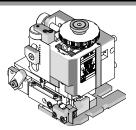


Fine Adjust Applicator

Application Tooling Specification Sheet



Order No. 63903-8900

FEATURES

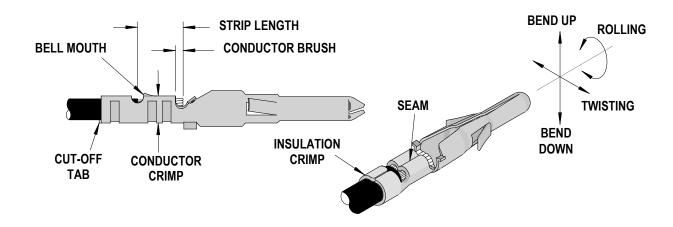
- Directly adapts to most automatic wire processing machines
- Quick punch removal with the push of a button for fast and easy tooling change
- Applicator designed to industry standard mounting and shut height 135.80mm (5.346")
- Quick set-up time; plus the crimp height, track and feed adjustments can 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 .063mm (.0025") for insulation height
- Independent adjustment rings allow users to quickly adjust the conductor or insulation crimp height without affecting each other

SCOPE

Products: Poseidon II Terminals, 16 AWG UL1061, 18 AWG UL1007 and 18 AWG UL1095 wires.

Terminal Series No.	Terminal Order No.	Wire Size Insulation		Diameter	Strip Length		
Terminal Series No.	Terminal Order No.	AWG	mm ²	mm	ln.	mm	In.
173041	173041-0001	16-18		1.90-2.05	.075081	3.18-3.80	.125150
173042	173042-0001	16-18		1.90-2.05	.075081	3.18-3.80	.125150

DEFINITION OF TERMS



The above terminal drawing is a generic terminal representation. It is not an image of a terminal listed in the scope.

Release Date: 02-25-16 Revision Date: 02-25-16 **UNCONTROLLED COPY**

CRIMP SPECIFICATIONS

Terminal Series No.	Bell n	Bell mouth Cut-off Tab Max. Cut-off Tab (Contact side) (Insulation		Bell mouth			+ Conduc	tor Brush
	mm	ln.	mm	In.	mm	In.	mm	ln.
173041	0.10-0.60	.004024	0.13	.005	0.30	.012	0.25-0.50	.010020
173042	0.10-0.60	.004024	0.13	.005	0.30	.012	0.25-0.50	.010020
✦ To achieve the conductor brush specification, special care must be taken, or a light touch								

must be maintained while presenting wire against the wire stop.

	Dand up [Twie	t Roll	Punch Width (Ref)				
Terminal Series No.	Bend up	Twist Roll		Conductor		Insulation		
	Degree	e (Max)	Degre	e (Max)	mm In		mm	In
173041	3	3	5	10	1.90	.075	2.40	.095
173042	3	3	5	10	1.90	.075	2.40	.095
		Sean	1					
Seam shall	not be open	and no wire	allowed	l out of the	e crimp	ing are	a.	

After crimping, the conductor profile should measure the following.

	Wire Size			Cond	Pull Force Minimum				
Terminal Series No.	wire	Size	Crimp	Crimp Height		Crimp Width			
	AWG m		mm	ln.	mm	ln.	Ν	Lb.	
173041	16		1.15-1.25	.045049	1.90-2.00	.075079	133.5	30.0	
173041	18		1.00-1.10	.039043	1.90-2.00	.075079	89.0	20.0	
173042	16		1.15-1.25	.045049	1.90-2.00	.075079	133.5	30.0	
173042	18		1.00-1.10	.039043	1.90-2.00	.075079	89.0	20.0	

	Wire Size		Insulation				
Terminal Series No.	wire	Size	Crimp He	ight (Ref)	Crimp Width (Ref)		
	AWG	mm2	mm	In.	mm	In.	
173041	16		2.20	.087	2.50	.098	
	18		2.20	.087	2.50	.098	
173042	16		2.20	.087	2.50	.098	
173042	18		2.20	.087	2.50	.098	

Tool Qualification Notes:

- 1. Pull Force should be measured with no influence from the insulation crimp.
- 2. The above specifications are guidelines to an optimum crimp.
- 3. This terminal design will produce an insulation crimp shown in the Figure below:

