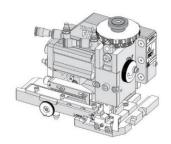
Order Number 63808-3910







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 0.015mm (.0006") for conductor crimp height and 0.025mm (.001") 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
- This applicator was designed for use in a wire processor only
- Fine adjustment of the bend is achieved using the bend adjust dial
- This applicator is configured with a pneumatic feed, which requires a 4-way pneumatic valve for operation

SCOPE

Products: CTX150 Sealed M Grip Terminals, 20 AWG, 0.75mm² wire.

Terminal Series	Terminal Order No.	Wire		Insulation Diameter		Strip Length	
No.		Wire Type	Size	mm	In.	mm	In.
502307	502307-0112 502307-0122	TXL	20 AWG	1.60-2.00	.063079	4.50-5.00	.177197
	502307-0412 502307-0422 502307-1112	T3-ZHID	0.75mm²	1.60-2.00	.063079	4.50-5.00	.177197
	502307-1122 502307-2112 502307-2122	FLRY-A					

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.

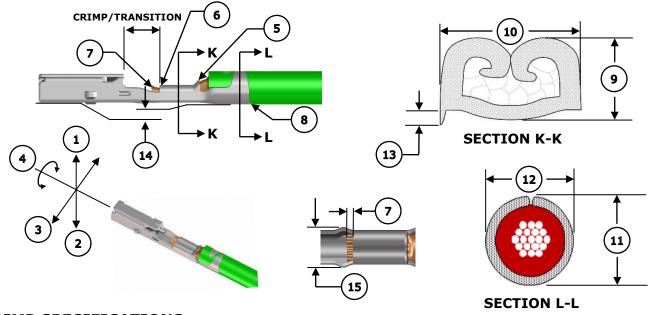
CAUTION: To ensure crimp quality and prolong crimp tool life, a terminal oiler is recommended. See

document ATS-638017240 for more information.

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DEFINITION OF TERMS



CRIMP SPECIFICATIONS

The following crimp specifications are based on document AS-502307-001 Rev. E:

Feature	Requirement							
1. Bend Up	1.5° Max							
2. Bend Down	1.5° Max							
3. Twist	4° Max							
4. Roll	6° Max							
5. Bell Mouth Rear	0.20-0.55mm (.008022")							
6. Bell Mouth Front	Not Applicable							
7. Conductor Brush	0.20-1.20mm (.008047")							
8. Cut-Off Tab	0.30mm (.012") Max							
	Wire Type	Wire Size	9. Crim	Height	10. Crimp Width			
Conductor Crimp	TXL	20 AWG	1.00-1.06mm	.039042 in.	1.55-1.65mm	.061065 in.		
Conductor Crimp	T3-ZHID	0.75mm ²	1.10-1.20mm	.043047 in.	1.55-1.65mm	.061065 in.		
	FLRY-A	0.75mm²	1.05-1.15mm	.041045 in.	1.60-1.70mm	.063067 in.		
	Wire Type	Wire Size	11. Crimp Height		12. Crimp Width			
Insulation Crimp	TXL	20 AWG	1.80-2.00mm	.071079 in.	2.10-2.30mm	.083091 in.		
	T3-ZHID	0.75mm ²	2.10-2.30mm	.083091 in.	2.25-2.45mm	.089096 in.		
	FLRY-A	0.75mm ²	2.25-2.45mm	.089096 in.	2.25-2.45mm	.089096 in.		
	Wire Type	Wire Size	Minimum Force					
Pull Force	TXL	20 AWG	90 N	20.3 lb.				
	T3-ZHID	0.75mm ²	115 N	25.9 lb.				
	FLRY-A	0.75mm ²	115 N	25.9 lb.				
13. Conductor Anvil Flash	sh 0.13mm (.005") Max							
14. Insulation Grip Step	0.00-0.30mm (.000012")							
15. Crimp Bulge	2.24mm (.088") Max within crimp/transition 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 feed jams in this applicator.

Specification Notes

• 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.

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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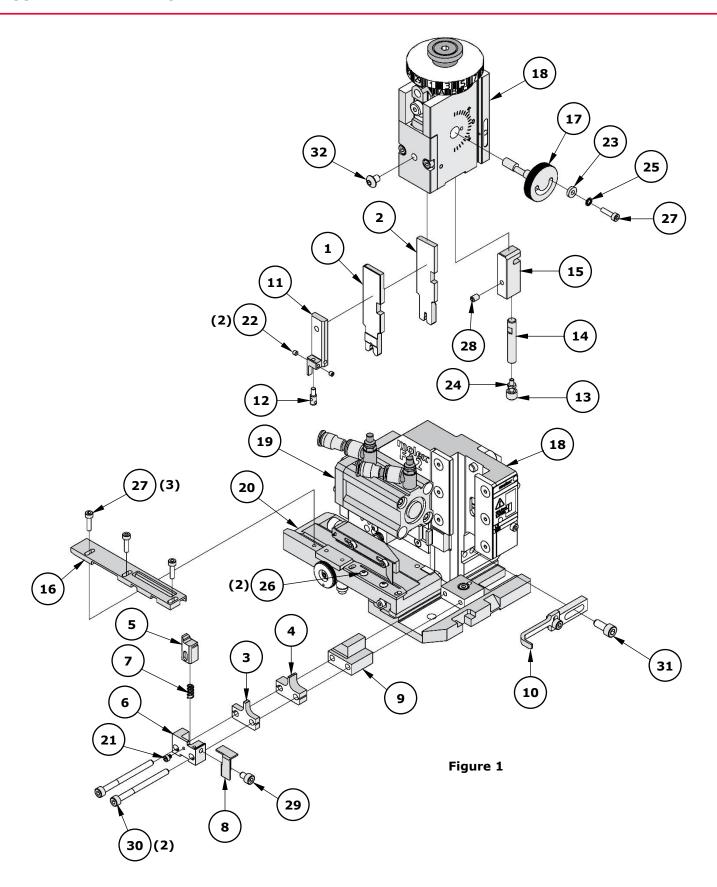
PARTS LIST

