



# POWER PINNER CD HAND WELDER 7300 OPERATOR'S MANUAL



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## OPERATOR SAFETY

### ELECTRICAL AND PERSONAL SAFETY

Our first concern at Gripnail is the safety of the operators using our equipment. As with most types of welding equipment, there is always a potential for serious injury if the equipment is misused. Please familiarize yourself with the equipment before operating. Below is a list of a few safety precautions that should be observed.

1. Read this manual before you begin using the equipment.
2. Do not operate this welder in or near water or damp areas.
3. Do not look directly at the weld pin while welding. Arcing produced by the welding process could cause flash burns to your eyes and could cause blindness.
4. Wear protective clothing to prevent skin burns from weld slag.
5. Do not touch the weld pin or adjacent area after welding until sufficient time is allowed for cooling. Otherwise, serious burns may result.
6. Do not operate the welder unless all covers are in place.
7. Do not pull or move the welder by the attached cables or damage to the cables will result.
8. Contact the Gripnail Service Department for assistance with replacement parts, repairs, questions or diagnosing a problem with the welder.
9. This equipment contains a transformer power supply system, which energized by AC current and transforms the AC to DC current. Due to potential dangerous electrical input and output, the equipment must be disconnected from all incoming power when servicing.
10. Capacitors store electrical energy. Check for residual charge before performing any maintenance.
11. Do not use fluids to clean electrical components as these may penetrate the electrical system and cause shorts.
12. Loud noises from welding can damage hearing. Wear earplugs or other protective gear, if applicable.
13. Fumes and gases expelled during welding can be hazardous to your health. Make sure welding is done in a well-ventilated area.

Connection of the unit into service must be in accordance with the setup procedures as detailed in this manual. Operation of this equipment must be in accordance with all local, regional, and national safety codes.



## FIRE

During welding, small particles of hot metal can be expelled. Ensure that no combustible materials are near the welding area.



## MAINTENANCE

All cables must be inspected regularly to ensure that no danger exists from worn or damaged insulation or unsafe electrical connections. Take special note to the cables near the gun – this is where maximum wear occurs.

Worn cables not only produce inconsistent welds, but can overheat or spark.

## TRAINING

Use of this equipment must be limited to authorize personnel only. They must be adequately trained, and have read and understood everything in this manual. The manual must be available to operators at all times.



## INSTALLATION

Select a site for the equipment which is capable of supporting the weight of the equipment, which is clear from traffic routes where people may trip over cables, or they may be damaged by other equipment or vehicles.

Do not hang connecting cables over sharp edges or have near heat sources.



## DISPOSAL

The equipment, in its entirety or as components/parts may be disposed of as general industrial waste or scrap. None of the components used in the manufacturing of the CD Welder are toxic, carcinogenic, or otherwise harmful to your health.

## PRODUCT FEATURES

The 7300 incorporates the latest solid state technology into a compact and rugged, portable CD Pin Welder. This system has the capacity to weld pins (including cupped head pins) up to 10 gauge.

