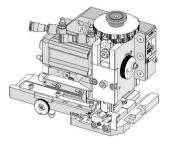
Order Number 63808-7310





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
- 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
- This applicator was designed for use in a wire processor only
- This applicator is configured with a pneumatic feed, which requires a 4-way pneumatic valve for operation

SCOPE

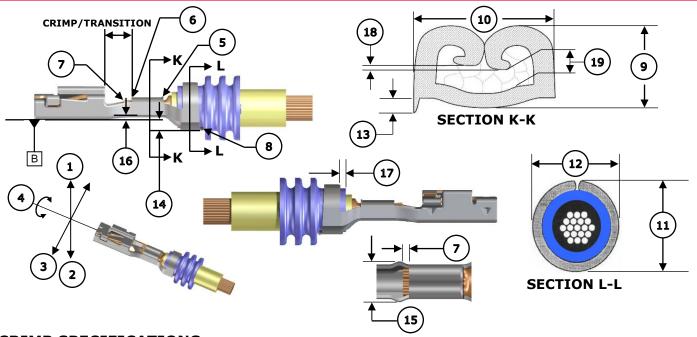
Terminal	Terminal Order No.		Wire		Insulation Diameter		Strip Length	
Series No.			Wire Type	Size	mm	In.	mm	In.
	98675-1004	98675-1064						
00675	98675-1014	98675-1104						
98675	98675-1044	98675-1114						
	98675-1054							
24065	34865-1004	34865-1064		5.00mm ²				.169189
34865	34865-1044	34865-1104	T3-ZHID	4.00mm ²	3.40-3.90	.134154	4.30-4.80	
	34808-1004	34808-2004						
	34808-1044	34808-2012						
34808	34808-1064	34808-2020						
	34808-1074	34808-2028						
	34808-1104	34808-2180						

Products: CTX280 L Grip Receptacle Wire Seal, 5.00mm² and 4.00mm² wire.

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.

DEFINITION OF TERMS



CRIMP SPECIFICATIONS

The following crimp specifications are based on document AS-98675-002 Revision F5:

Feature	Requiremen	t						
1. Bend Up	1° Max							
2. Bend Down	1° Max							
3. Twist	2° Max							
4. Roll	3° Max							
5. Bell Mouth Rear	0.40-0.60mm (.016024")							
6. Bell Mouth Front	Not Applicable							
7. Conductor Brush	0.20-0.60mm	n (.008024″))					
8. Cut-Off Tab	0.30mm (.01	2") Max						
	Wire Type	Wire Size	9. Crim	p Height	10. Crim	p Width		
Conductor Crimp	T3ZHID	5.00mm ²	2.10-2.20mm	.083087 in.	3.40-3.60mm	.134142 in.		
		4.00mm ²	1.95-2.05mm	.077081 in.				
	Wire Type	Wire Size	11. Crim	p Height	12. Crimp Width			
Insulation Crimp	T3ZHID 5.00mm ² 5.25-5.45mm .207215 in. 4.95-5.15mm .195201 4.00mm ² 4.90-5.10mm .193201 in. 4.95-5.15mm .195201	105 202 in						
		4.00mm ²	4.90-5.10mm	.193201 in.	4.95-5.15000	.192203 1[].		
	Wire Type	Wire Size	Minimu	m Force				
Pull Force	T3ZHID	5.00mm ²	320 N	71.9 lb.	To be measured with no influen			
		4.00mm ²	320 N	71.9 lb.	from the insulation crimp.			
13. Conductor Anvil Flash	0.10mm (.00	4") Max						
14. Insulation Grip Step	1.35-1.55mm	n (.053061″)) Below Datum B					
15. Crimp Bulge	4.15mm (.16	3") Max withi	n crimp/transition a	rea				
16. Conductor Grip Step	0.00-0.10mm	n (.000004″)) Below Datum B, 0.	00-0.10mm (.0000	004") Above Datum	В		
	Wire Type	Wire Size	17. Wire Seal Position (Terminal)		Wire Seal Color	Wire Seal No.		
	T3ZHID	5.00mm ²	1.10-2.50mm	.043098 in.	Blue	64325-1366		
	1321110	4.00mm ²	1.10-2.30000	.045090 III.	Diue	0+323-1300		
Misc.	Wire Type	Wire Size	j,	issymmetry	19. Space Between Wing Tips and Crimp Bottom			
	T3ZHID	5.00mm ² 4.00mm ²	0.00-0.32mm	.000013 in.	0.16-2.50mm	.036098 in.		