Applicator 63808-3910							
Item	Order No.	Engineering No.	Description	Quantity			
Perishable Tooling							
	63808-3970	63808-3970	Tool Kit (All "Y" Items)	Ref			
1	63454-2302	63454-2302	Insulation Punch	1 Y			
2	63457-1606	63457-1606	Conductor Punch	1 Y			
3	63456-2304	63456-2304	Insulation Anvil	1 Y			
4	63455-1604	63455-1604	Conductor Anvil	1 Y			
5	63443-0034	63443-0034	Cut-Off 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 Chute	1			
9	63443-7511	63443-7511	Anvil Mount	1			
10	63443-0090	63443-0090	Wire Stop Assembly	1			
11	63443-3601	63443-3601	Front Plunger Striker	1			
12	63443-3702	63443-3702	Wire Hold Down Plunger	1			
13	63600-5776	63600-5776	Nose Hold Down	1			
14	63600-5775	63600-5775	Nose Hold Down Shank	1			
15	63808-0220	63808-0220	Hold Down Block	1			
16	63443-4716	63443-4716	Terminal Guide	1			
17	63808-0229	63808-0229	Bend Adjust Dial	1			
		Fra	me				
18	63808-0200	63808-0200	Applicator Core	1			
19	63808-0196	63808-0196	Pneumatic Feed Assembly	1			
20	63808-0191	63808-0191	Track Assembly	1			
		Hard	ware				
21	_	_	M2.5 x 4 SHCS	1*			
22	_		M3 x 3 SSS	2*			
23	_	_	M3 Flat Washer Hard	1*			
24	_		M3 Hex Nut	1*			
25	_	l	M3 Inner Tooth Lock Washer	1*			
26	_	l	M3 x 6 BHCS	2*			
27	_	_	M3 x 12 SHCS	4*			
28	_	_	M4 x 5 SSS	1*			
29	_	_	M4 x 6 SHCS	1*			
30	_	_	M4 x 50 SHCS	2*			
31	_	_	M5 x 12 SHCS	1*			
32	_	_	#10-32UNF x .25" SHCS	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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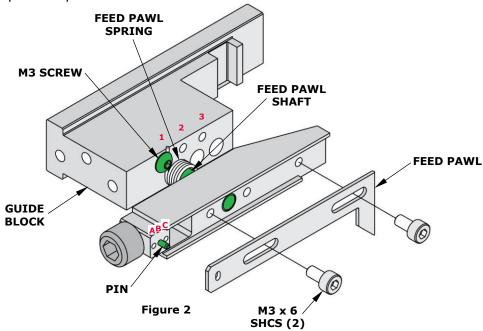
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FACTORY SETTINGS

Feed Pawl Assembly

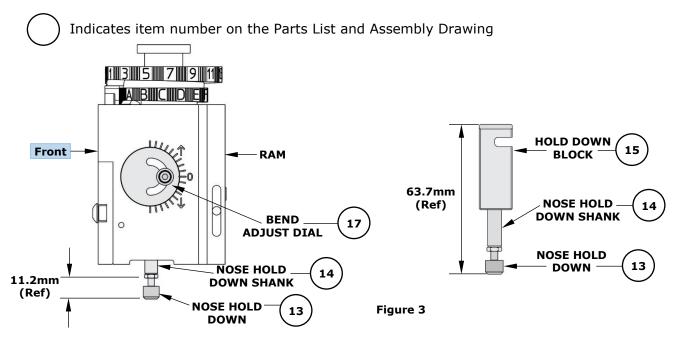
The FA2 applicator number 63808-3910 ships with the following factory settings. See Figure 2:

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



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



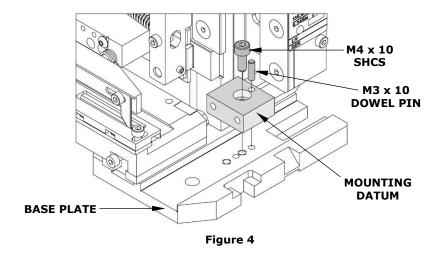
Note: The above dimensions were measured during setup and are included as a reference only. Additional adjustments may be required before crimping for production.

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Mounting Datum Location

This applicator was assembled and tested by Molex with the mounting datum in the location shown in Figure 4. Do not remove the mounting datum.



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 5. 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 6.

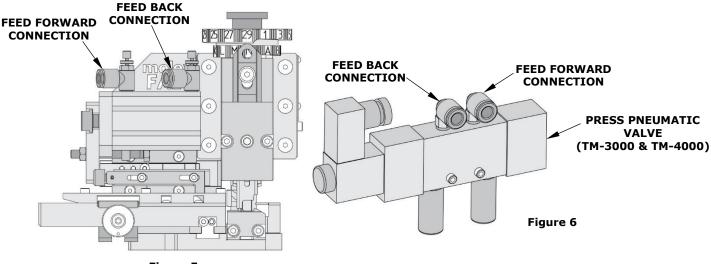


Figure 5

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Application Tooling Support

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

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