## FEATURES

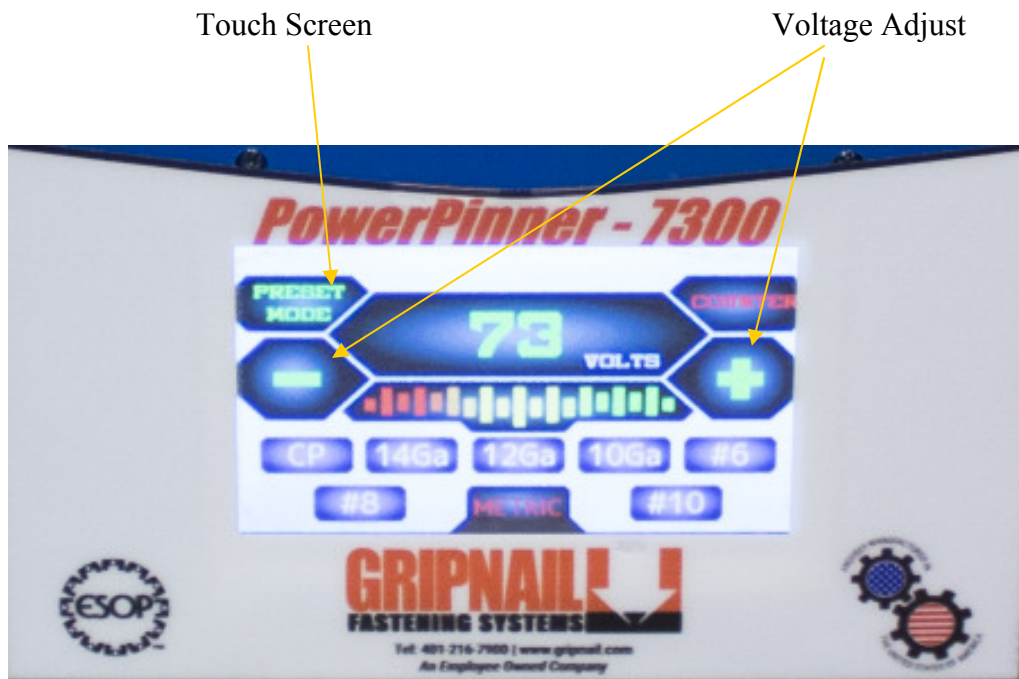
- Less than 1 second recharge time.
- Touch screen interface with preset values for fast, accurate and repeatable weld settings.
- Universal input voltage, No need to retap for 120V or 230V input voltage.
- Low input voltage capability enables operation with long extension cords
- Contact and Trigger indicators for fast troubleshooting of hand tool and weld cable maintenance issues
- Thermal and Voltage protection indicators to protect the unit from damage due to overheating or poor input power
- Increased airflow for improved efficiency and duty cycle
- Rigid internal construction minimizes the possibility of components coming loose during rough handling or operation
- Hand tool has been ergonomically designed to reduce operator fatigue for increased welding efficiency
- The 7300 Pin Welder weighs in at about 10.2 pounds for ease of carrying.
- Comfortable shoulder strap is optional with the unit.

## PRODUCT SPECIFICATIONS

SIZE	12.5"X10.1"X6.0"
WEIGHT	Approx. 10.2 lbs
WELD RANGE	Weld Pins—Up to 10 gauge
DUTY CYCLE	15-30 Pins Per Minute
POWER	120 VAC 50/60 HZ 15 Amps OR 230 VAC 50/60 HZ 7.5 Amps
CHARGE VOLTAGE	35-110 VDC

