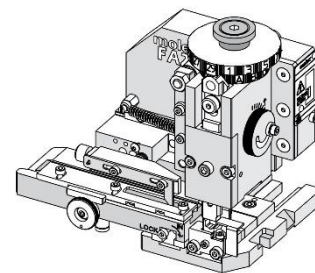


Order Number
63808-5900



Application Tooling Specification



FEATURES

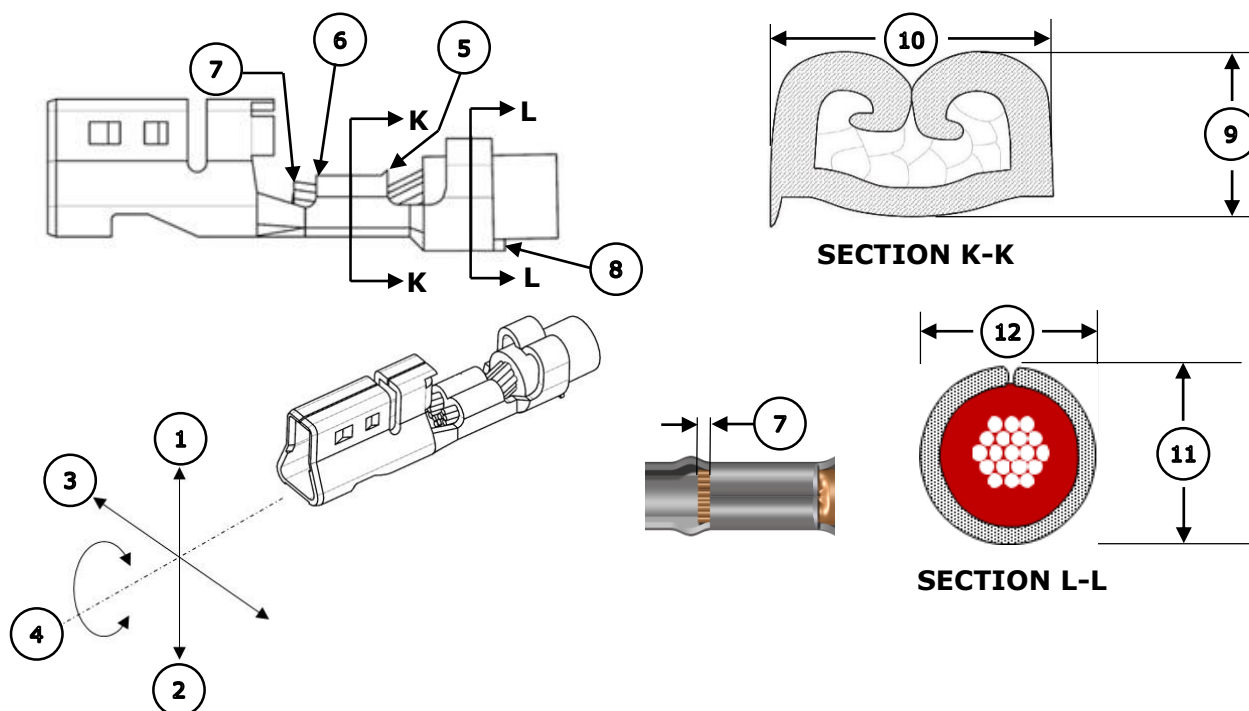
- Applicator designed to industry-standard mounting and 135.80mm (5.346") shut height
- Quick setup time; plus, the crimp height, track and feed adjustments can be set without removing the applicator from the press
- Fine adjustment allows users to achieve target with little effort by adjusting in increments of .015mm (.0006") for conductor crimp height and .025mm (.001") for insulation height
- 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
- Fine adjustment of the bend is achieved using the bend adjust dial

SCOPE

Products: Mini-Lock Crimp Terminals, 22-20 AWG wire.

Terminal Series No.	Terminal Order No.	Wire		(1) Insulation Diameter		Strip Length	
		Wire Type	Size	mm	In.	mm	In.
50752	50752-8200	UL1569	22 AWG	1.45-1.75	.057-.069	2.30-2.80	.091-.110
			20 AWG				
(1) To achieve optimum IPC/WHMA-A-620 insulation crimps, use this insulation OD range.							

