

RED FUEL™

POWERED BY SCHUMACHER

Model / Modelo / Modèle : **SL1**

Lithium Ion Jump Starter, Fuel Pack and Backup Power

**Litio Ion Jump Starter, pack de energía
y energía de reserva**

**Lithium ion aide-démarrage, bloc d'alimentation
et énergie de secours**

OWNER'S MANUAL / MANUAL DEL USUARIO / MANUEL D'UTILISATION



PLEASE SAVE THIS OWNER'S MANUAL AND READ BEFORE EACH USE.

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

POR FAVOR GUARDE ESTE MANUAL DEL PROPIETARIO Y LEER ANTES DE

CADA USO. En este manual se explica cómo utilizar la unidad segura y efectiva. 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.



CONTENTS

IMPORTANT SAFETY INSTRUCTIONS	3
PERSONAL PRECAUTIONS	3
PREPARING TO USE THE UNIT	4
FOLLOW THESE STEPS WHEN CONNECTING TO A BATTERY	4
FEATURES	4
CONTROL PANEL	5
CHARGING THE INTERNAL BATTERY	5
OPERATING INSTRUCTIONS	6
DISPLAY MESSAGES	7
MAINTENANCE INSTRUCTIONS	7
STORAGE INSTRUCTIONS	8
TROUBLESHOOTING	8
BEFORE RETURNING FOR REPAIRS	9
SPECIFICATIONS	9
REPLACEMENT PARTS/ACCESSORIES	9
LIMITED WARRANTY	10
WARRANTY CARD	27

CONTENIDOS

INSTRUCCIONES IMPORTANTES DE SEGURIDAD	11
PRECAUCIONES DE SEGURIDAD PERSONAL	11
PREPARACIÓN PARA EL USO	12
SIGA ESTOS PASOS CUANDO SE CONECTE A LA BATERÍA	12
CARACTERÍSTICAS	13
PANEL DE CONTROL	13
PARA CARGAR LA BATERIA INTERNA	13
INSTRUCCIONES DE OPERACIÓN	14
MENSAJES DE LA PANTALLA	15
INSTRUCCIONES DE MANTENIMIENTO	16
INSTRUCCIONES DE ALMACENAMIENTO	16
RESOLUCIÓN DE PROBLEMAS	16
ANTES DE DEVOLVER A REPARACIONES	17
ESPECIFICACIONES	18
REPUESTOS / ACCESORIOS	18
GARANTÍA LIMITADA	18
TARJETA DE GARANTÍA	27

TABLE DES MATIÈRES

CONSIGNES DE SÉCURITÉ IMPORTANTES	19
MESURES DE SÉCURITÉ PERSONNELLE	19
PRÉPARATION UTILISER L'APPAREIL	20
SUIVEZ CES ÉTAPES LORSQUE CONNEXION À UNE BATTERIE	20
CARACTÉRISTIQUES	21
PANNEAU DE CONTRÔLE	21
CHARGE DE LA BATTERIE INTERNE	21
CONSIGNES D'UTILISATION	22
MESSAGES D'AFFICHAGE	23
CONSIGNES D'ENTRETIEN	24
INSTRUCTIONS DE STOCKAGE	24
TABLEAU DE DÉPANNAGE	24
SPÉCIFICATIONS	26
PIÈCES DE RECHANGE / ACCESSOIRES	26
GARANTIE LIMITÉE	26
CARTE DE GARANTIE	28

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: Pursuant to California Proposition 65, this product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Wash hands after handling.

WARNING! RISK OF ELECTRIC SHOCK OR FIRE.

- 1.1 Read the entire manual before using this product. Failure to do so could result in serious injury or death.
- 1.2 Keep out of reach of children.
- 1.3 Do not put fingers or hands into any of the unit's outlets.
- 1.4 Do not expose the unit to rain or snow.
- 1.5 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.
- 1.6 To reduce the risk of damage to the electric plug or cord, pull by the adaptor rather than the cord when disconnecting the unit.
- 1.7 Do not operate the unit with damaged cables or clamps.