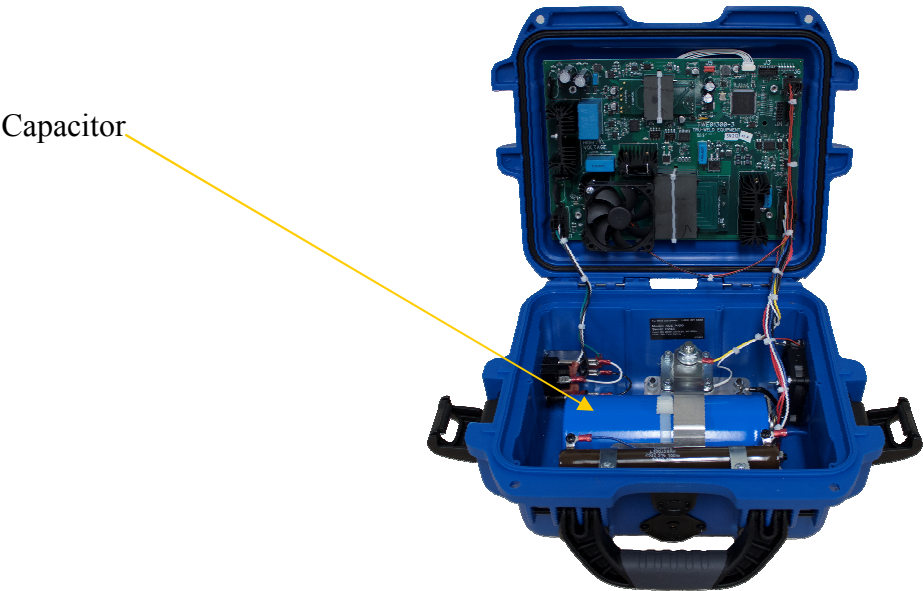
## EXTERNAL FEATURES

### FRONT PANEL

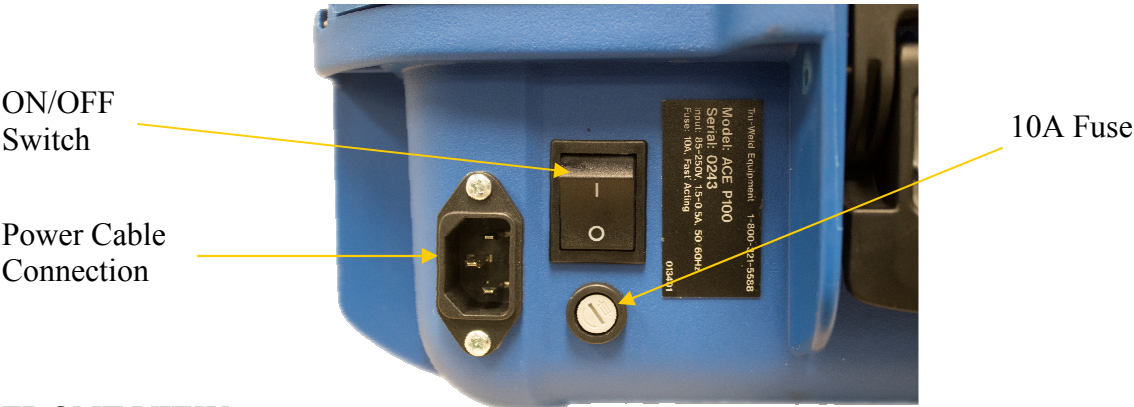


Model 7300 Power Pinner CD Hand Welder

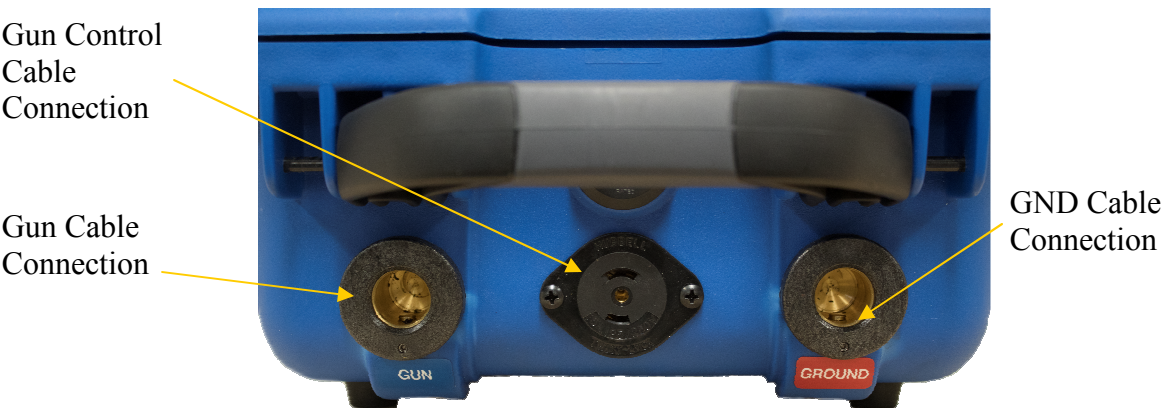
TOP OPEN VIEW



SIDE VIEW



FRONT VIEW



## SET-UP AND WELDING

### CONNECTING THE GROUND CLAMP

Attach the clamp of the welding ground lead to the work piece. Prior to securing the clamp, make certain that the contact area is free of rust, paint, grease, or any other impurities to ensure a good ground connection.