DEFINITION OF TERMS



CRIMP SPECIFICATIONS

Feature	Requirement					
1. Bend Up	3° Max					
2. Bend Down	3° Max					
3. Twist	3° Max					
4. Roll	6° Max					
5. Bell Mouth Rear	0.05-0.40mm (.002-.016")					
6. Bell Mouth Front	Not Applicable					
7. Conductor Brush	0.80mm (.031") Max					
8. Cut-Off Tab	0.20mm (.008") Max					
Conductor Crimp	Wire Type	Wire Size	9. Crimp Height		10. Crimp Width	
	UL1569	22 AWG	0.81-0.86mm	.032-.034 in.	1.40-1.46mm	.055-.057 in.
	UL1569	20 AWG	0.90-0.98mm	.035-.039 in.	1.40-1.46mm	.055-.057 in.
Insulation Crimp	Wire Type	Wire Size	11. Crimp Height		12. Crimp Width	
	UL1569	22 AWG	1.92-2.00mm	.076-.079 in.	1.80-1.95mm	.071-.077 in.
	UL1569	20 AWG	1.95-2.00mm	.077-.079 in.	1.80-1.95mm	.071-.077 in.
Pull Force	Wire Type	Wire Size	Minimum Force		To be measured with no influence from the insulation crimp.	
	UL1569	22 AWG	39.2 N	8.8 lb.		
	UL1569	20 AWG	49 N	11.0 lb.		

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

FA2 Applicator 63808-5900				
Item	Order No.	Engineering No.	Description	Quantity
Perishable Tooling				
	63808-5970	63808-5970	Tool Kit (All "Y" Items)	Ref
1	63454-1807	63454-1807	Insulation Punch	1 Y
2	63457-1407	63457-1407	Conductor Punch	1 Y
3	63456-1805	63456-1805	Insulation Anvil	1 Y
4	63455-1405	63455-1405	Conductor Anvil	1 Y
5	63443-0136	63443-0136	Cut-Off Plunger	1 Y
6	63443-0119	63443-0119	Cutting Insert	1 Y
Non-Perishable Components				
7	63443-0118	63443-0118	Front Plunger Retainer	1
8	11-24-1067	4996-4	Cut-Off Plunger Spring	1
9	63443-0117	63443-0117	Front Scrap Chute	1
10	63443-7527	63443-7527	Anvil Mount	1
11	63443-0090	63443-0090	Wire Stop Assembly	1
12	63443-2806	63443-2806	Front Plunger Striker	1
13	63443-2922	63443-2922	Wire Hold Down Plunger	1
14	63600-0021	63600-0021	Wire Hold Down Spring	1
15	63600-5776	63600-5776	Nose Hold Down	1
16	63600-5775	63600-5775	Nose Hold Down Shank	1
17	63443-4703	63443-4703	Terminal Guide	1
18	63443-7404	63443-7404	Hold Down Block	1
19	63808-0229	63808-0229	Bend Adjust Dial	1
20	63443-4410	63443-4410	Feed Cam	1
Frame				
21	63808-0200	63808-0200	Applicator Core	1
22	63808-0197	63808-0197	Mechanical Feed Assembly	1
Hardware				
23	—	—	M2.5 x 3 SHCS	2*
24	—	—	M3 Flat Washer Hard	1*
25	—	—	M3 Hex Nut	1*
26	—	—	M3 Inner Tooth Lock Washer	1*
27	—	—	M3 x 6 BHCS	2*
28	—	—	M3 x 12 SHCS	4*
29	—	—	M4 x 5 SSS	1*
30	—	—	M4 x 6 SHCS	1*
31	—	—	M4 x 8 SHCS	2*
32	—	—	M4 x 45 SHCS	2*
33	—	—	M5 x 12 SHCS	1*
34	—	—	#10-32UNF x .25" SHCS	1*
*Fastener parts can be purchased through most industrial suppliers by using the description in the table above.				

