# USER MANUAL



**Multi Task Welding System** 

PR-2

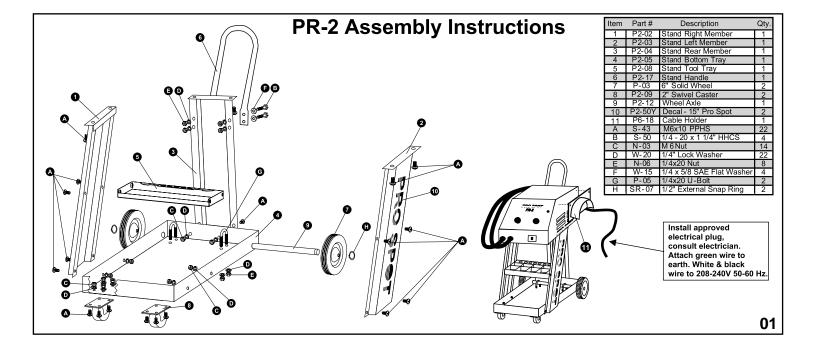


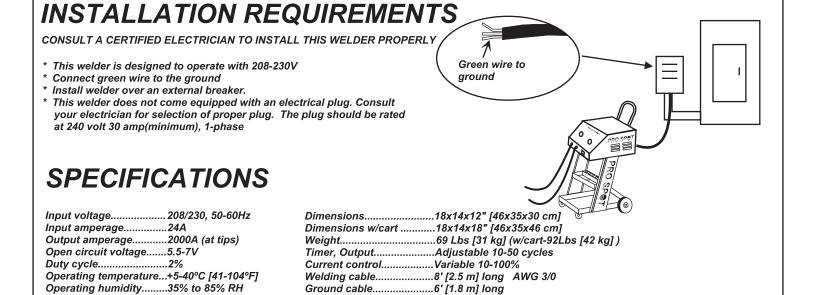
MADE IN U.S.A.

#### MAIL TO: PRO SPOT® **TEAR OUT AND MAIL TODAY WARRANTY CARD** or register online at 2625 Temple Heights Dr. Ste A. Oceanside, CA 92056 or FAX to: (760) 407-1421 e-mail: info@prospot.com www.prospot.com www.prospot.com FILL OUT AND MAIL TO ENSURE WARRANTY REGISTRATION Owner's name: Address: Company name: City: State: Phone: Zip: Fax: E-Mail: Web Site: Model Purchased: Date of purchase: Serial No: Purchased from: Buyer is: Body shop owner Body man Other How did you first get to know about our product: Please explain: Comments:

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Input cable......3 wire 10 gauge x 30' [9 m] long

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Maximum altitude......6562' [2000 m]



## **WARNING**



Only qualified personnel should install, use or service this equipment

ELECTRICITY CAN KILL! Confirm proper installation before operating the welder. <u>Do not use welder if your clothing, gloves or work area is damp.</u>

HIGH VOLTAGE CAN KILL. Do not operate welder with covers removed. Always disconnect input power before removing any panels for servicing.

CONSULT CERTIFIED ELECTRICIAN FOR INSTALLATION. Make sure ground cable is connected at all times.

WELDING SPARKS CAN CAUSE FIRE OR EXPLOSION. KEEP FLAMMABLE MATERIAL AWAY FROM THE WORK AREA. ALWAYS USE PROTECTIVE EYEWEAR AND GLOVES.

THE CABLES AND TOOLS USED WITH THIS WELDER CAN BE EXTREMELY HOT DURING OPERATION. Do not exceed welder's duty cycle.

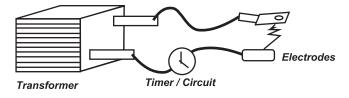
### PRODUCT INFORMATION AND FUNCTION

#### RESISTANCE WELDING

This resistance type welder performs a variety of functions. It was designed for the body shop industry to enhance performance, speed and flexibility for light welding and dent pulling applications. This welder performs shrinking, single sided spot welding, attachment of threaded studs and nuts, attachment of moulding clip rivets for windshields, and such welding for patch work. The biggest advantage is that very little heat is used compared

The biggest advantage is that very little heat is used compared to other welding methods, yet it is also clean and easy to use. There is very little clean up to do afterwards.

