

AL-5 Capacitor Discharge Aluminum Dent Pulling System





Instruction Manual

Version 1.02





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Getting Familiar with your Welder AL-5





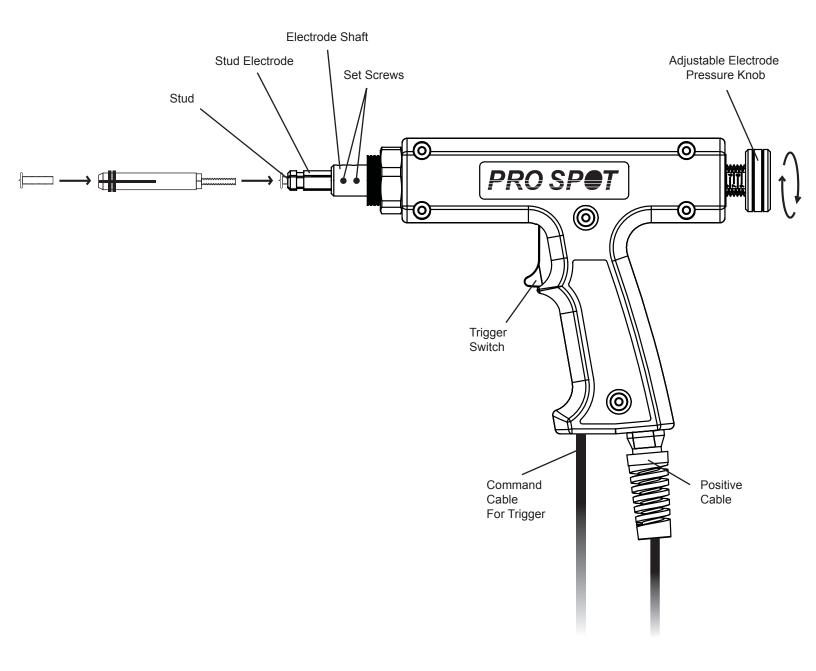




ON / OFF Switch







Creating A Proper Ground AL-5





Ground Plate

Clean surface, weld a stud using the AL-5. Place the ground plate on top of the stud, use a wing nut or similar to tighten the plate to the panel. The closer the ground to the weld location, the better.



Ground Clamp

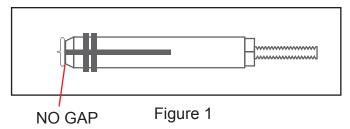
Alternative method to achieve ground. Clean surface on work piece and use ground clamp in this location. The closer the ground to the weld location, the better.

Getting Ready To Weld AL-5



To Weld:

Insert a threaded stud into the matching electrode holder. Place the gun in a perpendicular 90° position to the weld area.



In normal operation, the indicator light on the front panel should be as follows:

O GRD READY and ON
OV O READY lights are illuminated
OH O ON when the welder is on.

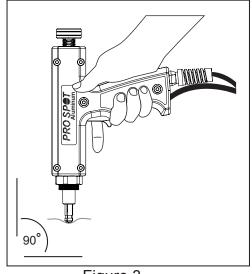
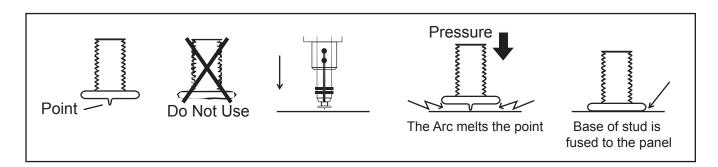


Figure 3

When the stud is placed on the panel, the GRD (ground) Light should turn on and indicate that the ground circuit is complete. If the voltage setting is changed, the ready light will go out until the correct capacitor voltage has been verified. Once the correct capacitor voltage has been verified, the light will turn on again.

The point on the stud creates an arc and the pressure on the stud collapses the point and melts the base of the stud to the panel. All of this occurs in milliseconds to create a proper weld, if the time were longer it could damage or blow a hole in the panel.

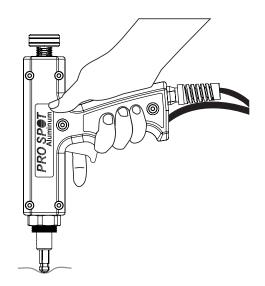


Setting the Weld Voltage:

Thickness:	Set weld knob to:
4mm	60-90
5mm	70-110
6mm	80-130

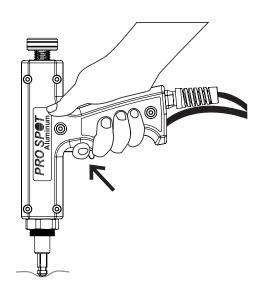


1.



