

1. IMPORTANT SAFETY INSTRUCTIONS

To reduce the risk of battery explosion, follow these instructions and those published by the battery manufacturer and the manufacturer of any equipment you intend to use in the vicinity of a battery. Review cautionary marking on these products and on the engine.

California Proposition 65 Warning:

WARNING: This Product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm (California law requires this warning to be given to customers in the State of California). Wash hands after handling.

- Keep out of reach of children.
- Do not disassemble the jump starter. Take it to a qualified service professional if service or repair is required. Incorrect assembly may result in fire or electrical shock.
- Do not use the jump starter to jump a vehicle while charging the internal battery.
- Do not recharge the jump starter with a damaged extension cord.
- The jump starter gets hot during charging and must have proper ventilation.
- Do not set the jump starter on flammable materials, such as carpeting, upholstery, paper, cardboard, etc.
- Place the jump starter as far away from the battery being jumped as the cables will permit.
- Do not expose the jump starter to rain or snow.
- Never place the jump starter directly above battery being jumped.
- To prevent arcing, never allow the clamps to touch together or to contact the same piece of metal.
- Use of an attachment not recommended or sold by Schumacher® Electric Corporation may result in damage to the unit or personal injury.
- Never operate the jump starter if it is damaged.
- If someone else uses the jump starter, ensure they are well informed on how to use it safely, and have read and understood the operating instructions.
- The jump starter is NOT designed to be installed as a replacement for a vehicle battery.
- Use ONLY on vehicles, boats and garden tractors powered with a 12V DC battery system.
- If the engine fails to start after the recommended number of attempts, disconnect the unit and look for other problems that may need to be corrected.

- Use the jump starter for jump starting lead-acid batteries only. Do not use for dry cell batteries that are commonly used with home appliances.

2. PERSONAL SAFETY PRECAUTIONS

- Wear complete eye protection and protective clothing when working near lead-acid batteries. Always have someone nearby for help.
- Have plenty of fresh water, soap and baking soda nearby for use, in case battery acid contacts your eyes, skin, or clothing. Wash immediately with soap and water and seek medical attention.
- If battery acid comes in contact with eyes, flush eyes immediately for a minimum 10 minutes and get medical attention.
- Neutralize any acid spills thoroughly with baking soda before attempting to clean up.
- Remove all personal metal items from your body, such as rings, bracelets, necklaces and watches. A battery can produce a short circuit current high enough to weld a ring to metal, causing a severe burn.
- Never smoke or allow a spark or flame in the vicinity of the battery or engine.

3. FEATURES



1. USB port
2. Rotary switch for USB and jump starter
3. Built-in work light
4. Battery status indicators
5. Battery status button
6. V DC power outlet
7. Worklight ON/OFF switch
8. Battery clamps

4. CHARGING THE INTERNAL BATTERY

IMPORTANT!

CHARGE IMMEDIATELY AFTER PURCHASE, AFTER EACH USE AND EVERY 30 DAYS, TO KEEP THE INTERNAL BATTERY FULLY CHARGED AND PROLONG BATTERY LIFE.

CHECKING THE LEVEL OF THE INTERNAL BATTERY

Press the **Battery Status** button on the front of the unit. The LED lights will indicate the current charge level as follows:

RED – less than 20% of full charge; immediately charge the unit.

YELLOW/ORANGE – 20-80% of full charge.

GREEN – more than 80% of full charge.

CHARGING THE INTERNAL BATTERY

Charge the internal battery for the jump starter using an extension cord (not included).

NOTE: Use of an improper extension cord could result in a risk of fire and electric shock.

