

# PRO SERIES™

## INSTRUCTION MANUAL

### Jump Starter & DC Power Source

Models: PSJ-2212 One 22-Ah Battery 12V

PSJ-3612 Two 18-Ah Batteries 12V

PSJ-4424 Two 22-Ah Batteries 12/24V

THIS PRODUCT HAS A SEALED LEAD-ACID BATTERY INSIDE THAT SHOULD BE KEPT AT FULL CHARGE FOR LONGER LIFE.  
RECHARGE WHEN FIRST RECEIVED, AFTER EACH USE AND EVERY 3 MONTHS.

## IMPORTANT SAFETY INSTRUCTIONS

Save These Instructions

### IMPORTANT SAFETY INSTRUCTIONS

Someone should be within range of your voice or close enough to come to your aid when you are working near a lead-acid battery.

Have plenty of fresh water and soap nearby in case battery acid contacts skin, clothing, or eyes. If acid enters the eye area, rinse with cold water for at least 10 minutes and get medical help immediately.

Do not smoke, or use matches or cigarette lighters, or allow any spark or flame near the battery or engine.

Never operate the power source unit if it has damaged lead wire or clamps. Have the lead wire replaced by a qualified technician.

Wear complete eye and clothing protection when working with lead-acid batteries.

Do not permit internal battery in the jump starter to freeze. Never charge a frozen battery.

### HANDLING WARNING

**WARNING:** Handling the cord on this product or cords associated with this product, may expose you to lead, a chemical known to the State of California to cause cancer and birth defects or other reproductive harm. *Wash hands after handling.*

### OPERATING INSTRUCTIONS

**Warning: Failure to follow instructions may cause damage or an explosion. Read entire instruction manual before use.**

1. Turn ignition OFF before making cable connections.
2. Use in a well-ventilated area.
3. Keep clear of fan blades, belts, pulleys and other parts that may cause injury.
4. Make sure the rotary power switch on the front panel is in the O (OFF) position until clamps are connected to the vehicle battery. If plugged into an 110V AC wall outlet, disconnect.
5. To prevent sparking, NEVER allow clamps to touch together or to contact the same piece of metal.
6. Clamp the red clamp (+) to the positive terminal of the battery. (For a negative grounded system.)\*
7. Clamp the black clamp (-) to an unpainted and unmoving part of the chassis or engine block. The 3-digit display will show the voltage of the battery.
8. If you have connected the clamps backwards, an audio alarm will sound. DO NOT turn your jump starter on. This could cause serious damage. Reverse the connections, and the audio alarm will stop.
9. If no audio alarm sounds, turn the rotary switch to the 12V position. (Or, for Model PSJ-4424, switch to 12V or 24V.) The clamps are now powered. Crank the engine. If the engine does not start within 5 – 8 seconds, stop cranking and wait at least 1 minute before attempting to start vehicle again. (This permits the battery to cool down.)

**NOTE:** When the voltage on the clips exceeds 15 volts, the audio alarm will beep four times. If the cables are connected to a 24-volt system when the switch is in the 12V position, the audio alarm will sound continuously. TURN OFF the jump starter immediately or internal battery damage will occur.

**NOTE:** If the switch is in the 12V or 24V position or the jump starter is connected to a battery for more than 5 minutes, four beeps will sound. This is a reminder to turn the jump starter off and/or disconnect from battery when it is not in use.

10. After the engine starts, turn the rotary switch to the O (OFF) position. Then disconnect the black clamp (-) and then the red clamp (+) in that order. Store the clamps in the compartments located on the sides of the case.
11. Recharge the jump starter as soon as possible after use.

**\*NOTE:** In the rare case of jump-starting a vehicle that has a positive-grounded vehicle electrical system, connect the NEGATIVE black clamp (-) to the negative terminal (-) of the vehicle battery. Then connect the POSITIVE red clamp (+) to an unpainted and unmoving part of the vehicle chassis or engine block. If you are unsure of the nature of the vehicle's electrical grounding system, check the owner's manual of the vehicle. To disconnect clamps, reverse order.

### DIGITAL DISPLAY

The display can be used to indicate a battery's voltage when connected to a battery or the percentage of charge in the jump starter's internal battery.

With the switch in the OFF position, connect the clamps to the vehicle's battery and its voltage is displayed. Turn the jump starter's rotary switch to 12V, (or, for Model PSJ-4424, 12V or 24V) and the combination of both internal and external batteries are shown.

To read the internal battery's charge status: Press the display button to read the percentage of charge left in the internal battery. A fully charged battery will read 100%.

