



MODEL / MODELOS / MODÈLES :

SL1391, SL1398, SL1399

Lithium Ion

Tactical Jump Starter Light

**Luz táctica de arrancador
de emergencia de ion litio**

**Lampe torche/booster de démarrage
avec batterie lithium-ion**

**OWNERS MANUAL / MANUAL DEL USUARIO
MANUEL D'UTILISATION**



SL1398

PLEASE SAVE THIS OWNERS MANUAL AND READ BEFORE EACH USE. This manual will explain how to use the work light safely and effectively. Please read and follow these instructions and precautions carefully.

POR FAVOR CONSERVE ESTE MANUAL DEL USUARIO Y LEALO ANTES DE CADA USO. En este manual le explica cómo utilizar la luz de trabajo de manera segura y confiable. Por favor, lea y siga las siguientes instrucciones y precauciones.

ESSAYER DE GARDER LE MANUEL D'INSTRUCTIONS ET LE LIRE AVANT CHAQUE UTILISATION. Ce manuel explique comment utiliser l'unité d'une façon sûre et efficace. S'il vous plaît lisez et suivez ces instructions et précautions.

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1. IMPORTANT SAFETY INSTRUCTIONS

SAVE THESE INSTRUCTIONS.

WARNING! RISK OF ELECTRIC SHOCK OR FIRE.

- 1.1 **SAVE THESE INSTRUCTIONS** – This manual contains important safety and operating instructions.
- 1.2 Read, understand and follow all instructions, cautions and warnings listed in this manual. Failure to follow all instructions and abide by all cautions and warnings could result in personal injury, injury to others and property damage.
- 1.3 This jump starter is not intended for use by children. Persons with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, must be given supervision or instruction concerning the use of the product by a person responsible for their safety.
- 1.4 Children should be supervised to ensure they do not play with the unit.
- 1.5 **DO NOT** put fingers or hands into any of the unit's outlets.
- 1.6 **DO NOT** expose the unit to rain or snow.
- 1.7 The appliance is to be used only with the provided power supply.
- 1.8 Use only recommended attachments. Use of an attachment not recommended or sold by Schumacher® Electric Corporation may result in a risk of fire, electric shock or injury to persons or damage to property.
- 1.9 **DO NOT** operate the unit with damaged cables or clamps.
- 1.10 **DO NOT** operate the unit if it has received a sharp blow, been dropped or otherwise damaged in any way; take it to a qualified service person.

WARNING! RISK OF EXPLOSIVE GASES.

- 1.11 **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.**
- 1.12 To reduce the risk of a 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 the battery. Review the cautionary markings on these products and on the engine.
- 1.13 **DO NOT** set the unit on flammable materials, such as carpeting, upholstery, paper, cardboard, etc.
- 1.14 **NEVER** place the unit directly above battery being jumped.
- 1.15 **DO NOT** use the unit to jump start a vehicle while charging the internal battery.
- 1.16 **IMPORTANT! CHARGE THE UNIT IMMEDIATELY AFTER PURCHASE, AFTER EACH USE, AND AT LEAST EVERY 3 MONTHS.**
- 1.17 **DO NOT** turn on the unit while it is being charged.
- 1.18 **DO NOT** handle or move the unit while it is being charged.
- 1.19 **DO NOT** look directly into the light or shine the light directly into the eyes of any person or animal.
- 1.20 **DO NOT** leave the battery in a discharged state.
- 1.21 **DO NOT** use the unit with a charger which has a damaged cord or plug; replace the cord or plug immediately.

2. PERSONAL SAFETY PRECAUTIONS

WARNING! RISK OF EXPLOSIVE GASES.

A SPARK NEAR THE BATTERY MAY CAUSE A BATTERY EXPLOSION.

TO REDUCE THE RISK OF A SPARK NEAR THE BATTERY:

- 2.1 **NEVER** smoke or allow a spark or flame in the vicinity of a battery or engine.
- 2.2 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 to metal, causing a severe burn.
- 2.3 Be extra cautious, to reduce the risk of dropping a metal tool onto the battery. It might spark or short-circuit the battery or other electrical part that may cause an explosion.
- 2.4 Do not permit the internal battery of the unit to freeze. Never charge a frozen battery.
- 2.5 To prevent sparking, **NEVER** allow clamps to touch together or contact the same piece of metal.
- 2.6 Consider having someone nearby to come to your aid when you work near a lead-acid battery.
- 2.7 Have plenty of fresh water, soap and baking soda nearby for use, in case battery acid contacts your eyes, skin, or clothing.
- 2.8 Wear complete eye and body protection, including safety goggles and protective clothing. Avoid touching your eyes while working near the battery.
- 2.9 If battery acid contacts your skin or clothing, immediately wash the area with soap and water. If acid enters your eye, immediately flood the eye with cold running water for at least 10 minutes and get medical attention right away.
- 2.10 If battery acid is accidentally swallowed, drink milk, the whites of eggs or water. **DO NOT** induce vomiting. Seek medical attention immediately.
- 2.11 Neutralize any acid spills thoroughly with baking soda before attempting to clean up.