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

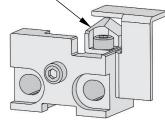
- 1. Molex recommends that an extra perishable tooling kit be maintained at your facility.
- 2. Verify tooling alignment by hand cycling the press and applicator before crimping under power. Check that all screws are tight.
- 3. Slugs, terminals, dirt and oil should be kept clear of the work area.
-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

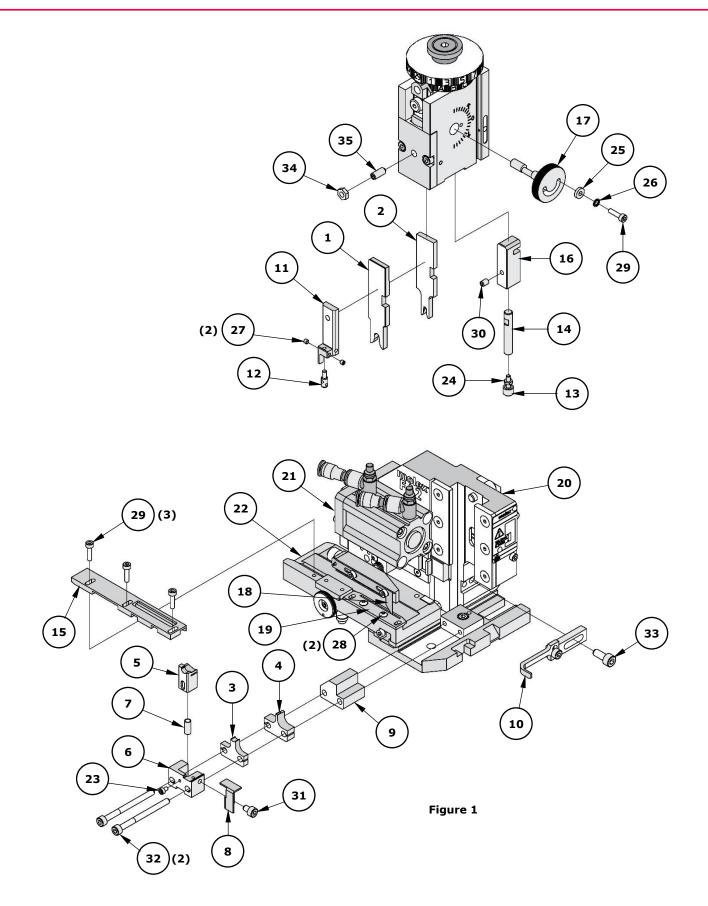


CUTTING INSERT

PARTS LIST

[tem	Order No.	Engineering No.	tor 63808-7310 Description	Quantity
Item	order No.		ble Tooling	Quantity
	63808-7370	63808-7370	Tool Kit (All "Y" Items)	Ref
1	63454-0111	63454-0111	Insulation Punch	1 Y
2	63457-3402	63457-3402	Conductor Punch	1 Y
3	63456-4901	63456-4901	Insulation Anvil	1 Y
4	63455-3401	63455-3401	Conductor Anvil	1 Y
5	63443-0142	63443-0142	Cut-Off Plunger	1 Y
5	05445 0142		ble Components	1
6	63443-0135	63443-0135	Front Plunger Retainer	1
7	63700-0992	63700-0992	Cut-Off Plunger Spring	1
8	63443-0117	63443-0117	Front Scrap Chute	1
9	63443-7522	63443-7522	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	63443-4757	63443-4757	Terminal Guide	1
16	63808-0220	63808-0220	Hold Down Block	1
