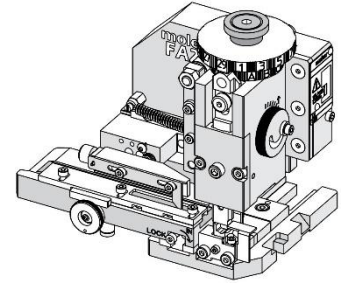


Order Number
63808-9800

molex

Application Tooling Specification



FEATURES

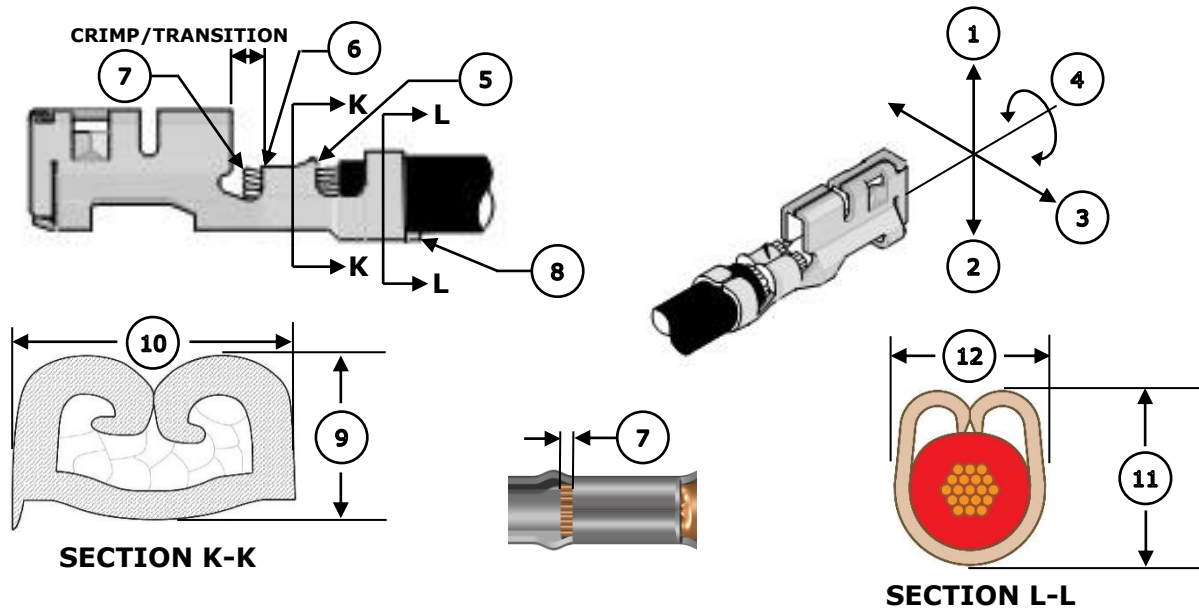
- Applicator designed to industry-standard mounting and 135.80mm (5.346") shut height
- Quick setup time; plus, the crimp height, track and feed adjustments can be set without removing the applicator from the press
- Fine adjustment allows users to achieve target with little effort by adjusting in increments 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
- Directly adapts to most automatic wire processing machines

SCOPE

Products: 2mm W/B DuraClik ISL Series Receptacle Terminals, 0.22mm² Wire.

Terminal Series No.	Terminal Order No.	Applicable Wire	Wire Size	Insulation Diameter		Strip Length	
			mm ²	mm	In.	mm	In.
560124	560124-0201	LEONI Mocar® 150 C	0.22	1.10-1.20	.043-.047	1.30-1.80	.051-.071
560236	560236-0201						

DEFINITION OF TERMS



CRIMP SPECIFICATIONS

Feature	Requirement				
1. Bend Up	4° Max				
2. Bend Down	3° Max				
3. Twist	3° Max				
4. Roll	4° Max				
5. Bell Mouth Rear	0.05-0.35mm (.002-.014")				
6. Bell Mouth Front	Not Applicable				
7. Conductor Brush	0.00-0.50mm (.000-.020")				
8. Cut-Off Tab	0.15mm (.006") Max				
Conductor Crimp	Wire Size	9. Crimp Height		10. Crimp Width	
	0.22mm ²	0.61-0.66mm	.024-.026 in.	0.95-1.05mm	.037-.041 in.
Insulation Crimp	Wire Size	11. Crimp Height		12. Crimp Width (Ref)	
	0.22mm ²	1.28-1.38mm	.050-.054 in.	1.40-1.50mm	.055-.059 in.
Pull Force	Wire Size	Minimum Force			
	0.22mm ²	40 N	9 lb.	To be measured with no influence from the insulation crimp.	