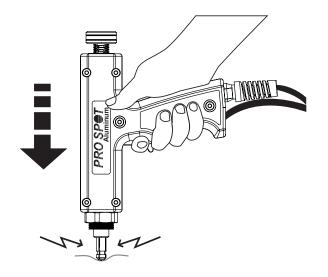
Place stud in desired location.
Do not apply pressure to gun yet.

2.



Squeeze and hold trigger. Again, do not apply pressure to gun yet.

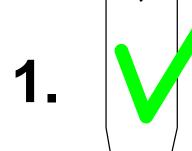
3.

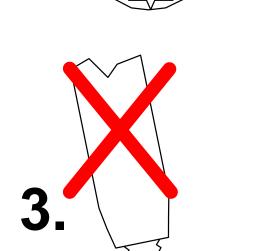


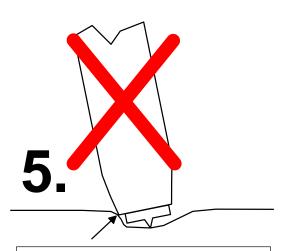
With trigger still squeezed, apply downward pressure until the gun fires and the weld has been made.

Identifying Common Issues AL-5

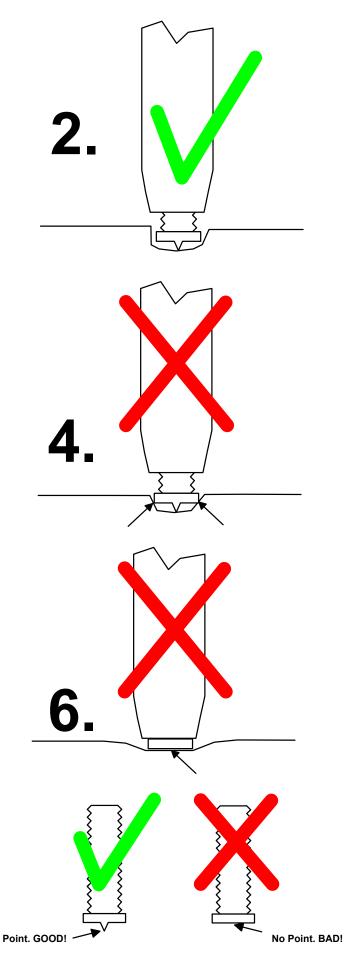


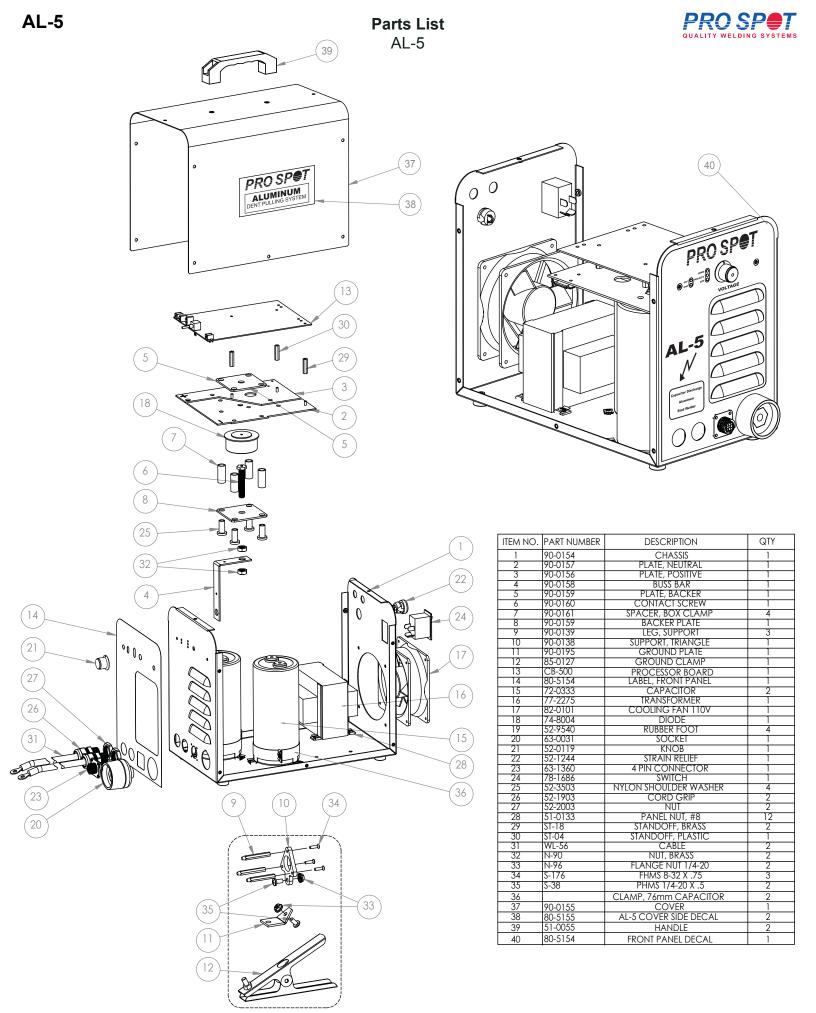






- 1. Make sure the point ONLY touches the surface. GOOD! Stud flush to electrode. GOOD.
- 2. Make sure the point ONLY touches the surface GOOD! Stud can extend 1/8"(2mm) from electrode. OK.
- 3. Point and head of stud touches the surface. BAD!