#### PRINCIPAL OF RESISTANCE WELDING

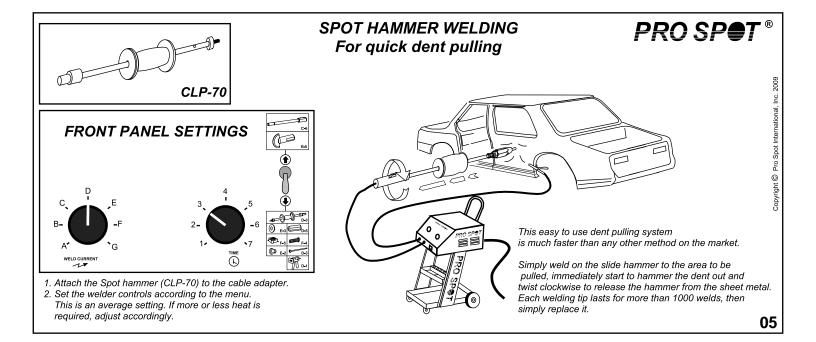


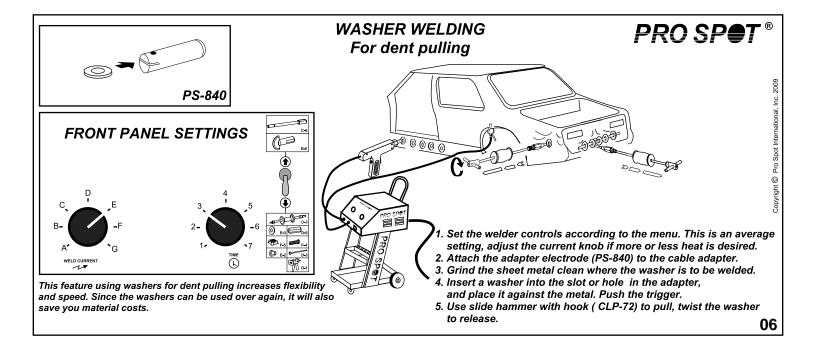
#### **ELECTRICITY ONLY**

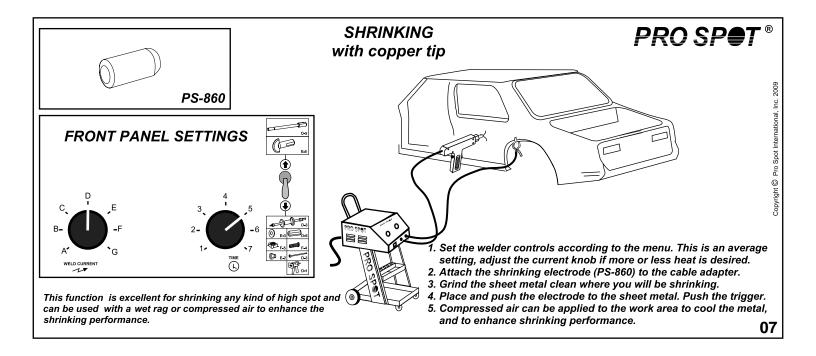
This resistance welder uses electricity only to create the welds. No gas or wire is used. A large current with low voltage rushes through the welding cable and the copper adapter. The high resistance in the sheet metal heats quickly to melt the work pieces together. The current is controlled by a timing device on the welder that shuts the current off automatically. Both time and current are adjustable by turning the control knobs on the welder.

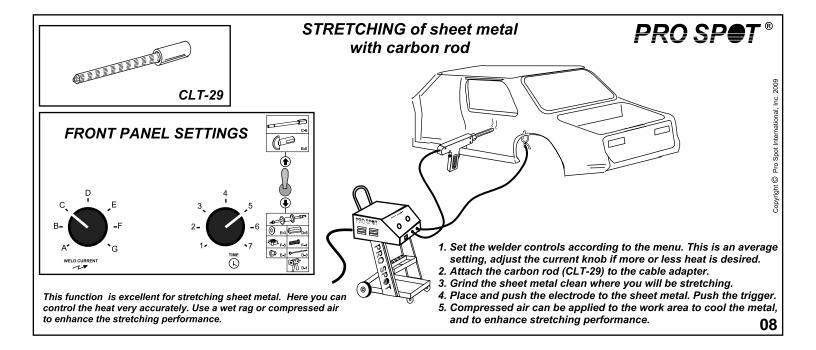
\*ALWAYS KEEP THE COPPER ELECTRODES CLEAN
\*ALWAYS GRIND THE CONTACT AREA FREE FROM PAINT