Tool Qualification Notes

1. LEONI "Mocar® 150 C" 0.22mm² wire and terminal 560124-0201 validated to VW 60330 (Rev. 2013-12) Section 4.3.4 and 5.5.1.
2. LEONI "Mocar® 150 C" 0.22mm² wire and terminal 560124-0201 validated to VW 75174 (LV214) Rev. 2010-04.
3. Pull force qualification may not meet 1.67 Cpk.

NOTES

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 when operating or maintaining the applicator.
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 this terminal to prevent terminal from sticking in the conductor punch and to minimize conductor crimp flash. 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.

PARTS LIST

FA2 Applicator 63808-9800				
Item	Order No.	Engineering No.	Description	Quantity
Perishable Tooling				
	63808-9870	63808-9870	Tool Kit (All "Y" Items)	Ref
1	63446-1430	63446-1430	Insulation Punch	1 Y
2	63457-0014	63457-0014	Conductor Punch	1 Y
3	63456-1305	63456-1305	Insulation Anvil	1 Y
4	63455-1009	63455-1009	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	11-24-1067	4996-4	Cut-Off Plunger Spring	1
8	63443-0117	63443-0117	Front Scrap Chute	1
9	63443-0118	63443-0118	Front Plunger Retainer	1
10	63443-7404	63443-7404	Hold Down Block	1
11	63600-5775	63600-5775	Nose Hold Down Shank	1
12	63443-2807	63443-2807	Front Plunger Striker	1
13	63443-4704	63443-4704	Terminal Guide	1
14	63443-4405	63443-4405	Feed Cam	1
15	63443-2923	63443-2923	Wire Hold Down Plunger	1
16	63600-2097	63600-2097	Compression Spring	1
17	63808-0229	63808-0229	Bend Adjust Dial	1
18	63443-7315	63443-7315	Terminal Hold Down Plunger	1
19	200213-7509	200213-7509	Anvil Mount	1
20	63443-7316	63443-7316	Terminal Hold Down Retainer	1
21	63443-1700	63443-1700	Height Spacer (17.00mm)	1
22	63443-7322	63443-7322	Terminal Hold Down	1
23	63700-0992	63700-0992	Terminal Hold Down Plunger Spring	1
Frame				
24	63808-0200	63808-0200	Applicator Core	1
25	63808-0197	63808-0197	Mechanical Feed Assembly	1
26	63808-0191	63808-0191	Track Assembly	1
Hardware				
27	—	—	M2.5 x 3 SHCS	2*
28	—	—	M3 Hex Nut	1*
29	—	—	M3 Flat Washer Hard	1*
30	—	—	M3 Inner Tooth Lock Washer	1*
31	—	—	M3 x 6 BHCS	2*
32	—	—	M3 x 8 SHCS	2*
33	—	—	M3 x 12 SHCS	4*
34	—	—	M4 x 4 SSS	1*
35	—	—	M4 x 6 SHCS	1*
36	—	—	M4 x 8 SHCS	2*
37	—	—	M4 x 45 SHCS	2*
38	—	—	#10-32 by 1/2" Long Flat Point SSS	1*
39	—	—	#10-32 Hex Jam Nut	1*
*Fastener parts can be purchased through most industrial suppliers by using the description in the table above.				