ASSEMBLY DRAWING

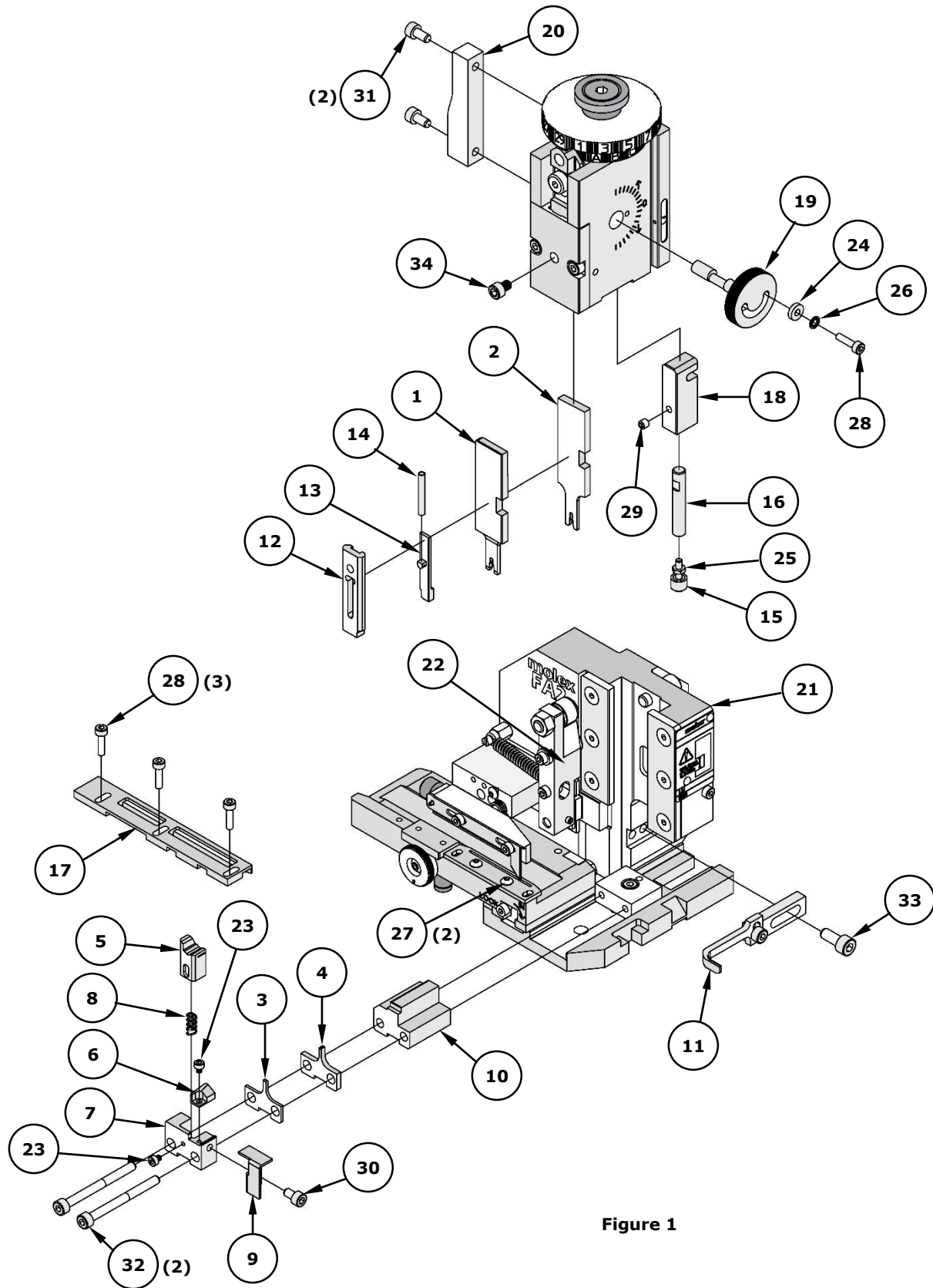


Figure 1

FACTORY SETTINGS

Feed Pawl Assembly

The FA2 applicator number 63808-5900 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 2.
- The pin is in position C.

