

# Jump Starter and DC Power Source

## OWNERS MANUAL

FOR MODELS  
FR01549  
FR01241  
SJ1329  
SJ1342

**PLEASE SAVE THIS OWNERS MANUAL AND READ BEFORE EACH USE.**

This manual will explain how to use the jump starter safely and effectively. Please read and follow these instructions and precautions carefully.



**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.

## 1. IMPORTANT SAFETY INSTRUCTIONS

**WARNING** – When using this product, basic precautions should always be followed, including the following:

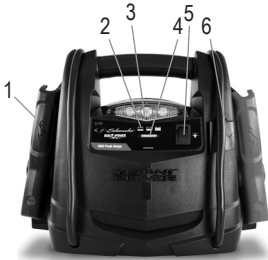
- 1.1 Read all the instructions before using the product. Failure to do so could result in serious injury or death.
- 1.2 To reduce the risk of injury, close supervision is necessary when the product is used near children.
- 1.3 Do not put fingers or hands into the product.
- 1.4 Do not expose the power pack to rain or snow.
- 1.5 Use of an attachment not recommended or sold by the power pack manufacturer may result in a risk of fire, electric shock, or injury to persons.
- 1.6 To reduce risk of damage to the electric plug and cord, pull the plug rather than the cord when disconnecting the power pack.
- 1.7 Do not use a battery pack or appliance that is damaged or modified. Damaged or modified batteries may exhibit unpredictable behavior resulting in fire, explosion or risk of injury.
- 1.8 Do not operate the power pack with a damaged cord or plug, or a damaged output cable.
- 1.9 Do not disassemble the power pack, take it to a qualified service person when service or repair is required. Incorrect reassembly may result in a risk of fire or electric shock.
- 1.10 To reduce the risk of electric shock, unplug the power pack from the outlet before attempting any instructed servicing.
- 1.11 **WARNING – RISK OF EXPLOSIVE GASES.**
  - a. **WORKING IN VICINITY OF A LEAD ACID BATTERY IS DANGEROUS. BATTERIES GENERATE EXPLOSIVE GASES DURING NORMAL BATTERY OPERATION. FOR THIS REASON, IT IS OF THE UTMOST IMPORTANCE THAT YOU FOLLOW THE INSTRUCTIONS EACH TIME YOU USE THE POWER PACK.**
  - b. To reduce risk of battery explosion, follow these instructions and those published by battery manufacturer and manufacturer of any equipment you intend to use in vicinity of the battery. Review cautionary markings on these products and on engine.
- 1.12 **WARNING** – For models without a rotary switch: The clamps on the jump starter are live and will produce arcing or sparking if they come in contact with each other or the same piece of metal.

## 2. PERSONAL PRECAUTIONS

- 2.1 Consider having someone close enough by to come to your aid when you work near a lead-acid battery.
- 2.2 Have plenty of fresh water and soap nearby in case battery acid contacts skin, clothing, or eyes.
- 2.3 Wear complete eye protection and clothing protection. Avoid touching eyes while working near battery.
- 2.4 If battery acid contacts skin or clothing, wash immediately with soap and water. If acid enters eye, immediately flood eye with running cold water for at least 10 minutes and get medical attention immediately.
- 2.5 NEVER smoke or allow a spark or flame in vicinity of battery or engine.
- 2.6 Be extra cautious to reduce risk of dropping a metal tool onto battery. It might spark or short-circuit battery or other electrical part that may cause explosion.

- 2.7 Remove personal metal items such as rings, bracelets, necklaces, and watches when working with a lead-acid battery. A lead-acid battery can produce a short-circuit current high enough to weld a ring or the like to metal, causing a severe burn.
- 2.8 When charging the internal battery, work in a well ventilated area and do not restrict ventilation in any way.
- 2.9 Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help. Liquid ejected from the battery may cause irritation or burns.
- 2.10 Do not expose a power pack to fire or excessive temperature. Exposure to fire or temperature above 265°F (130°C) may cause explosion.
- 2.11 Have servicing performed by a qualified repair person using only identical replacement parts. This will ensure that the safety of the product is maintained.
- 2.12 Attach output cables to a battery and chassis as indicated below. Never allow the output clamps to touch one another.
- 2.13 Changes or modifications not expressly approved by Schumacher Electric could void the user's authority to operate this device.
- 2.14 **NOTE:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
  - Reorient or relocate the receiving antenna.
  - Increase the separation between the equipment and receiver.
  - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
  - Consult the dealer or an experienced radio/TV technician for help.

### 3. FEATURES



#### Models without rotary switch and USB port (model SJ1329)

1. Battery clamps
2. Battery status indicators
3. Built-in work light
4. Battery status button
5. Work light ON/OFF switch
6. 12V DC power outlet



#### Models with rotary switch and USB port (models FR01241, FR01549, and SJ1342)

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. 12V DC power outlet
7. Work light ON/OFF switch
8. Battery clamps

## 4. CHARGING THE INTERNAL BATTERY OF THE UNIT

**IMPORTANT!** CHARGE IMMEDIATELY AFTER PURCHASE, AFTER EACH USE AND EVERY 30 DAYS, TO KEEP THE UNIT'S INTERNAL BATTERY FULLY CHARGED AND PROLONG BATTERY LIFE.