- 4. Head of stud touches the surface. BAD!
- 5. Electrode touches surface. BAD!
- 6. No point on stud. BAD! Will not work.





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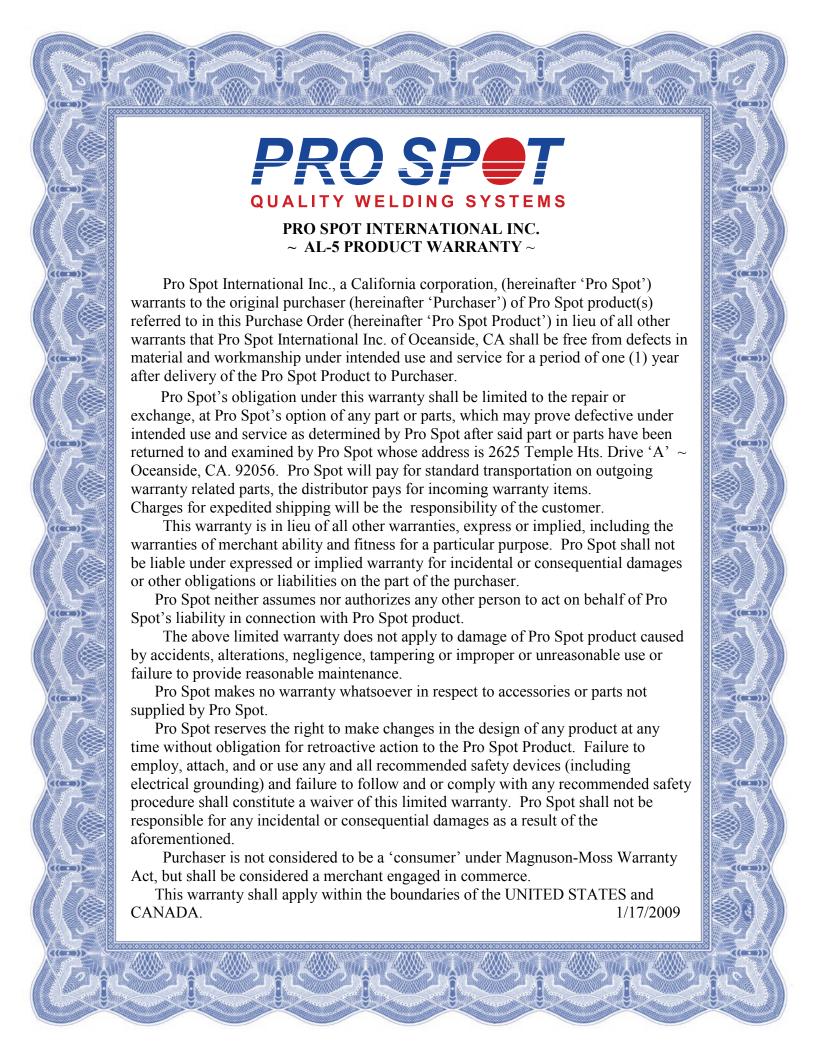
AL-5 WARRANTY CARD

PROSPET INTERNATIONAL, INC.

2625A Temple Heights Drive Oceanside CA 92056 USA FAX (760) 407-1421 PHONE (760) 407-1414 Register Online: www.prospot.com

FILL OUT AND MAIL OR FAX TO ENSURE WARRANTY REGISTRATION

Company Name:		Address:	Address:			
City:			State:	Zip:		
Owner/President:						
Phone:			Fax:	Fax:		
E-Mail:			Web Site:			
Date of Purchase:	Serial No:		Model purchas	Model purchased:		
Purchased from:		Add	Address:			
Comments:						



Notes

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