WARNING! TO REDUCE THE RISK OF BURNS OR FIRE, FOLLOW THESE SAFETY PRECAUTIONS:

- 2.12 **DO NOT** disassemble the unit; 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.
- 2.13 **DO NOT** crush, puncture, short external contacts or dispose of in fire or water.
- 2.14 **DO NOT** expose to temperatures above 140°F (60°C) or below -4°F (-20° C).
- 2.15 Recycle or dispose of the used battery as required by local regulations.
- 2.16 If the electrolyte in the cells gets on your skin, wash thoroughly with soap and water. If it gets into your eyes, rinse thoroughly with cool water and **seek immediate medical attention.**
- 2.17 **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.

3. PREPARING TO USE THE UNIT

**WARNING! RISK OF CONTACT WITH BATTERY ACID.
BATTERY ACID IS A HIGHLY CORROSIVE SULFURIC ACID.**

- 3.1 Make sure the area around the battery is well ventilated while the unit is in use.
- 3.2 Clean the battery terminals before using the jump starter. During cleaning, keep airborne corrosion from coming into contact with your eyes, nose and mouth. Use baking soda and water to neutralize the battery acid and help eliminate airborne corrosion. Do not touch your eyes, nose or mouth.
- 3.3 Determine the voltage of the battery by referring to the vehicle owner's manual and make sure that the output voltage is 12V.
- 3.4 Make sure that the unit's cable clamps make tight connections.

4. FOLLOW THESE STEPS WHEN CONNECTING TO A BATTERY

WARNING! A SPARK NEAR THE BATTERY MAY CAUSE A BATTERY EXPLOSION. TO REDUCE THE RISK OF A SPARK NEAR THE BATTERY:

- 4.1 Plug the clamps into the unit, and then attach the output cables to the battery and chassis as indicated below. Never allow the output clamps to touch each other.
- 4.2 Position the DC cables to reduce the risk of damage by the hood, door and moving or hot engine parts. **NOTE:** If it is necessary to close the hood during the jump starting process, ensure that the hood does not touch the metal part of the battery clips or cut the insulation of the cables.
- 4.3 Stay clear of fan blades, belts, pulleys and other parts that can cause injury.
- 4.4 Check the polarity of the battery posts. The POSITIVE (POS, P, +) battery post usually has a larger diameter than the NEGATIVE (NEG, N, -) post.
- 4.5 Determine which post of the battery is grounded (connected) to the chassis. If the negative post is grounded to the chassis (as in most vehicles), see step 4.6. If the positive post is grounded to the chassis, see step 4.7.
- 4.6 For a negative-grounded vehicle, connect the POSITIVE (RED) clamp from the jump starter to the POSITIVE (POS, P, +) ungrounded post of the battery. Connect the NEGATIVE (BLACK) clamp to the vehicle chassis or engine block away from the battery. Do not connect the clamp to the carburetor, fuel lines or sheet-metal body parts. Connect to a heavy gauge metal part of the frame or engine block.
- 4.7 For a positive-grounded vehicle, connect the NEGATIVE (BLACK) clamp from the jump starter to the NEGATIVE (NEG, N, -) ungrounded post of the battery. Connect the POSITIVE (RED) clamp to the vehicle chassis or engine block away from the battery. Do not connect the clamp to the carburetor, fuel lines or sheet-metal body parts. Connect to a heavy gauge metal part of the frame or engine block.
- 4.8 When finished using the jump starter, remove the clamp from the vehicle chassis and then remove the clamp from the battery terminal. Disconnect the clamp cable from the unit.

5. SET UP INSTRUCTIONS

5.1 Remove any cord wraps and uncoil the charging cable.

6. FEATURES

Model SL1398 is shown.



7. CHARGING THE UNIT

IMPORTANT! CHARGE THE UNIT IMMEDIATELY AFTER PURCHASE, AFTER EACH USE, AND AT LEAST EVERY 3 MONTHS, OR WHEN THE CHARGE LEVEL FALLS BELOW 50%, TO KEEP THE INTERNAL BATTERY FULLY CHARGED AND PROLONG BATTERY LIFE.

Failure to do this will reduce the battery's capacity and may void the warranty.

7.1 CHECKING THE LEVEL OF THE INTERNAL BATTERY

Press the Power button to check the battery level of the unit. The LEDs will indicate the battery level, as follows:

- **Red LED flashing:** $\leq 5\%$ power
- **Red LED lit:** $\leq 50\%$ power
- **Green LED lit:** $> 50\%$ power

Charge the internal battery if the level is below 50%.

