

Lithium Ion Jump Starter and USB Power Source

OWNERS MANUAL

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.

1. IMPORTANT SAFETY INSTRUCTIONS – SAVE THESE INSTRUCTIONS.

WARNING: RISK OF EXPLOSIVE GASES.

WORKING IN THE VICINITY OF A LEAD-ACID BATTERY IS DANGEROUS. BATTERIES GENERATE EXPLOSIVE GASES DURING NORMAL OPERATION. IT IS IMPORTANT THAT YOU FOLLOW THESE INSTRUCTIONS EACH TIME YOU USE THE UNIT.

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 markings on these products and on the engine.

WARNING! RISK OF ELECTRIC SHOCK OR FIRE.

- 1.1 Keep out of reach of children.
- 1.2 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.
- 1.3 Do not use the jump starter to jump a vehicle while charging the internal battery.
- 1.4 Do not recharge the jump starter with a damaged USB cable.
- 1.5 The jump starter gets hot during charging and must have proper ventilation.
- 1.6 Do not set the jump starter on flammable materials, such as carpeting, upholstery, paper, cardboard, etc.
- 1.7 Place the jump starter as far away from the battery being jumped as the cables will permit.
- 1.8 Do not expose the jump starter to rain or snow.
- 1.9 Never attempt to jump start a frozen battery.
- 1.10 Never place the jump starter directly above battery being jumped.
- 1.11 To prevent arcing, never allow the clamps to touch together or to contact the same piece of metal.
- 1.12 Use of an attachment not recommended or sold by the jump starter manufacturer may result in damage to the unit or personal injury.
- 1.13 Never operate the jump starter if it is damaged.
- 1.14 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.
- 1.15 The jump starter is NOT designed to be installed as a replacement for a vehicle battery.
- 1.16 Use ONLY on vehicles, boats and garden tractors powered with a 12V DC battery system.
- 1.17 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.
- 1.18 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

- 2.1 Wear complete eye protection and protective clothing when working near lead-acid batteries. Always have someone nearby for help.
- 2.2 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.
- 2.3 If battery acid comes in contact with eyes, flush eyes immediately for a minimum 10 minutes and get medical attention.
- 2.4 Neutralize any acid spills thoroughly with baking soda before attempting to clean up.
- 2.5 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.
- 2.6 Never smoke or allow a spark or flame in the vicinity of the battery or engine.
- 2.7 **This product contains a lithium ion battery.** In case of fire, you may use water, a foam extinguisher, Halon, CO₂, ABC dry chemical, powdered graphite, copper powder or soda (sodium carbonate) to extinguish the fire. Once the fire is extinguished, douse the product with water, an aqueous-based extinguishing agent, or other nonalcoholic liquids to cool the product and prevent the battery from re-igniting. NEVER attempt to pick up or move a hot, smoking, or burning product, as you may be injured.
- 2.8 **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



1. Battery clamps
2. Micro-USB charging port
3. Ready/Fail LED
4. Battery status/Light button
5. Battery status indicators
6. Built-in work light
7. ON/OFF Power switch
8. USB port
9. Micro/USB charging cable
10. Reversed LED

4. CHARGING THE INTERNAL BATTERY OF THE JUMP STARTER

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

4.1 CHECKING THE LEVEL OF THE INTERNAL BATTERY

Press the ON/OFF Power switch, and then press the **Battery Status/Light** button on the front of the unit. The LEDs will indicate the current charge level as follows:

Red LED flashing: 0-5% of full charge; immediately charge the unit.

Red LED solid: 6-49% of full charge.

Yellow LED solid: 50-75% of full charge.

Green LED solid: 76-100% of full charge.

4.2 CHARGING THE INTERNAL BATTERY

The jump starter will fully charge in 3-4 hours.

NOTE: Use a 2A USB charger (not included), or a 2A USB charging port to quickly recharge the jump starter. Using a charger with less than 2A will increase charge time.