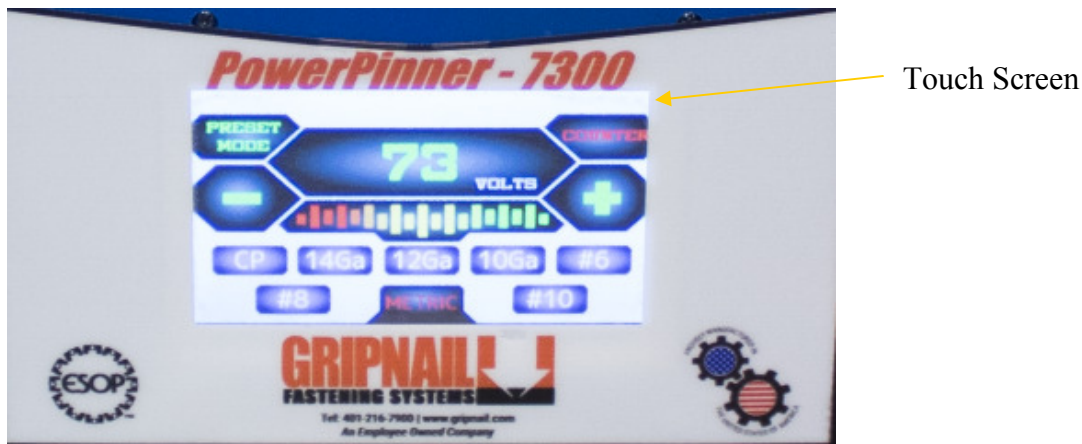
### READY FOR WELDING

When you have completed all of the previous steps to prepare for welding, attach the ground cable to the work area, setting up, you can now power on the welder. The controller ON/Off switch is located on the side of the unit in the upper right hand corner. Next to this switch is the 10 amp fuse for the system.



## VOLTAGE SELECTION

- Selecting the required weld voltage is achieved by pressing the “+” or “-” area on the touch screen. The voltage range is from 35VDC to 100VDC.
- The voltage is determined by the diameter of the stud and the base material. The unit is labeled with recommended voltage settings for various applications.
- Fine tuning the voltage to meet your requirement for the specific application is recommended.



## INSPECT THE WELD

Visually inspect the weld. A good weld will result in an all-around weld, with a small visible amount of weld surrounding base of the weld pin. Too much splatter and the weld is too hot, lower the voltage. No splatter and the weld is too cold, increase the voltage.

If you get weld flash to one side of the weld pin as opposed to an even amount around the base, this is called “arc blow”, and can be solved by repositioning the ground clamp or using a dual ground clamp.

Proper welding can be tested by either torquing or bending the weld pin. The welded pin should stay in place using either method. If the base material is very thin, the diameter of the weld pin will pull from the base metal for a properly welded pin.

## **TESTING WELD SETTINGS**

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When you have performed all of the presets as discussed in the manual, it is recommended that you perform several test welds with the same diameter weld pin and base material that you will be using. This will verify that all of the settings are correct to the results you desire. Welding is done by placing the weld pin on the magnetic tip, and pressing the gun to the work piece, compressing the spring

Holding the gun perpendicular to the work piece, and aligning the weld pin to the desired position on the work piece, press down (spring compressed), and depress the trigger