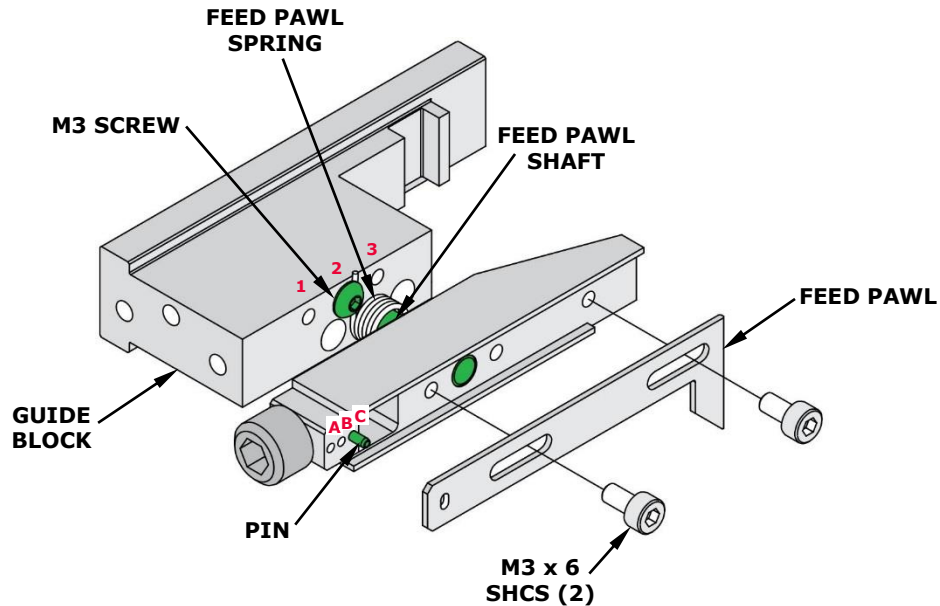


Figure 2

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

○ Indicates item number on the Parts List and Assembly Drawing

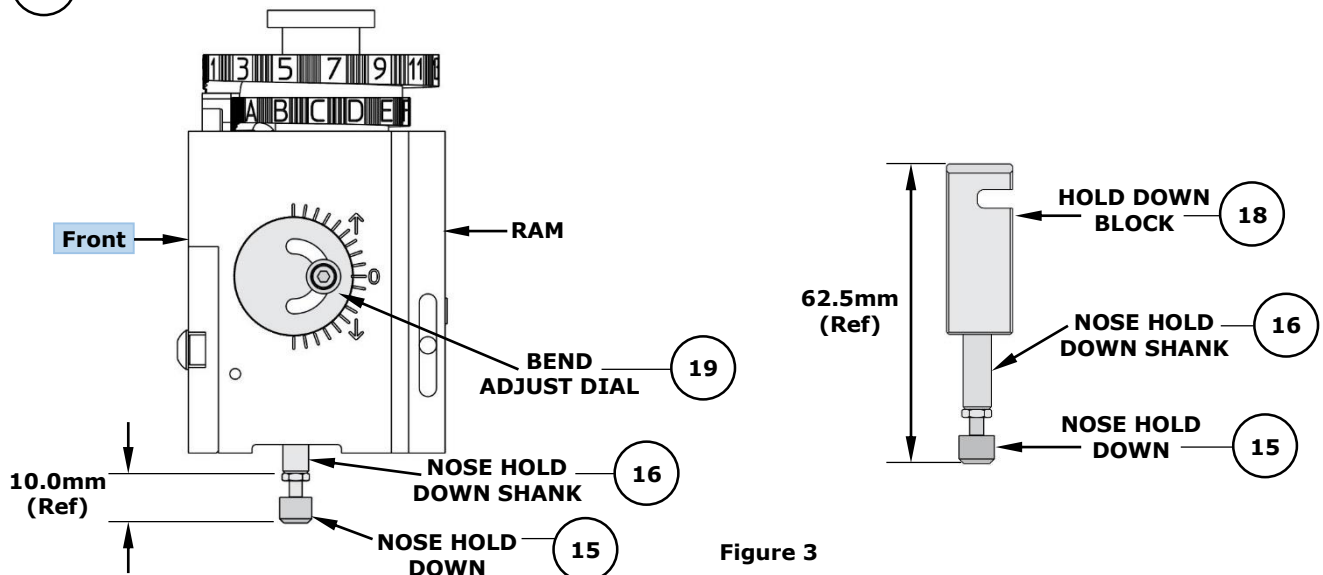


Figure 3

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.

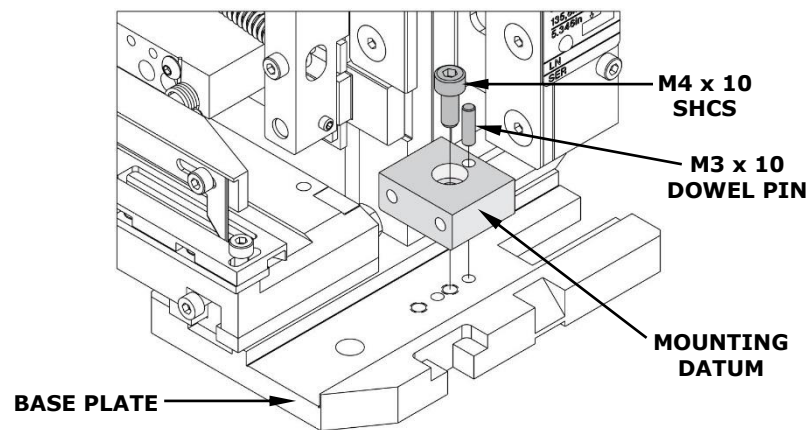


Figure 4

Application Tooling Support

Phone: (402) 458-TOOL (8665)

E-Mail: applicationtooling@molex.com

Website: www.molex.com/applicationtooling

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