**CHARGING** of internal battery with built-in 3-amp, automatic charger.

After removing the jump starter from the carton, charge it for a minimum of 8 hours before using.

1. Make sure the rotary power switch on the front panel is in the O (OFF) position.
2. Plug extension cord into charger plug on the left side of the jump starter. (Extension cord not included; must be purchased separately.)
3. Plug the extension cord into 110V AC electrical wall outlet.
4. Charging of the internal battery could take up to 48 hours due to age and condition of the battery. At full charge, the charger will automatically drop into a float mode and maintain the battery at full charge without damaging the battery. The jump starter can be left plugged into the 110V wall outlet indefinitely to maintain full power.

**NOTE:** A fully charged battery will read 100%

5. Recharge the jump starter after use and every 3 months to full charge status to extend the battery's life.

If the charger is plugged in for over 48 hours and the battery(s) do not fully charge in this time, CHG ERR is shown on the Display. The batteries may be getting old and will no longer accept a charge.

#### TO ORDER AND REPLACE JAWS

| Part Number | Description              | QTY Per Clamp |
|-------------|--------------------------|---------------|
| 0099000680  | TOP BATTERY CLAMP JAW    | 1             |
| 0099000705  | BOTTOM BATTERY CLAMP JAW | 1             |
| 3899001640  | BRAIDED CABLE            | 1             |
| 5199000636  | SCREW, JAW TO CLAMP      | 2             |
| 5199001010  | SCREW, JAW TO CABLE      | 1             |

#### Battery Clamp Jaw Replacement

1. Secure clamp in open position using a vise or equivalent clamping device. **IMPORTANT:** Make sure the rotary switch on the front panel is in the O (OFF) position and the jump starter is not plugged into a 110V AC electrical wall outlet.
2. Unscrew fastener securing the cables to the rear of the top jaw.
3. Unscrew fasteners (2) securing the Copper Jaws to the plastic clamp. Remove the jaws and braided cable.
4. Reverse for assembly.

#### STORAGE

The jump starter can be stored in any position. When the rotary switch is in the 12V position, (or, for Model PSJ-4424, 12V or 24V) the clamps are live and will produce arcing or sparking if they come in contact with each other. To prevent accidental arcing, always keep the clamps in the compartments and the switch in the OFF position when not using it to jump start a vehicle.

All batteries are affected by temperature. The ideal storage temperature is at 70 degrees Fahrenheit. Performance varies based on battery temperature conditions.

#### LIMITED WARRANTY

Schumacher Electric Corporation warrants your unit to be free from defects in material and workmanship, excepting abuse or misuse, for a period of one year from the date of sale to the original user or consumer purchaser. If your unit fails or malfunctions within the first 30 days of the warranty, we will replace it with a new unit. If your unit malfunctions or fails within the 12 month warranty period because of a defect in material or workmanship, we will repair without charge.

The internal battery, excluding units with swollen batteries or melted battery terminals, carries a 90-day warranty from the date of purchase. Proof of purchase required. All battery replacements will be at the sole discretion of the manufacturer or his designated agents.

This warranty is in lieu of all other express warranties. The duration of any implied warranty, including but not limited to any implied warranty of merchantability or fitness for a particular purpose, made in respect to your unit is limited to the period of the express warranty set forth above.

For warranty service, return your product, with proof of purchase, to the factory or a designated agent: Schumacher Electric Corporation Warranty Service Department, 1025 E. Thompson Street, PO Box 280, Hoopeston, IL 60942. Phone 1-800-621-5485, Customer Service hours: 7 AM to 4 PM CST.

You will be responsible for all insurance and freight or other transportation charges to the factory or point of repair. We will return your unit freight prepaid if repair is covered under warranty. Your unit should be properly packed to avoid damage in transit, since we will not be responsible for any such damage.

In no event shall Schumacher Electric Corporation be liable for consequential or incidental damages. Some states do not allow limitations on the length of the implied warranty or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.



CONTAINS SEALED NON-SPILLABLE LEAD-ACID BATTERY. MUST BE DISPOSED OF PROPERLY.

WARNING: Possible explosion hazard. Contact with battery acid may cause severe burns and blindness. Keep out of reach of children.



**DSR Professional Products**

Schumacher Electric Corporation

801 Business Center Drive, Mount Prospect, IL 60056-2179

Send Warranty Product Repairs to: Schumacher Electric Corporation

1025 East Thompson, Hoopeston, IL 60942-0280

Call Customer Service if you have questions: 1-800-621-5485