### 4.1 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** – 20-80% of full charge.

**GREEN** – more than 80% of full charge.

### 4.2 CHARGING THE INTERNAL BATTERY

Charge the internal battery for the unit 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 unit is charging, the **RED LED** will be on. Complete charging may take up to 72 hours. When the **RED LED** turns off, the unit 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 unit as soon as possible after use.

### 4.3 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 – sold separately).

**IMPORTANT:** WHEN USING A 12V PORT CHARGING CABLE, DO NOT CHARGE INTERNAL BATTERY FOR MORE THAN 30 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 unit, 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

### 5.1 JUMP STARTING A VEHICLE

**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 unit'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 unit'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. (This does not apply to models without an ON/OFF switch.)
6. Crank the engine for no more than 8 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. (This does not apply to models without an ON/OFF switch.)
8. Remove the unit from the battery.
9. Charge the unit.

## 5.2 FOR MODELS WITH 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 unit ON.
3. Plug your device into the USB port.
4. Turn on the USB device.
5. When finished using the USB port, turn the switch to the OFF position.
6. Charge the unit.

## 5.3 FOR MODELS WITH WORK LIGHT

The work light is controlled by a sliding ON/OFF switch located on the front of the unit.

1. Make sure the lamp is turned OFF when the unit is being recharged or stored.
2. Position the unit on a flat, stable surface near the intended work area.
3. Ensure the battery clamps are securely clipped on the storage holders.

## 5.4 POWERING A 12V DC DEVICE

The unit 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 unit 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 unit.
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 unit 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 unit immediately after unplugging the 12V DC device.

### Estimated run-times

APPLIANCE TYPE	EST WATTAGE	EST USAGE
Cell phone	4 watts	13 hrs
Fluorescent light	4 watts	15 hrs
Radios, fans	9 watts	6.7 hrs
Depth finder	9 watts	6.7 hrs
Camcorder	15 watts	4 hrs
Electrical tool	24 watts	2.5 hrs
Electric cooler	48 watts	1.3 hrs
Car vacuum, air compressor	80 watts	0.8 hrs

**NOTE:** Actual time may vary. Times are based on the internal battery being fully charged.

## 6. MAINTENANCE INSTRUCTIONS

- 6.1 After use and before performing maintenance, unplug and disconnect the jump starter.
- 6.2 Use a dry cloth to wipe all battery corrosion and other dirt or oil from the battery clamps, cords and the

jump starter case.

6.3 Ensure that all of the jump starter components are in place and in good working condition.

6.4 All servicing should be performed by qualified service personnel.

## 7. MOVING AND STORAGE INSTRUCTIONS

7.1 Store inside, in a cool, dry place.

7.2 Do not store the clamps on the handle, clipped together, on or around metal, or clipped to cables. The clamps on the jump starter are live and will produce arcing or sparking if they come in contact with each other. To prevent accidental arcing, always place the switch in the OFF position (if equipped with one) and keep the clamps on the storage holders when not using it to jump start a vehicle.

7.3 If the jump starter is moved around the shop or transported to another location, take care to avoid/prevent damage to the cords, clamps and jump starter. Failure to do so could result in personal injury or property damage.

**IMPORTANT:** Do not use and/or store the jump starter in or on any area or surface where damage could occur if the internal battery should unexpectedly leak acid.

7.4 **IMPORTANT:**

• **CHARGE IMMEDIATELY AFTER PURCHASE**

• **KEEP FULLY CHARGED**

Charge the jump starter's internal battery immediately after purchase, after every use and every 30 days.

All batteries are affected by temperature. The ideal storage temperature is at 70°F. The internal battery will gradually self-discharge (lose power) over time, especially in warm environments. Leaving the battery in a discharged state may result in permanent battery damage. To ensure satisfactory performance and avoid permanent damage, charge the internal battery every month.

## 8. TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	SOLUTION
The unit 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 unit and reverse the clamps.
	The unit'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.
	For models equipped with an ON/OFF switch only: The unit is not turned on.	Turn the unit ON/OFF switch to the ON position.

PROBLEM	POSSIBLE CAUSE	SOLUTION
The unit won't power my 12V device.	<p>The 12V device is not turned on.</p> <p>The unit's battery is not charged.</p> <p>The 12V device draws more than 15A, has a short circuit, or the internal fuse has blown.</p>	<p>Turn on the 12V device.</p> <p>Check the battery charge status by pressing the Battery Status button.</p> <p><b>For models with an internal breaker (FR01549, SJ1342):</b> Disconnect the 12V device and wait 10 minutes for the internal breaker to automatically reset.</p> <p><b>For models with an internal fuse (FR01241, SJ1329):</b> The internal fuse needs to be replaced with one of the same type and rating. This should be done by a qualified service person.</p>
The battery in the unit won't hold a charge.	The battery is bad (will not accept a charge).	Have the battery checked.

## 9. ACCESSORIES

Male-to-male accessory cable .....94500109

## 10. BEFORE RETURNING FOR REPAIRS

For REPAIRS OR RETURNS, visit [365rma.com](http://365rma.com)  
 Visit [schumacherelectric.com](http://schumacherelectric.com) for Replacement Parts.

## 11. LIMITED WARRANTY

For information on our one-year limited warranty, please visit [schumacherelectric.com](http://schumacherelectric.com) or call 1-800-621-5485 to request a copy.  
 Go to [schumacherelectric.com](http://schumacherelectric.com) to register your product online.



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