1.8 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.

1.9 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.

WARNING! RISK OF EXPLOSIVE GASES.

- 1.10 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.
- 1.11 Do not set the unit on flammable materials, such as carpeting, upholstery, paper, cardboard, etc.
- 1.12 Never place the unit directly above battery being jumped.
- 1.13 Do not use the unit to jump start a vehicle while charging the internal battery.

2. PERSONAL 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.

3. PREPARING TO USE THE UNIT

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

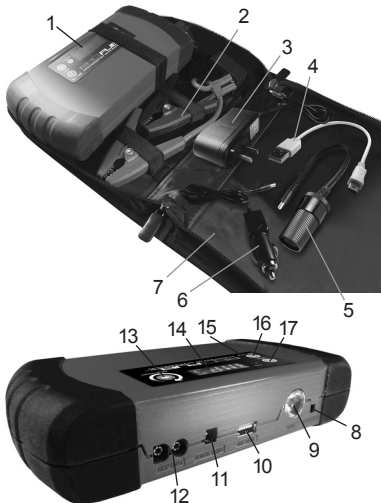
- 3.1 Make sure the area around the battery is well ventilated while the unit is in use.
- 3.2 Clean the battery terminals before using the jump starter. During cleaning, keep airborne corrosion from coming into contact with your eyes, nose and mouth. Use baking soda
- 3.3 Determine the voltage of the 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 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 Power Pack 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 Power Pack 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 disconnecting the unit, press the jump start button to turn off, remove the clamp from the vehicle chassis, then remove the clamp from the battery terminal.

5. FEATURES



1. SL1
2. Battery clamp adaptor
3. 100V~120V AC wall charger
4. USB/Micro USB connector
5. 12V port adaptor
6. 12V DC car charger
7. Case
8. 12V Input socket for recharging
9. Light
10. USB port
11. 12V DC port
12. Jump starter input socket
13. Jump Start button
14. Digital display
15. Charging LED indicator
16. 12V/USB button
17. Light button

6. CONTROL PANEL

DIGITAL DISPLAY

When the clamps are connected to a vehicle's battery, the digital display indicates the battery's voltage. When not connected to a battery, the digital display is used to indicate the percent of charge of the jump starter's internal battery. See *Display Messages* for a complete list of messages.

NOTE: If the vehicle's battery voltage is too low to detect, the display will remain blank; the voltage will not display. A manual start procedure is required to enable the jump start function. See Section 8.2, *Starting a Battery with Low Voltage*.

NOTE: During charging, the display will go into sleep mode and will not display any messages. To turn the display back on, press any button.

LED INDICATOR

- **Green LED solid** – The internal battery is charging.
- **Green LED flashing** – Charging has aborted.
- **Green LED pulsing** – The internal battery is fully charged.

FUNCTION BUTTONS



LIGHT – Operates the LED light



12V/USB – Enables the 12V DC port and the USB port



JUMP START – Enables the jump start function



7. CHARGING THE INTERNAL BATTERY

IMPORTANT! CHARGE IMMEDIATELY AFTER PURCHASE, AFTER EACH USE AND EVERY 3-6 MONTHS, TO KEEP THE INTERNAL BATTERY FULLY CHARGED AND PROLONG BATTERY LIFE.

7.1 To reduce the risk of electric shock, unplug the unit's wall charger from the outlet before attempting any maintenance or cleaning. Simply turning off the controls will not reduce this risk.

7.2 When charging the internal battery, work in a well ventilated area and do not restrict the ventilation in any way.

7.3 CHECKING THE LEVEL OF THE INTERNAL BATTERY

To check the internal battery's charge level, make sure the unit is turned OFF, then press the  or  button. The digital display will show the battery's percent of charge. A fully charged internal battery will read 100%. Charge the internal battery if the display shows it is under 100%.