7.2 CHARGING THE INTERNAL BATTERY

NOTE: Use a 1A USB charger (not included) to recharge the jump starter. Using a charger with less than 1A will increase charge time.

1. When charging the internal battery, work in a well ventilated area and do not restrict the ventilation in any way.
2. Connect the micro USB end of the charging cable to the micro USB port on the end of the unit. Insert the USB end of the cable into the USB port on your charger.
3. Plug your charger into a live power source.
4. The LED will indicate the charge level, as follows:
 - **Red LED flashing:** \leq 50% power
 - **Green LED flashing:** $>$ 50% power
 - **Green LED lit:** 100% power
5. Charging may take 6.5-15.5 hours, depending on the battery level and model type.
6. Recharge the unit after use, and at least every 3 months.

8. OPERATING INSTRUCTIONS

8.1 JUMP STARTING A VEHICLE ENGINE

NOTE: Use only the provided jump cable.

IMPORTANT: Do not use the jump starter while charging its internal battery.

IMPORTANT: Using the jump starter without a battery installed in the vehicle will damage the vehicle's electrical system.

NOTE: The internal battery must have a charge of at least 50% to jump start a vehicle.

1. Turn the ignition OFF.
2. Lay the DC cables away from any fan blades, belts, pulleys and other moving parts. Make sure all of the vehicle's electrical devices are turned off.
3. Plug the battery clamp smart cable into the jump starter's output socket. The green LED on the smart cable should flash.
4. For a negative-grounded vehicle, connect the POSITIVE (RED) clamp from the jump starter to the POSITIVE (POS, P, +) ungrounded post of the battery. Connect the NEGATIVE (BLACK) clamp to the vehicle chassis or engine block away from the battery. Do not connect the clamp to the carburetor, fuel lines or sheet-metal body parts. Connect to a heavy gauge metal part of the frame or engine block.
5. For a positive-grounded vehicle, connect the NEGATIVE (BLACK) clamp from the jump starter to the NEGATIVE (NEG, N, -) ungrounded post of the battery. Connect the POSITIVE (RED) clamp to the vehicle chassis or engine block away from the battery. Do not connect the clamp to the carburetor, fuel lines or sheet-metal body parts. Connect to a heavy gauge metal part of the frame or engine block.
6. The smart cable will detect the voltage of the vehicle and jump starter, and will make a clicking sound. The green LED on the smart cable should light.
7. Turn the key to the ACC position.

8. When the green LED is solid, the unit is ready to jump start the vehicle.
NOTE: If the vehicle battery is extremely discharged, the initial current draw from the jump starter may activate short circuit protection in the smart cable. Disconnect and reconnect the smart cable to reset.
9. After a proper connection has been made, crank the engine. If the engine does not start within 5-8 seconds, stop cranking and wait at least 2 minutes before attempting to start the vehicle again.
NOTE: If the car does not crank a second time, check the smart cable to see if the green LED is lit. If the green LED flashes or the red LED lights, refer to the information on the back of the smart cable.
NOTE: Cold weather may affect the performance of the jump starter's lithium battery. If you hear only a click and the engine does not turn over, try the following:
With the jump starter connected to the car battery and the green LED illuminated on the smart cable, turn on all lights and electrical accessories for one minute. This draws current from the jump starter and warms the battery. Now try to crank the engine. If it does not turn over, repeat the procedure. Extremely cold weather may require two or three battery warmings before the engine will start.
IMPORTANT: DO NOT attempt to jump start your vehicle more than three consecutive times. If the vehicle will not start after three attempts, consult a service technician.
10. After the engine starts, disconnect the black clamp (-) and the red clamp (+), in that order, and then unplug the battery clamp cable from the jump starter socket.
11. Recharge the unit as soon as possible after each use.

8.2 USING THE FLASHLIGHT

1. **Press and hold the Power button for 3 seconds** to turn on the light.
2. Press lightly on the Power button to cycle through the following modes:
 - Steady glow
 - Flash in strobe mode
 - Flash for an SOS signal
 - OFF
3. When finished using the flashlight, press the Power button until the light turns off.
4. Recharge the unit as soon as possible after each use.

8.3 CHARGING A MOBILE DEVICE

The USB port provides up to 2.1A at 5V DC.

1. Connect a mobile device cable to the USB port.
2. Charging should begin automatically.
3. Charging time will vary, based on the mobile device's battery size.
4. When finished using the USB port, disconnect the charging cable from your mobile device and then disconnect the charging cable from the unit.
5. Recharge the unit as soon as possible after each use.

9. MAINTENANCE INSTRUCTIONS

- 9.1 After use and before performing maintenance, unplug and disconnect the unit.
- 9.2 Use a dry cloth to wipe any dirt or oil from the smart cable, charging cable and case.
- 9.3 Ensure that all of the unit's components are in place and in good working condition.
- 9.4 Servicing does not require opening the unit, as there are no user-serviceable parts.
- 9.5 Any servicing should be performed by qualified service personnel.