1. To charge, flip the AC connector on the back of the unit **DOWN** and plug in an 18 AWG or larger extension cord.
2. Plug the extension cord into a 120VAC electrical wall outlet.
3. While the jump starter is charging, the **RED LED** will be on. Complete charging may take up to 72 hours. When the **RED LED** turns off, the jump starter is ready to use.
4. When the internal battery is fully charged, the charger will automatically go into maintain mode and maintain the battery at full charge without damaging it. When in maintain mode, the **GREEN LED** will pulse, as long as there is an AC cord connected to the charging port.
5. Charge the jump starter as soon as possible after use.

CHARGING THE INTERNAL BATTERY WHILE DRIVING

You may also charge the internal battery while driving, using a male-to-male charger cable (part number 94500109 – not included).

IMPORTANT: DO NOT CHARGE INTERNAL BATTERY FOR MORE THAN MINUTES OR LEAVE THE BATTERY UNATTENDED. IT COULD EXPLODE, CAUSING PROPERTY DAMAGE OR PERSONAL INJURY.

1. Make sure the car is running.
2. Insert one end of the accessory cable into the 12V DC power outlet.
3. Insert the other end of the accessory cable into the vehicle's accessory outlet (lighter socket).

NOTE: The RED LED does not operate during this method of charging. Using this method to charge the battery overrides the maintain mode and the battery can be overcharged.

4. Monitor the progress of the charge by pressing the Battery Status button on the front of the unit. When the battery is fully charged, disconnect the accessory cable from the jump starter, then from the lighter socket of the vehicle.

NOTE: Completely disconnect the charger cable when the engine is not running.

5. USING THE JUMP STARTER

IMPORTANT: Using the Engine Start feature without a battery installed in the vehicle will damage the vehicle's electrical system.

1. Turn the ignition OFF.
2. Lay the DC cables away from any fan blades, belts, pulleys and other moving parts.
3. For a negative-ground vehicle (as in most vehicles), connect the jump starter's POSITIVE (RED) clamp to the POSITIVE (POS, P, +) battery post. Next, connect the NEGATIVE BLACK) clamp to the vehicle chassis or engine block, away from the battery.
4. For a positive-ground vehicle, connect the jump starter's NEGATIVE BLACK) clamp to the NEGATIVE (NEG, N, -) battery post. Next, connect the POSITIVE (RED) clamp to the vehicle chassis or engine block away from the battery.
5. Turn the switch to the ON position.
6. Crank the engine for no more than seconds. If the engine does not start, wait 2 minutes before cranking again.
7. After the engine starts, turn the switch to the OFF position and remove the jump starter from the battery.
8. Charge the jump starter.

USING THE USB PORT

The USB port provides up to 2A at 5V DC.

1. Ensure the battery clamps are securely clipped on the storage holders.
2. Turn the jump starter ON.
3. Plug your device into the USB port.
4. When finished using the USB port, turn the switch to the OFF position.
5. Charge the jump starter.

USING THE WORK LIGHT

The work light is controlled by a sliding ON/OFF switch located on the front of the jump starter. Make sure the lamp is turned OFF when the unit is being recharged or stored.

Position the jump starter on a flat, stable surface near the intended work area. Ensure the battery clamps are securely clipped on the storage holders.

POWERING A 12V DC DEVICE

The jump starter is a power source for all 12V DC accessories that are equipped with a 12V accessory plug. Use it for power outages and on fishing or camping trips.

NOTE: Do not power a 12V device with the jump starter while charging the internal battery.

1. Make sure the device to be powered is OFF before inserting the 12V DC accessory plug into the 12V DC accessory outlet.
2. Open the protective cover of the DC power outlet on the jump starter.
3. Plug the 12V DC device into the DC power outlet and turn on the 12V DC device (if required).
4. When finished, turn off the DC device (if required) and unplug from the DC power outlet.

CAUTION: Do not use the jump starter to run appliances that draw more than 15A DC. **NOTE:** Extended operation of a 12V DC device may result in excessive battery drain. Recharge the jump starter immediately after unplugging the 12V DC device.