1. Plug the Micro USB end of a charging cable into the input port. Next, plug the USB end of the charging cable into your charger's USB port.
2. Plug your charger into a live power source.
3. When the unit is charging, the three LEDs will flash as follows:
 - Red LED flashing:** 0-49%
 - Red LED solid and Yellow LED flashing:** 50-75%
 - Red and Yellow LEDs solid and Green LED flashing:** 76-99%
 - Green LED solid:** 100%
4. Ten seconds after the battery has reached full charge, the green LED will turn solid.
5. If the Red **Ready/Fail** LED lights and the buzzer sounds, the unit's protection has been activated (such as short circuit protection, reverse polarity protection, etc.) and the unit will not operate.
6. When the battery is fully charged, disconnect your charger from the power source and then remove the charging cable from the charger and the unit. Make sure the power switch is set to OFF, if not using the jump starter immediately.

5. OPERATING INSTRUCTIONS

5.1 JUMP STARTING A VEHICLE

IMPORTANT: Using the jump starter 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. Press the ON/OFF switch to turn on the jump starter. The green **Ready** LED will light.
6. It is best to wait 30 seconds after clamp connection to attempt to start the vehicle. Crank for up to 5 seconds. If engine does not start, wait 30 seconds before cranking again.
7. After the engine starts, press the ON/OFF switch to turn the jump starter off, and then disconnect the black clamp (-) and the red clamp (+), in that order.
8. Recharge the unit as soon as possible after each use. **NOTE:** Recharge the unit when all LEDs are off.

5.2 USING THE USB PORT

The USB port provides up to 2.4A at 5V DC.

1. Ensure the battery clamps are securely clipped on the storage holders.
2. Flip the ON/OFF power switch to 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. Recharge the unit as soon as possible after each use.

5.3 USING THE WORK LIGHT

1. Position the jump starter on a flat, stable surface near the intended work area.
2. Ensure the battery clamps are securely clipped on the storage holders.
3. Flip the ON/OFF power switch to the ON position.

4. Press the **Battery Status/Light** button on the front of the unit for 0.75 second, to turn on the work light.
5. When finished using the work light, press the button for 0.75 second, to turn off the work light.
6. Recharge the unit as soon as possible after each use.

5.4 ENERGY SAVING MODE

If the unit is not used after the ON/OFF power switch is turned on, the unit will go into Energy Saving mode after 10 minutes to prevent battery discharge. Follow these steps to use any function after Energy Saving mode:

1. Press the ON/OFF power switch to turn the unit ON.
2. The Green **Ready/Fail** LED will light.
3. After 10 minutes, the USB port and Battery Status/Light function will turn off.
4. After 10 minutes, the Green **Ready/Fail** LED will turn off.
5. Press the **Battery Status/Light** button once. The unit is now ready for checking the battery status and using the jump starter, USB and work light.

6. MAINTENANCE AND STORAGE

- 6.1 Clean the clips and the case each time you are finished using it.
- 6.2 Charge battery to full capacity before storage.
- 6.3 Store this unit at the temperatures between 14°F and 113°F (-10°C and 45 °C).
- 6.4 Store clips on their support posts, to ensure they do not come into contact with any metallic surface.
- 6.5 Never completely discharge the internal battery.
- 6.6 Charge after each use.
- 6.7 Charge at least once every month, if not in frequent use, to prevent over-discharge.

7. TROUBLESHOOTING

| PROBLEM | POSSIBLE CAUSE | SOLUTION |
|--|---|--|
| 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. | Press ON/OFF switch to turn on the jump starter. |
| The jump starter will not operate. | Low temperature protection. | Use the USB adaptor to charge and activate. |
| The battery in the jump starter won't hold a charge. | The battery is bad (will not accept a charge). | Have the battery checked. |

Ready/Fail and Reversed LED Behavior

| | |
|--|--------------------------------------|
| Ready/Fail LED lit solid green | Ready to jump start |
| Ready/Fail LED lit solid red and buzzer sounds continuously | Short circuit protection |
| No LED lit and no buzzer beep | Battery exhausted |
| Ready/Fail and Reversed LED lit solid red and buzzer sounds continuously | Reverse polarity protection |
| Ready/Fail LED flashing red and buzzer sounds every second | High temperature protection for unit |

Battery Status LED Behavior

| | |
|--|--------------------------------------|
| Red, Yellow and Green LEDs flash at the same time. | High temperature protection for unit |
|--|--------------------------------------|

8. REPLACEMENT PARTS

Micro USB-USB charging cable..... 3899003781Z

9. BEFORE RETURNING FOR REPAIRS

For REPAIRS OR RETURNS, visit 365rma.com
 Visit schumacherelectric.com for Replacement Parts.

10. LIMITED WARRANTY

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



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