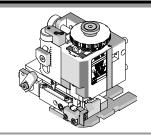




# **Application Tooling Specification Sheet**



Order No. 63901-4700

## **FEATURES**

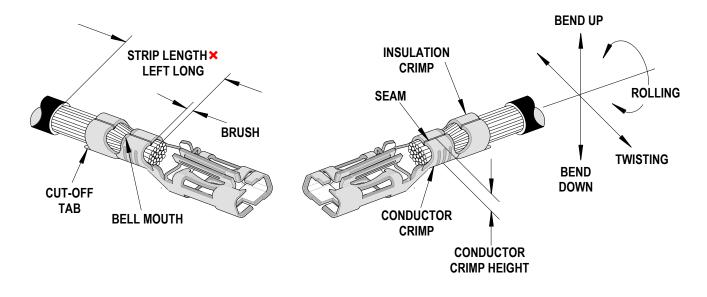
- Directly adapts to most automatic wire processing machines
- Quick punch removal with the push of a button for fast and easy tooling change
- Applicator designed to industry standard mounting and shut height 135.80mm (5.346")
- Quick set-up time; plus the crimp height, track and feed adjustments can 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: Solar Shingle Receptacle Crimp Terminal, 14 AWG.

Torminal	Terminal	Wire Size		Insu	Ilation Dia	ameter	Strip Length ×		
Terminal Series No.	Order No.			IPC/WHMA-A620		Terminal		Suip Lengui 🔨	
		AWG	mm²	mm	ln.	mm	ln.	mm	ln.
46942	46942-0001	14 (7/24)	2.27	N/A	N/A	N/A	N/A	8.50-10.50	0.334-0.413
171217	171217-0003	14 (7/24)	2.27	N/A	N/A	N/A	N/A	8.50-10.50	0.334-0.413

### **DEFINITION OF TERMS**



Doc No: ATS-639014700 Release Date: 06-25-09 Revision: E Revision Date: 02-20-15

### CRIMP SPECIFICATION

Terminal Series No.	Bell mouth	(Entry Side)	Cut-off Tab	Maximum	Conductor Brush		
Terminal Series No.	mm	ln.	mm	ln.	mm	ln.	
46942	0.30-0.45	.012018	0.35	.014	.76	020	
171217	0.30-0.43	.012010	0.33	.014	.70	.030	

	Bend up Bend down		Twist	Roll	Punch Width mm (Ref)				Seam	
Terminal Series No.			I WISC INOI		Conductor		Insulation			
	Degree		Degree		mm	ln	mm In		Seam shall not be open	
46942	3	3	4	8	2.30	.091	3.90	.154	and no wire allowed out of the crimping area	
171217	3	3	4	8	2.30	.091	3.90	.154	or the chimping area	

After crimping, the conductor profile should measure the following.

	Wire Size		Conductor				<b>×</b> Insulation					
Terminal Series No.			Crimp Height		Crimp Width (Ref)		Crimp Height Maximum		Crimp Width Maximum (Ref.)		Pull Force Minimum	
	AWG	mm <sup>2</sup>	mm	ln.	mm	ln.	mm	ln.	mm	ln.	N	Lb.
46942	14	2.27	1.75-1.86	.069073	2.30	.091	2.7	.100	3.90	.154	222.4	50.0
171217	14	2.27	1.75-1.86	.069073	2.30	.091	2.7	.100	3.90	.154	222.4	50.0

## **×**Insulation Crimp Special Notes:

- 1. The tooling for this applicator is intentionally designed to assist in reducing the insulation/conductor step that is on the bottom of the terminal.
- 2. The wire is intentionally stripped long, so that the copper stranding is completely exposed in the insulation grips.
- 3. After crimping, the insulation grips shall be formed so the sides of the insulation grips do not touch the wire. The insulation grips may gently rest on top of the wire strands. The insulation grips are to be formed to slip into the connector housing, but will provide no wire strain relief.