10. STORAGE INSTRUCTIONS

- 10.1 Store inside, in a cool, dry place.
- 10.2 Take care to avoid/prevent damage to the smart cable, charging cable and unit. Failure to do so could result in personal injury or property damage.
- 10.3 Charge the unit's internal battery immediately after purchase, after every use and every 3 months.
- 10.4 All batteries are affected by temperature. The ideal storage temperature is at 70°F (21 °C). 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 3 months.

11. TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	SOLUTION
The unit does not operate.	The battery is not charged.	Recharge the battery to full charge.
The unit will not recharge.	No power at receptacle.	Make sure the power source is live.
The jump starter turns on, but won't jump start my vehicle.	The connections are poor.	Check connections.
	The battery power is low.	Verify the charge level of the jump starter is at least 50%.
	The vehicle requires more power than can be supplied by the jump starter.	Do not attempt to jump start your vehicle more than three consecutive times. If the vehicle still does not start, consult a qualified service technician.

Smart Cable LED and Alarm Behavior

BEHAVIOR	REASON
Green LED flashing	Ready to connect the smart cable to the jump starter, and ready to connect the clamps to the vehicle.
Green LED solid (with clicking sound)	Detecting the condition of the vehicle and jump starter.
Green LED solid	Ready to jump start the vehicle. After jump start, disconnect the clamps.
Red LED lit (no alarm)	Voltage is too high or too low for starting a vehicle.
Red LED lit; long buzzer alarm	The connection is reversed. Short circuit protection. Overload protection.

NOTE: Disconnect and reconnect the smart cable to reset.

12. BEFORE RETURNING FOR REPAIRS (U.S./CANADA)

For information about troubleshooting, contact customer service for assistance:

services@schumacherelectric.com
www.batterychargers.com or call 1-800-621-5485

For **REPAIR OR RETURN**, contact Customer Service at 1-800-621-5485. **DO NOT SHIP UNIT** until you receive a **RETURN MERCHANDISE AUTHORIZATION (RMA)** number from Customer Service at Schumacher Electric Corporation.

When returning an item, place the original package into a shipping carton. If you received an emailed label from Schumacher, please print the label and tape it to the carton. **Only ship via insured ground service with a tracking number.** Return shipping charges are the responsibility of the customer. We cannot accept C.O.D. deliveries and are not responsible for lost or damaged packages. Please do not place stickers or shipping labels on the original manufacturer's package. Please allow 2-3 days from date we received the package for us to process your return. All return shipping charges must be prepaid.

13. DISPOSAL INFORMATION



Do not dispose of this product with other household waste. To prevent possible harm to the environment or human health from uncontrolled waste disposal, and to promote the sustainable reuse of material resources, recycle it responsibly. To discard your used device, please use the return and collection systems or contact the retailer where the product was purchased, for environmentally-safe recycling.

14. SPECIFICATIONS

SL1391

Battery type	Lithium Polymer, 37 Wh
Peak current.....	800A
Starting current.....	400A
Light	Cree® LED, 600 lm
Micro USB input	5V, 1A
USB output.....	5V, 2.1A

SL1398

Battery type	Lithium Polymer, 55.5 Wh
Peak current.....	1000A
Starting current.....	500A
Light	Cree® LED, 600 lm
Micro USB input	5V, 1A
USB output.....	5V, 2.1A

SL1399

Battery type	Lithium Polymer, 22.2 Wh
Peak current.....	400A
Starting current.....	200A
Light	SMD LED, 600 lm
Micro USB input	5V, 1A
USB output.....	5V, 2.1A

Cree® is a registered trademark of Cree, Inc.

15. REPLACEMENT PARTS

SL1391

USB to Micro USB charging cable.....	3899003982Z
Smart cable/clamps.....	3899003986Z
Bag for accessories.....	5899000037Z

SL1398

USB to Micro USB charging cable.....	3899003982Z
Smart cable/clamps.....	3899003985Z
Bag for accessories.....	5899000037Z

SL1399

USB to Micro USB charging cable.....	3899003982Z
Smart cable/clamps.....	3899003986Z

16. 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 unit for one (1) year 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 MANUFACTURER NEITHER ASSUMES OR AUTHORIZES ANYONE TO ASSUME OR MAKE ANY OTHER OBLIGATION TOWARDS THE PRODUCT OTHER THAN THIS WARRANTY.

**For customers outside of the U.S.A.,
contact your local distributor.**

**Australia/New Zealand:
Schumacher Asia Pacific Pty. Ltd.
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Unit 53B – 28 Burnside Road, Ormeau
Queensland, Australia, 4208
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