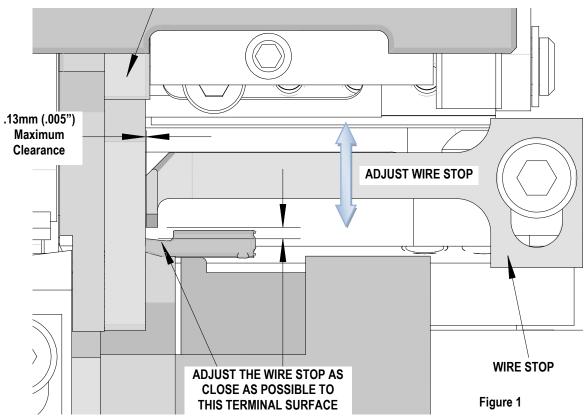


Release Date: 02-25-16 Revision Date: 02-25-16 **UNCONTROLLED COPY**

Wire Stop Set-Up Positioning Procedure

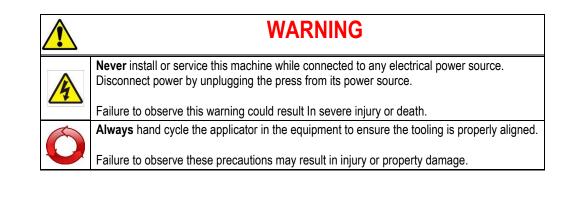
In order to maintain the conductor brush within the specifications the following set-up procedure needs to be followed.

- 1. Manually cycle the press until the press ram with the punches is in the full down position.
- 2. Adjust the wire stop blade down towards the terminal as close as possible to the terminal transitional surface. See Figure 1.
- 3. Adjust the clearance between the wire stop blade and the conductor punch to.13mm (.005") maximum.



CONDUCTOR PUNCH

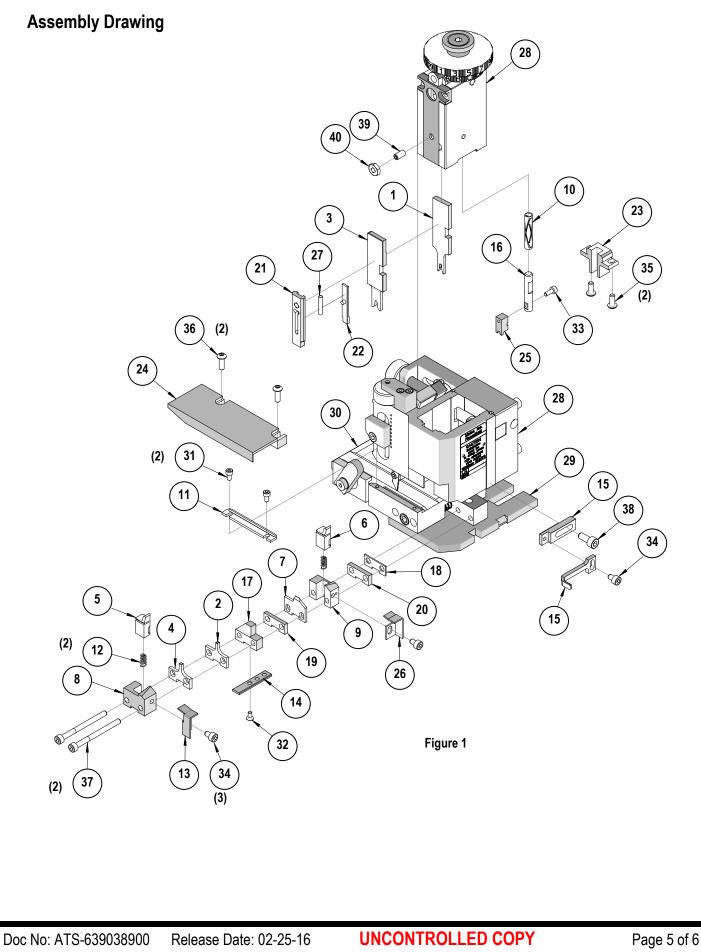
- 4. Manually cycle the press until the press ram is in the full up position.
- 5. Manually cycle the press again, to make sure the terminals are feeding properly.
- 6. Power up the press and crimp terminals without wire to make sure they are feeding properly
- 7. Crimp terminals with wire and check for proper feeding.