ASSEMBLY DRAWING

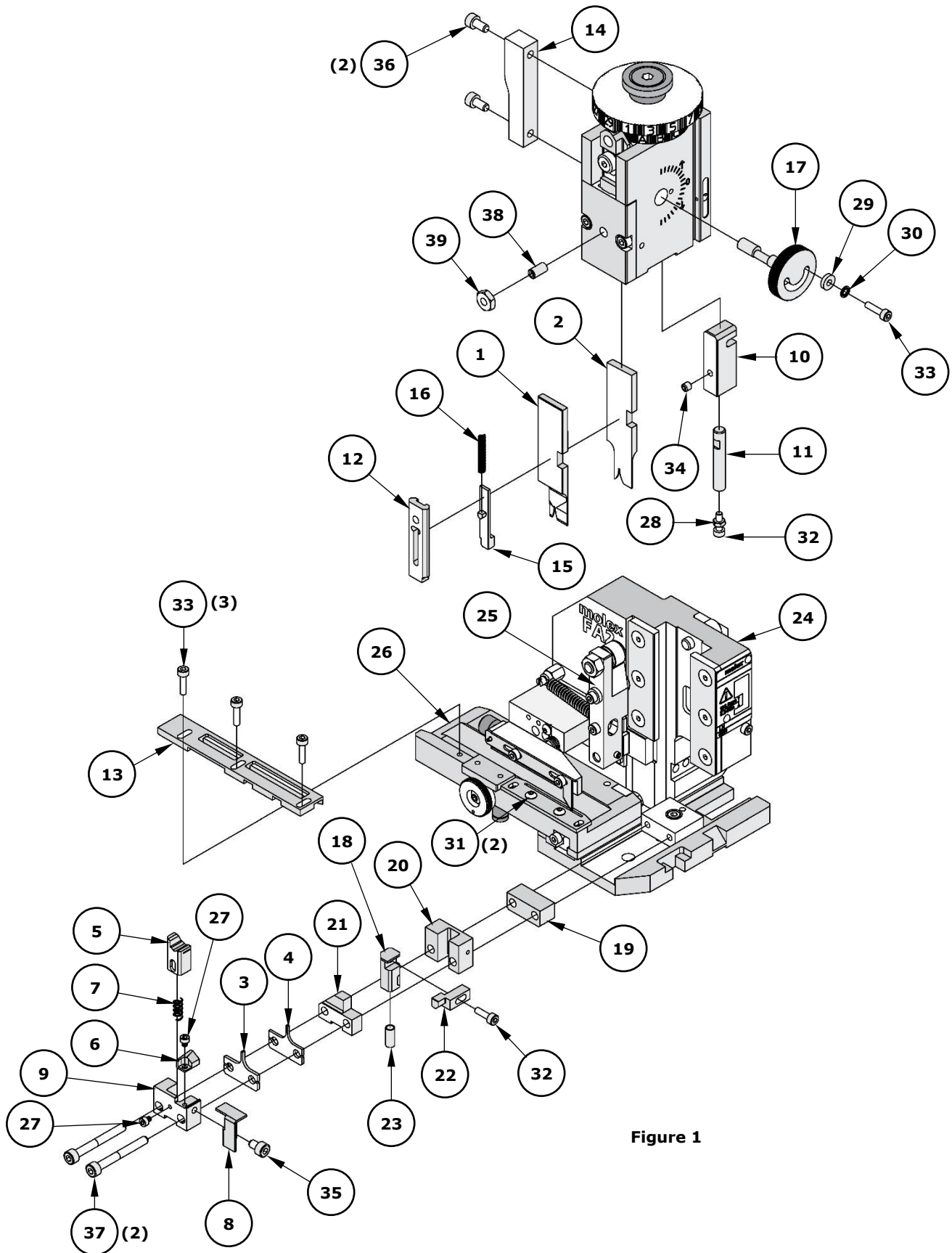


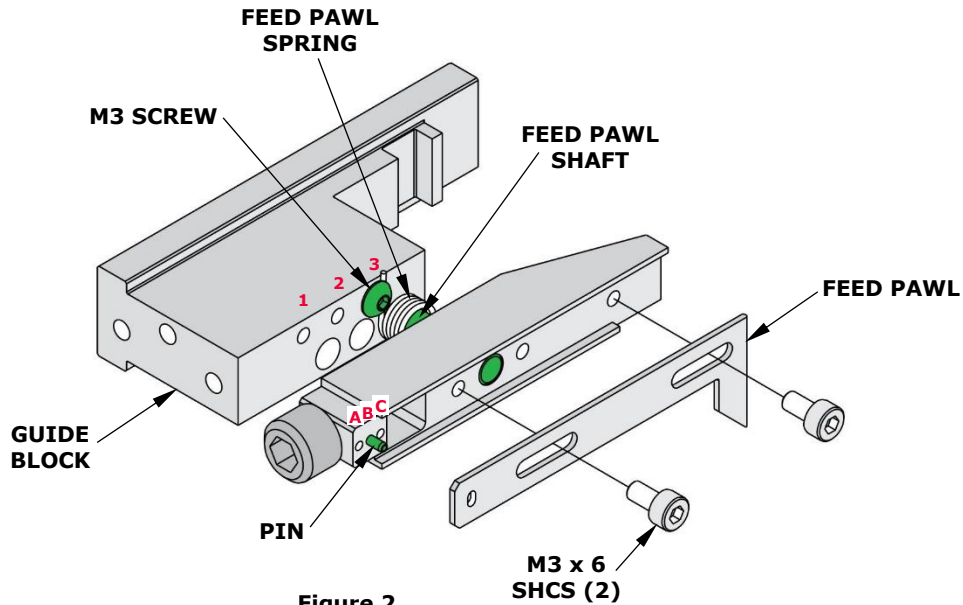
Figure 1

FACTORY SETTINGS

Feed Pawl Assembly

The FA2 applicator number 63808-9800 ships with the following factory settings. See Figure 2:

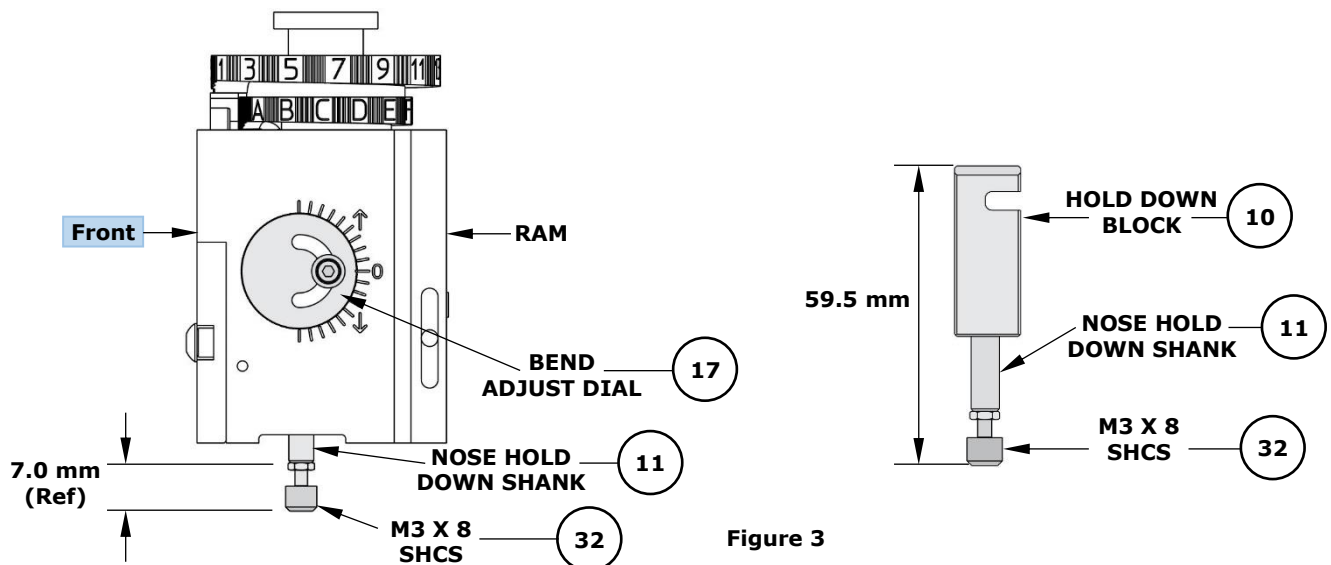
- The feed pawl shaft and M3 screw that holds the feed pawl spring are in position 3.
- The pin is in position B.



Note: Each applicator is configured and tested by Molex prior to shipping, and the above settings were used to produce the included sample crimps.

Bend Adjust Dial/Ram Assembly

○ Indicates item number on the Parts List and Assembly Drawing



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

CAUTION: A tooling crash may occur if any of the following conditions exist:

- The M3 x 8 SHCS extends more than 7.0mm from the nose hold down shank
- The overall length of the hold down block, shank, and M3 SHCS exceeds 59.5mm
- The bend adjust dial is adjusted too far down
- The press shut height is less than 135.80mm (5.346")

If in doubt, hand-cycle the press (without terminals in the applicator) to ensure all tooling moves freely.

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.

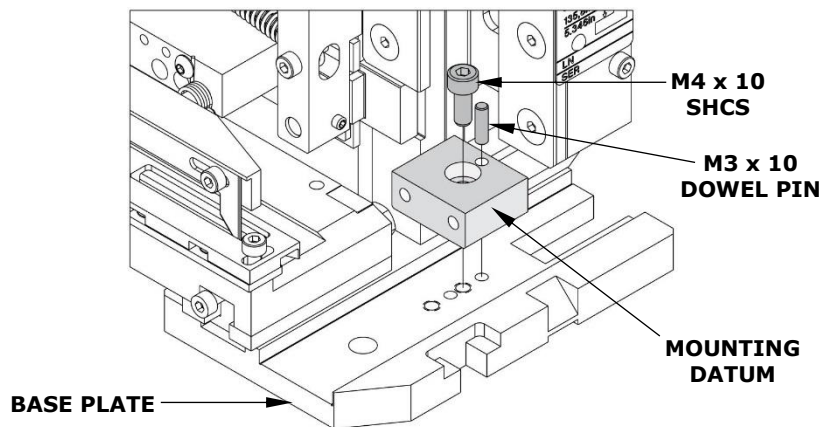


Figure 4

Application Tooling Support

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

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