**GUN COMPONENTS**

42602 Gun RH

51308 Trigger Switch



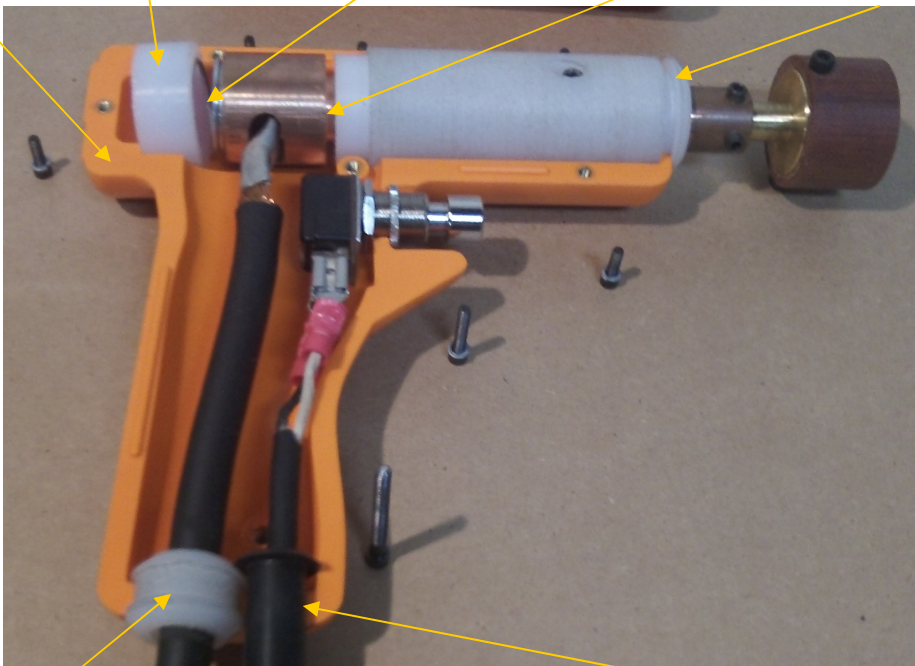
42603 Gun LH

31600 Spring Back

64105 Spring

31603 Electrode

31602 Slide

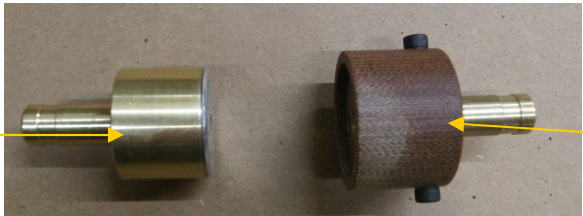


31601 Grommet

50033 Sleeve

20519 Tip  
Without  
Guide

20518 Tip  
With Guide



## **SERVICE POLICY**

Proper operation of your machine is a top priority with the Gripnail Corporation. We will assist you to the best of our abilities to see it is kept in peak operating condition.

In many cases, service needs can be made simply by calling Gripnail Customer Service Department. If it becomes necessary for a service technician to visit your plant, we can make the arrangements.

All Gripnail machines are covered under a one year New Machine Warranty (see Warranty next page). Replacement parts covered by the warranty are supplied free of charge, provided the original parts are returned to Gripnail and do not show signs of abuse.

All warranties on Gripnail machines are good only if Gripnail fasteners are used. If it is determined that fasteners other than those manufactured by Gripnail have been used, the warranty is voided. At Gripnail, we believe in servicing what we sell for the lifetime of the equipment. If you are having difficulty with your machine or if you have any questions regarding service and warranty policy, please call, fax, or write:

**Gripnail Customer Service Department**  
**Gripnail Corporation**  
97 Dexter Road  
East Providence, Rhode Island 02914  
Phone: (401) 216-7900  
Fax (401) 438-8520  
Email: [gripnail@gripnail.com](mailto:gripnail@gripnail.com)  
Website: [www.gripnail.com](http://www.gripnail.com)



## **WARRANTY**

All Gripnail Fastening Equipment is thoroughly inspected and tested before leaving the factory. Gripnail Corporation warrants its equipment to be free from defects in workmanship and materials under normal and proper use for a period of one (1) year from date of sale to original end purchaser.

The warranty does not apply when repairs or attempted repairs have been made by persons other than Gripnail Corporation's authorized service personnel, or where it is determined by our service personnel that the equipment has been subjected to misuse, negligence or accident. If it is determined that any fasteners other than those manufactured by Gripnail have been used in this machine or tool, the warranty is terminated.

This warranty is not effective unless equipment is properly registered with the factory through the use of warranty information card prior to use. Gripnail Corporation shall not be liable for contingent damages or delays caused by defective materials or any other means beyond our control.

### **Gripnail Customer Service Department**

#### **Gripnail Corporation**

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