PARTS LIST

Item	Order No.	Engineering No.	oplicator 63903-8900 Description	Quantity
			able Tooling	
	63903-8970	63903-8970	Tool Kit (All "Y" Items)	REF
1	63457-0118	63457-0118	Conductor Punch	1 Y
2	63455-0136	63455-0136	Conductor Anvil	1 Y
3	63454-2405	63454-2405	Insulation Punch-Full R	1 Y
4	63456-2402	63456-2402	Insulation Anvil	1 Y
5	63443-0005	63443-0005	Cut-Off Plunger-Front	1 Y
6	63443-0003	63443-0003	Cut-Off Plunger-Rear	1 Y
7	63443-1402	63443-1402	Rear Cut-Off Die Blade	1 Y
8	63443-0012	63443-0012	Cut-off Plunger Retainer-Front	1 Y
9	63443-1004	63443-1004	Cut-off Plunger Retainer-Rear	1 Y
	•	Other	Components	•
10	11-17-0022	1739-21	Hold Down Spring	1
11	11-18-4083	60707-8	Feed Guide	1
12	11-24-1067	4996-4	Cut-Off Plunger Spring	2
13	63443-0009	63443-0009	Scrap Chute-Front	1
14	63443-0024	63443-0024	Кеу	1
15	63443-0090	63443-0090	Wire Stop	1
16	63443-0093	63443-0093	Shank	1
17	63443-1718	63443-1718	Height Spacer (18.80mm)	1
18	63443-2201	63443-2201	Spacer (1.0mm)	1
19	63443-2203	63443-2203	Spacer (3.0mm)	1
20	63443-2313	63443-2313	Spacer (3.65mm)	1
21	63443-2803	63443-2803	Front Plunger Striker	1
22	63443-2908	63443-2908	Striker Plunger	1
23	63443-3060	63443-3060	Rear Plunger Striker	1
24	63443-6111	63443-6111	Rear Cover	1
25	63903-8911	63903-8911	Terminal Hold Down	1
26	63466-0101	63466-0101	Scrap Chute-Rear	1
27	63600-1057	63600-1057	Striker Plunger Spring	1
			Frame	
28	63800-4901	63800-4901	Тор	1
29	63801-3281	63801-3281	Base	1
30	63801-4650	63801-4650	Track	1
			ardware	
31	N/A	N/A	M3 by 6 Long SHCS	2**
32	N/A	N/A	M3 by 6 Long FHCS	1**
33	N/A	N/A	M3 by 8 Long SHCS	1**
34	N/A	N/A	M4 by 6 Long SHCS	3**
35	N/A	N/A	M4 by 10 Long BHCS	2**
36	N/A	N/A	M4 by 12 Long BHCS	2**
37	N/A	N/A	M4 by 50 Long SHCS	2**
38	N/A	N/A	M5 by 12 Long SHCS	1**
39	N/A	N/A	#10-32 by 3/8"Long Flat Point SSS	1**
40	N/A	N/A	#10-32 Hex Jam Nut / company such as MSC (1-800-645-7	1**

Release Date: 02-25-16 Revision Date: 02-25-16 UNCONTROLLED COPY



Revision Date: 02-25-16

NOTES

- 1. Molex recommends an extra perishable tooling kit be maintained at your facility.
- 2. Verify tooling alignment by manually 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 work area.
- 4. Wear safety glasses at all times.
- 5. For recommended maintenance refer to the Fine Adjust Manual.

CAUTION: This applicator should only be used in a press with a shut height of 135.8mm (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 wireprocessing machine in place. Reference the press or wire processing manufacturer's instruction manual.

CAUTION: Molex crimp specifications are valid only when used with Molex terminals, applicators and tooling.

Visit our Web site at http://www.molex.com

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Hand Tools category:

Click to view products by Molex manufacturer:

Other Similar products are found below :

 568681-1
 576786-2
 58061-1
 58176-1
 58177-1
 58177-2
 58284-1
 59085
 0031
 59737-5
 015-0339-000
 015-8755-001
 600-146-06
 M15570

 25
 62200-5709
 6-304052-1
 63443-1002
 63443-3513
 63443-4025
 63443-7114
 6-354778-5
 6-354779-2
 63600-2995
 63810-0105

 M8196914-08
 M819698-07
 662508-1
 662908-1
 679994-1
 679994-2
 68764-0001
 69001-0105
 69002-5525
 690124-7
 690191-1
 690191-4

 690696-1
 691409-4
 691667-1
 692006-2
 692655-7
 692776-1
 6920776-4
 693077-3
 693077-4
 693597-1
 D20418-137
 D20419-189
 ESR

 17x17
 ET-LY10
 ET-LY10
 692006-2
 692655-7
 692776-1
 692077-3
 693077-4
 693597-1
 D20418-137
 D20419-189
 ESR