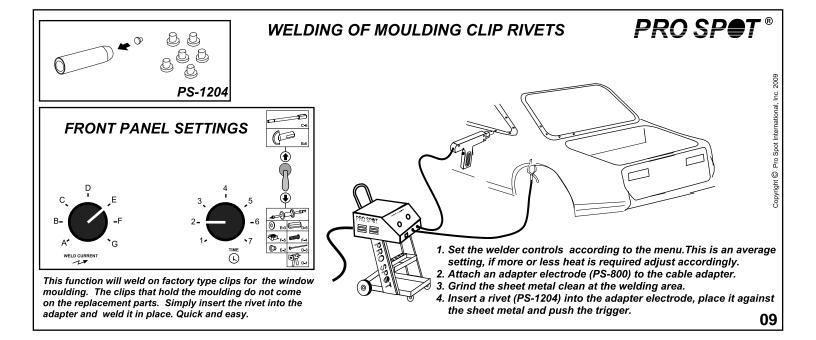
Welding results rely on a firm, solid connection. The ground attachment is very critical when using resistance welding. Always make sure the ground is attached firmly to a clean flat surface close to the work area. The closer the ground is attached to the work area, the better the results.

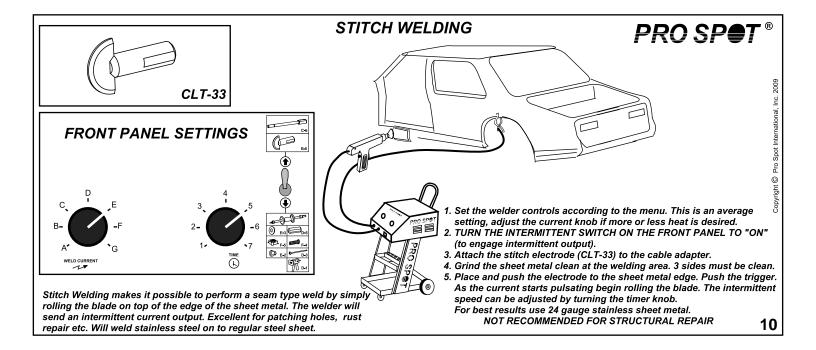






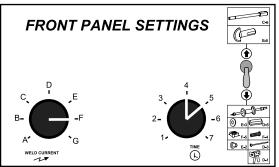




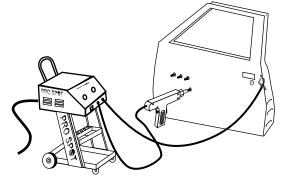


#### **WELDING OF THREADED STUDS AND NUTS**

PRO SP●T®



This function will weld threaded studs and nuts M6x20 and M5x12 on to sheet metal. Many of today's vehicles come with studs and nuts to hold interior panels, tail lights, door moulding, etc., although they are not attached to the replacement parts.



- 1. Set the welder controls according to the menu. This is an average setting, if more or less heat is required adjust accordingly.
- 2. Attach the stud adapter electrode (PS-830) to the cable adapter.
- 3. Grind the sheet metal clean at the welding area.
- 4. Insert a desired stud into the adapter electrode, place it against the sheet metal and push the trigger.

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## TROUBLE SHOOTING GUIDE

PROBLEM SOLUTION

Nothing happens while pushing the trigger

Check circuit breakers. Check voltage supply in the shop. Check switch cable for damage.

Welding a hole through the sheet metal Make sure there is contact between work pieces. when using single sided welding. Make sure sheet metal is ground on 3 sides.

Clear copper tip of metal residue. Adjust current and/or time down.

Weak welds. Make sure ground is connected firmly on cleaned

sheet metal close to work area.

Clean copper electrodes, tighten connectors.

Too thick sheet metal is being used.

Make sure spot hammer tip is ground ball shaped

