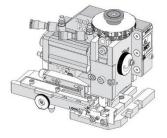
Order Number 63808-3510



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 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

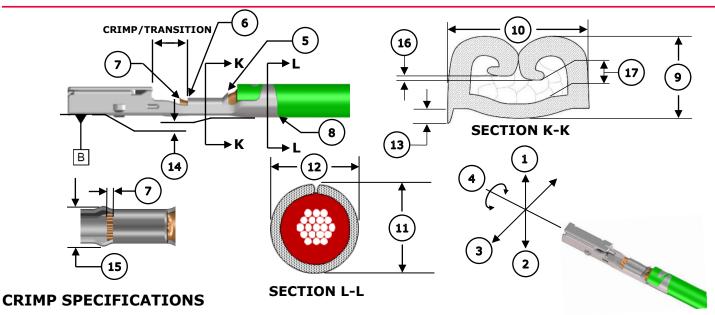
SCOPE

Products: CTX150 Receptacle S Grip Terminals, 22 AWG, 0.35mm² and 0.30mm² Wire.

Terminal Series	Terminal Order	Wire		Insulation Diameter		Strip Length	
No.	No.	Wire Type	Size	mm	In.	mm	In.
	502307-0111	TXL	22 AWG	1.25-1.70	.049067	4.50-5.00	.177197
		T3-ZHID	0.35mm ²				
502307		AVSS	0.30mm ²				
	502307-0411	T3-ZHID	0.35mm ²				
		FLRY-A	0.35mm ²				
	34805-0111	TXL	22 AWG				
34805		T3-ZHID	0.35mm ²				
		AVSS	0.30mm ²				
	34805-0411	T3-ZHID	0.35mm ²				
		FLRY-A	0.35mm ²				
34864	34864-0111	TXL	22 AWG				
		T3-ZHID	0.35mm ²				
		AVSS	0.30mm ²				
	34864-0411	T3-ZHID	0.35mm ²				
		FLRY-A	0.35mm ²				

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

DEFINITION OF TERMS



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") for Wire Types TXL, T3-ZHID and AVSS							
	0.20-0.65mm (.008026") for Wire Type FLRY-A							
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	9. Crimp Height		10. Crimp Width		
	TXL	22 AWG	0.85-0.91mm	.033036 in.	1.55-1.65mm	.061065 in.		
	FLRY-A	0.35mm ²	0.72-0.78mm	.028031 in.	1.55-1.65mm	.061065 in.		
	T3-ZHID				1.55-1.65mm	.061065 in.		
Conductor Crimp	XXXXX-0111	0.35mm ²	0.85-0.90mm	.033035 in.				
	Terminals							
	T3-ZHID	0.35mm ²	0.81-0.87mm	.032034 in.	1.55-1.65mm	.061065 in.		
	XXXXX-0411							
	Terminals							
	AVSS	0.30mm ²	0.77-0.83mm	.030033 in.	1.55-1.65mm	.061065 in.		
	Wire Type	Wire Size	11. Crimp Height		12. Crimp Width			
	TXL	22 AWG	1.55-1.75mm	.061069 in.	1.60-1.80mm	.063071 in.		
Insulation Crimp	FLRY-A	0.35mm ²	1.60-1.80mm	.063071 in.	1.75-1.95mm	.069077 in.		
	T3-ZHID All Terminals	0.35mm ²	1.60-1.80mm	.063071 in.	1.75-1.95mm	.069077 in.		
	AVSS	0.30mm ²	1.70-1.90mm	.067075 in.	1.75-1.95mm	.069077 in.		
	Wire Type	Wire Size	Minimum Force					
	TXL	22 AWG	50 N	11.3 lb.	To be measured with no influence from the insulation crimp.			
Pull Force	FLRY-A	0.35mm ²	60 N	13.5 lb.				
Fuill Ofce	T3-ZHID	0.35mm ²	60 N	13.5 lb.				
	All Terminals							
	AVSS	0.30mm ²	60 N	13.5 lb.				
13. Conductor Anvil Flash		,						
14. Insulation Grip Step	0.00-0.30mm (.000012") Below Datum B							
15. Crimp Bulge	2.24mm (.088") Max within crimp/transition area							
16. Wing Dissymmetry	0.25mm (.010") Max							
17. Space Between Wing Tips and Crimp Bottom	No Contact							

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

• This applicator should only be run in a properly set up wire processor to consistently achieve the brush length

General Notes

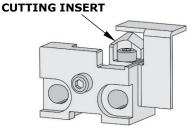
- 1. Molex recommends that an extra perishable tooling kit be maintained at your facility.
- 2. Verify tooling alignment by hand cycling the press and applicator before crimping under power. Check that all screws are tight.
- 3. Slugs, terminals, dirt and oil should be kept clear of the work area.
- 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.