Estimated run-times

APPLIANCE TYPE	EST WATTAGE	FRO1241
Cell phone	4 watts	54 hrs
Fluorescent light	4 watts	54 hrs
Radios, fans	9 watts	24 hrs
Depth finder	9 watts	24 hrs
Camcorder	15 watts	14.4 hrs
Electrical tool	24 watts	9 hrs
Electric cooler	48 watts	4.5 hours
Car vacuum, air compressor	80 watts	2.7 hrs

6. MAINTENANCE AND CARE

- Clean the clamps and the case each time you are finished using it.
- Recharge the unit once a month when not in use.
- Store clamps on their support posts, to ensure they do not come into contact with any metallic surface.
- Never completely discharge the internal battery.

7. TROUBLESHOOTING

The jump starter won't jump start my car.

- Clamps are not making a good connection to the battery. - Check for poor connection to battery and frame. Make sure connection points are clean.
- Connections are reversed. - Disconnect the jump starter and reverse the clamps.
- The jump starter's battery is not charged. - Press the Battery Status button on the front of the unit. The LEDs will indicate the status of charge.
- The vehicle's battery is defective. - Have the battery checked.
- The jump starter is not turned on. - Turn the jump starter ON/OFF switch to the ON position.

The jump starter won't power my 12V device.

- The 12V device is not turned on. - Turn on the 12V device.
- The jump starter's battery is not charged. - Check the battery charge status by pressing the Battery Status button.
- The 12V device draws more than 15A or has a short circuit. - Disconnect the 12V device. The internal breaker will automatically reset after a minute or two. Try the 12V device again.

The battery in the jump starter won't hold a charge.

- The battery is bad (will not accept a charge). - Have the battery checked.

8. LIMITED WARRANTY

SCHUMACHER ELECTRIC CORPORATION, 801 BUSINESS CENTER DRIVE, MOUNT PROSPECT, IL 60056-2179, MAKES THIS LIMITED WARRANTY TO THE ORIGINAL RETAIL PURCHASER OF THIS PRODUCT. THIS LIMITED WARRANTY IS NOT TRANSFERABLE OR ASSIGNABLE.

Schumacher Electric Corporation (the "Manufacturer") warrants this jump starter for one year and the internal battery for ninety (90) days from the date of purchase at retail against defective material or workmanship that may occur under normal use and care.

If your unit is not free from defective material or workmanship, Manufacturer's obligation under this warranty is solely to repair or replace your product, with a new or reconditioned unit, at the option of the Manufacturer. It is the obligation of the purchaser to forward the unit, along with proof of purchase and mailing charges prepaid to the Manufacturer or its authorized representatives in order for repair or replacement to occur.

Manufacturer does not provide any warranty for any accessories used with this product that are not manufactured by Schumacher Electric Corporation and approved for use with this product. This

Limited Warranty is void if the product is misused, subjected to careless handling, repaired, or modified by anyone other than Manufacturer or if this unit is resold through an unauthorized retailer.

Manufacturer makes no other warranties, including, but not limited to, express, implied or statutory warranties, including without limitation, any implied warranty of merchantability or implied warranty of fitness for a particular purpose. Further, Manufacturer shall not be liable for any incidental, special or consequential damage claims incurred by purchasers, users or others associated with this product, including, but not limited to, lost profits, revenues, anticipated sales, business opportunities, goodwill, business interruption and any other injury or damage. Any and all such warranties, other than the limited warranty included herein, are hereby expressly disclaimed and excluded. Some states do not allow the exclusion or limitation of incidental or consequential damages or length of implied warranty, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights and it is possible you may have other rights which vary from this warranty.

THIS LIMITED WARRANTY IS THE ONLY EXPRESS LIMITED WARRANTY AND THE ANUFACTURER NEITHER ASSUMES OR AUTHORIZES ANYONE TO ASSUME OR MAKE ANY OTHER OBLIGATION TOWARDS THE PRODUCT OTHER THAN THIS WARRANTY.

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