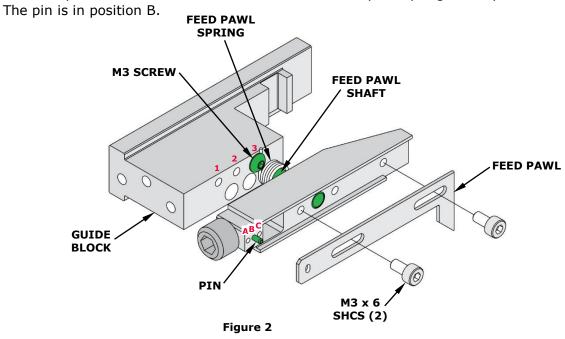
Doc. No: 638082610 Release Date: 09-21-18 **UNCONTROLLED COPY** Page 5 of 7 Revision: A1 Revision Date: 10-03-18

FACTORY SETTINGS

Feed Pawl Assembly

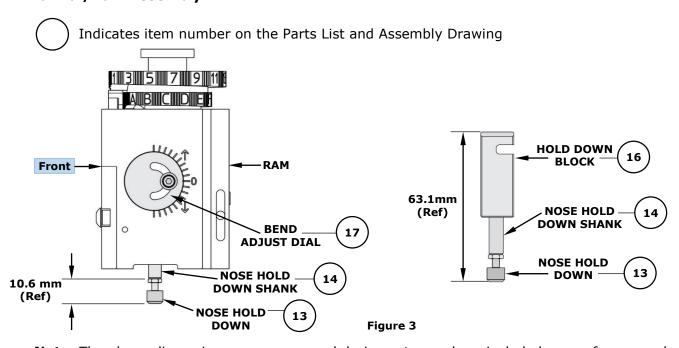
The FA2 applicator number 63808-2610 ships with the following factory settings. See Figure 2:

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.

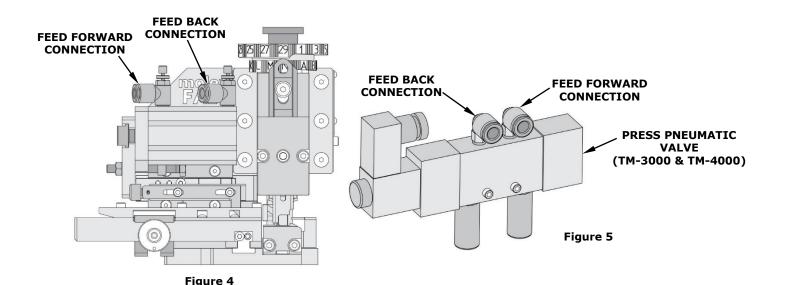
Doc. No: 638082610 Release Date: 09-21-18 **UNCONTROLLED COPY** Page 6 of 7 Revision: A1 Revision Date: 10-03-18

PNEUMATIC CONNECTION (AIR FEED)

- The pneumatic feed applicator uses a double-acting air cylinder that must be actuated by a 4-way pneumatic valve.
- The air cylinder is equipped with push-in fittings for 6mm diameter vinyl or Nylon tube. Adapters are included for 1/4" diameter and 4mm diameter vinyl or Nylon tube.

Note: The TM-3000 and TM-4000 presses have pneumatic valves with $\frac{1}{4}$ " diameter tube fittings. Be sure to install the $\frac{1}{4}$ " diameter adapters in the air cylinder fittings and use $\frac{1}{4}$ " diameter vinyl or Nylon tube.

- Pneumatic tubes must be connected as shown in Figure 4. Tubes are typically connected so the terminal feed is forward when the applicator ram is up.
- When using the TM-3000 or TM-4000 presses, connect the tubes to the press pneumatic valve as shown in Figure 5.



Application Tooling Support

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Doc. No: 638082610 Release Date: 09-21-18 **UNCONTROLLED COPY** Page 7 of 7 Revision: A1 Revision Date: 10-03-18