17	63808-0229	63808-0229	Bend Adjust Dial	1
18	63443-1230	63443-1230	Feed Pawl	1
19	63443-4603	63443-4603	Carrier Cover	1
19	03443-4003		rame	<u> </u>
20	63808-0200	63808-0200	Applicator Core	1
21	63808-0196	63808-0196	Pneumatic Feed Assembly	1
22	63808-0191	63808-0191	Track Assembly	1
22	05000 0151		rdware	
23	_		M2.5 x 4 SHCS	1*
24	_	_	M3 Hex Nut	1*
25	_	_	M3 Flat Washer Hard	1*
26			M3 Inner Tooth Lock Washer	1*
20			M3 x 3 SSS	2*
28			M3 x 6 BHCS	2*
20			M3 x 12 SHCS	4*
30			M4 x 5 SSS	1*
31			M4 x 6 SHCS	1*
32			M4 x 50 SHCS	2*
33			M4 x 50 SHCS M5 x 12 SHCS	1*
34	_			1*
34			#10-32 Hex Jam Nut	1*
22	— —		#10-32 by 3/8"Long Flat Point SSS	T

ASSEMBLY DRAWING

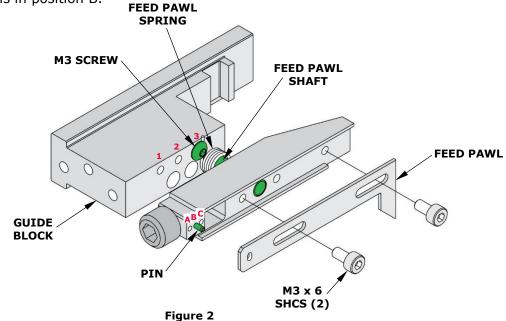


FACTORY SETTINGS

Feed Pawl Assembly

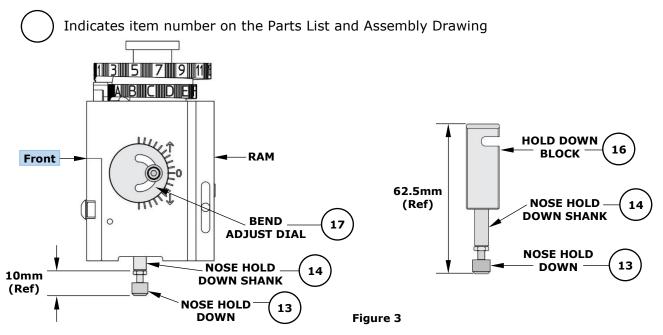
The FA2 applicator number 63808-7310 ships with the following factory settings. See Figure 2:

- 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.

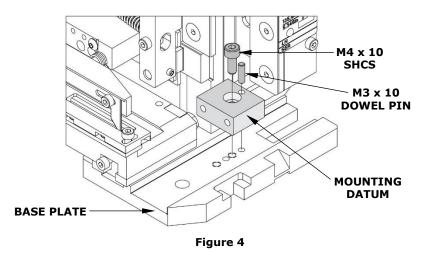
Third Dial/Ram Assembly



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.

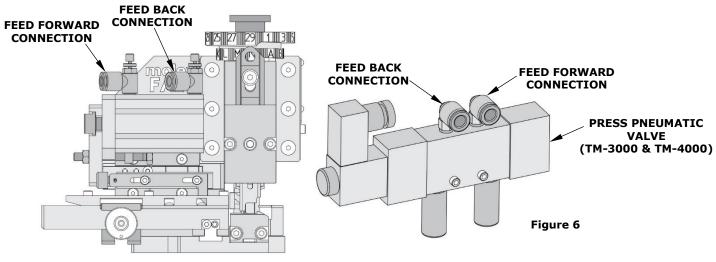


Figure 5

Application Tooling Support

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

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