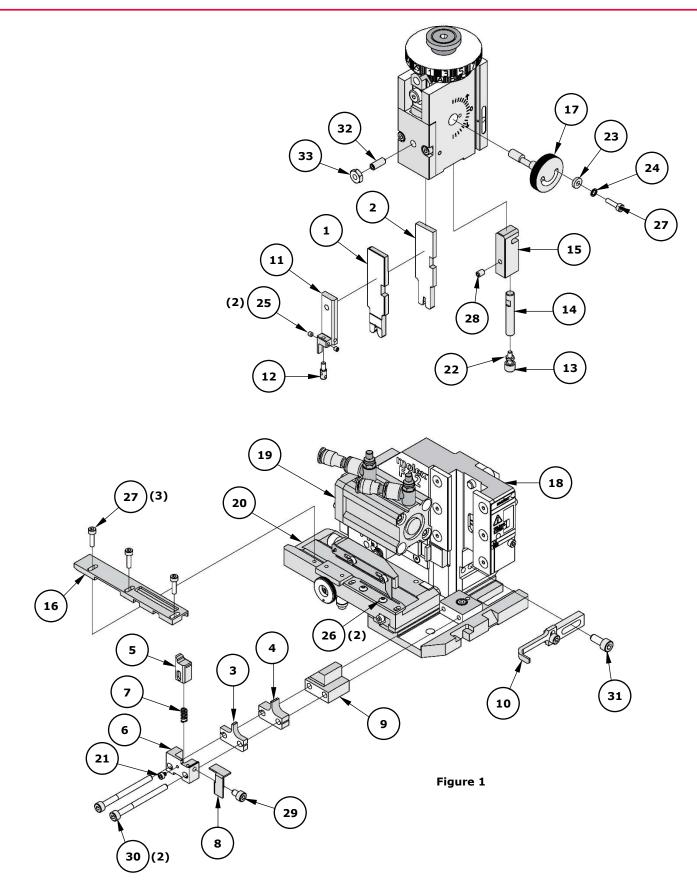
CAUTION: Molex tooling crimp specifications are valid only when used with Molex terminals and tooling manufactured by Molex and sold by Molex or authorized distributors ("Molex Tooling"). When using tooling other than Molex Tooling with Molex-specific connector systems listed in our ATS documents, the 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.



PARTS LIST

Item	Order No.	Applicator 6 Engineering No.	Description	Quantity
Item	order no.	Perishabl		Quantity
	63808-3570	63808-3570	Tool Kit (All "Y" Items)	Ref
1	63454-1806	63454-1806	Insulation Punch	1 Y
2	200216-1610	200216-1610	Conductor Punch	1 Y
3	63456-1804	63456-1804	Insulation Anvil	1 Y
4	63455-1604	63455-1604	Conductor Anvil	1 Y
5	63443-0121	63443-0121	Cut-Off Plunger	1 Y
	00110 0121	Non-Perishable		
6	63443-0118	63443-0118	Front Plunger Retainer	1
7	01124-1067	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	63443-3603	63443-3603	Front Plunger Striker	1
12	63443-3702	63443-3702	Striker Screw	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	Nose Hold Down Block	1
16	63443-4716	63443-4716	Terminal Guide	1
17	63808-0229	63808-0229	Bend Adjust Dial	1
		Fra		_
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
		Hardy		
21		—	M2.5 x 4 SHCS	1*
22	—	—	M3 Hex Nut	1*
23	_	_	M3 Flat Washer Hard	1*
24	—	—	M3 Inner Tooth Lock Washer	1*
25	—	—	M3 x 3 SSS	2*
26	—	—	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 45 SHCS	2*
31	_	—	M5 x 12 SHCS	1*
32	—	—	M5 x 10 Long Cup Point SSS	1*
33	—	—	M5 Hex Jam Nut	1*
*Fa	stener parts can	be purchased throug description in th	gh most industrial suppliers by us ne table above.	sing the

ASSEMBLY DRAWING

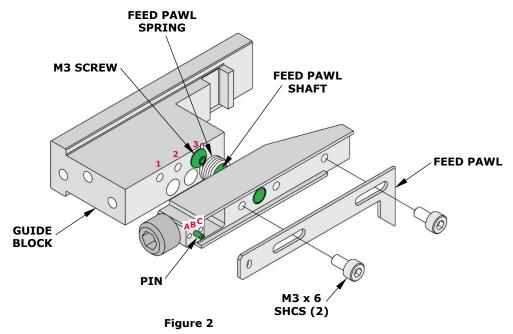


FACTORY SETTINGS

Feed Pawl Assembly

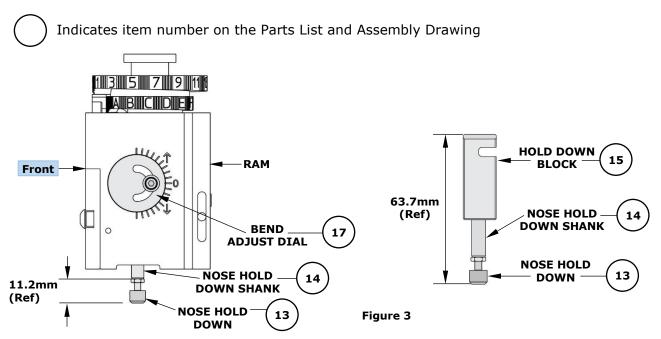
The FA2 applicator number 63808-3510 ships with the following factory settings. See Figure 2:

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

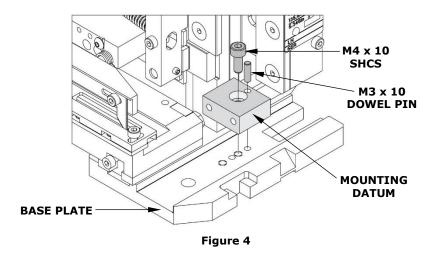
Third Dial/Ram Assembly



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

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.

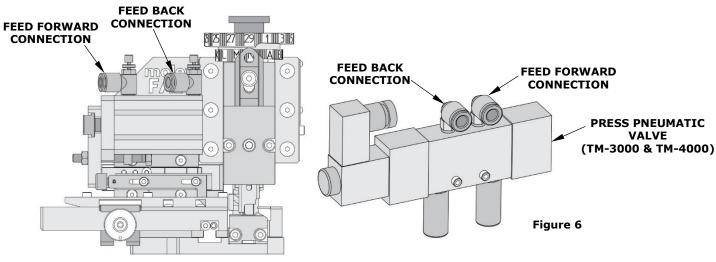


Figure 5

Application Tooling Support

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

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