## **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.

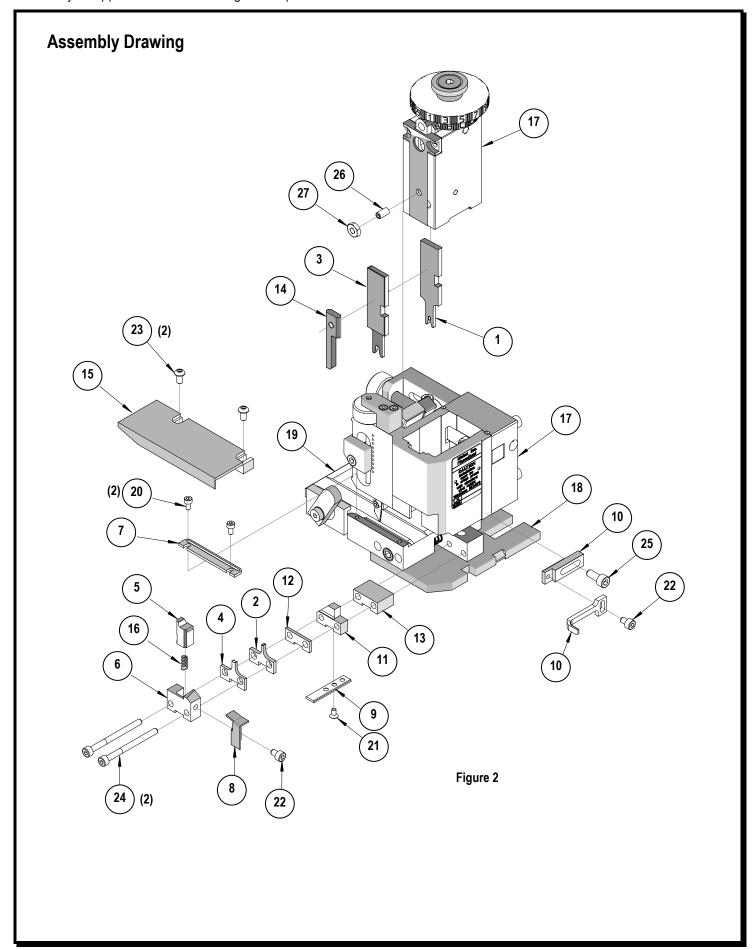
**UNCONTROLLED COPY** Doc No: ATS-639014700 Release Date: 06-25-09 Page 2 of 5

Revision: E Revision Date: 02-20-15

## **PARTS LIST**

	FineAdjust Applicator 63901-4700									
Item	Order No	Engineering No.	Description	Quantity						
		Perish	nable Tooling							
	63901-4770	63901-4770	Tool Kit (All "Y" Items)	REF						
1	63444-2313	63444-2313	Conductor Punch	1 Y						
2	63445-2336	63445-2336	Conductor Anvil	1 Y						
3	63446-3937	63446-3937	Insulation Punch	1 Y						
4	63445-3949	63445-3949	Insulation Anvil	1 Y						
5	63443-0035	63443-0035	Front Cut-Off Plunger	1 Y						
6	63443-0036	63443-0036	Front Plunger Retainer	1 Y						
			Components							
7	11-18-4083	60707-8	Feed Guide	1						
8	63443-0009	63443-0009	Front Scrap Chute	1						
9	63443-0024	63443-0024	Key	1						
10	63443-0090	63443-0090	Wire Stop	1						
11	63443-1717	63443-1717	Height Spacer (18.70mm)	1						
12	63443-2202	63443-2202	Coarse Spacer (2.00mm)	1						
13	63443-2216	63443-2216	Coarse Spacer (16.00mm)	1						
14	63443-3160	63443-3160	Front Plunger Striker	1						
15	63443-6121	63443-6121	Rear Cover	1						
16	63700-0539	63700-0539	Cut-Off Plunger Spring	1						
			Frame							
17	63800-4901	63800-4901	Тор	1						
18	63801-3281	63801-3281	Base	1						
19	63801-4650	63801-4650	Track	1						
		•	ardware							
20	N/A	N/A	M3 by 6 Long SHCS	2**						
21	N/A	N/A	M3 by 6 Long FHCS	1**						
22	N/A	N/A	M4 by 6 Long SHCS	2**						
23	N/A	N/A	M4 by 12 Long BHCS	2**						
24	N/A	N/A	M4 by 50 Long SHCS	2**						
25	N/A	N/A	M5 by 12 Lg SHCS	1**						
26	N/A	N/A	#10-32 by 3/8"Long Flat Point SSS	1**						
27	N/A	N/A	#10-32 Hex Jam Nut	1**						
*:	** Available from an industrial supply company such as MSC (1-800-645-7270).									

Doc No: ATS-639014700 Release Date: 06-25-09 **UNCONTROLLED COPY** Page 3 of 5 Revision: E Revision Date: 02-20-15



Doc No: ATS-639014700 Revision: E Release Date: 06-25-09 Revision Date: 02-20-15

## **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 FineAdjust 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 wire-processing 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

Doc No: ATS-639014700 Release Date: 06-25-09 **UNCONTROLLED COPY** Page 5 of 5 Revision: E Revision Date: 02-20-15

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