7.4 CHARGING THE INTERNAL BATTERY, USING THE AC WALL CHARGER

WARNING! Use only the charger included with the unit to charge the internal battery. Using any other charger will damage the unit.

1. Plug the AC wall charger into the unit's 12V input socket.
2. Connect the wall charger to a 120VAC electrical wall outlet.
3. The green LED will light, and the display will show **CHARGING-xx%**. Complete charging may take 4-6 hours.

4. When the internal battery is completely charged, the green LED will pulse, and the display will show **FULLY CHARGED**.

5. When the battery is fully charged, disconnect the wall charger from the AC outlet, and then unplug the wall charger from the unit.

6. Charge the unit as soon as possible after use.

7.5 CHARGING THE INTERNAL BATTERY WHILE DRIVING

You may also charge the internal battery while driving, using the 12V DC car charger (included).

1. Make sure the car is running.
 2. Plug the 12V DC adaptor cable into the unit's 12V input socket.
 3. Insert the other end of the accessory cable into the vehicle's accessory outlet (lighter socket).
 4. The green LED will light, and the display will show **CHARGING-xx%**. Complete charging may take 4-6 hours.
 5. When the internal battery is completely charged, the green LED will pulse, and the display will show **FULLY CHARGED**.
 6. When the battery is fully charged, disconnect the accessory cable from the unit, then from the lighter socket of the vehicle.
 7. Charge the unit as soon as possible after use.
- NOTE:** Completely disconnect the charger cable when the engine is not running.

8. OPERATING INSTRUCTIONS


8.1 JUMP STARTING A VEHICLE ENGINE

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.


1. Turn the ignition OFF.
2. Lay the DC cables away from any fan blades, belts, pulleys and other moving parts.
3. Plug the battery clamp cable into the jump starter's input socket.

NOTE: Make sure all of the vehicle's electrical devices are turned off.

4. 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.
5. For a positive-ground vehicle, connect the 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.
6. After a proper connection has been made, press the  button. When the display shows **JUMP START READY**, the jump starter is ready for use.


WARNING! RISK OF EXPLOSION.

If you have connected the clamps backwards, an audio alarm will sound, and the display will show **WARNING-CLAMPS REVERSED**. Press the  button to turn off the unit. Reverse the connections. Press the  button to turn the unit back on.

7. 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 the vehicle again. The display will show **BATTERY COOL DOWN xx SEC REMAINING**. When the display shows **JUMP START READY**, the jump starter is ready for use.
8. After the engine starts, press the  button to turn the unit off. Disconnect the black clamp (-) and then the red clamp (+), in that order.
9. Recharge the unit as soon as possible after each use.

8.2 STARTING A BATTERY WITH LOW VOLTAGE

If the vehicle's battery voltage is too low for the jump starter to detect that the clamps are connected, there is a manual start procedure to enable the jump start function.


1. **Make sure the clamps are correctly connected.**
2. Press and hold the  button for 5 seconds. When the display shows **JUMP START READY**, the jump starter is ready for use.

WARNING! This overrides a safety feature. It will energize the clamps and cause sparking if they are touched together. If the clamp connections are reversed, damage to the unit, battery and possibly the car's electrical system will occur.

8.3 POWERING A 12V DC DEVICE (up to 6A)

The Fuel Pack is a power source for most DC accessories that are equipped with a 12V accessory plug.

NOTE: Charging while operating a DC device (light, USB, memory saver) will extend run time, but will also extend recharge time. If the load exceeds 1A, it will discharge the battery.



1. Make sure the device to be powered is OFF before inserting the 12V DC accessory plug into the 12V DC outlet.
2. Plug the 12V port adaptor into the unit's 12V output port.
3. Plug your device into the 12V adaptor port and turn on the device (if required).
4. Press the  button on the unit, twice.
5. When finished, turn off the DC device (if required) and disconnect the device. Press any button, to turn on the display.

Then press the  button, to turn off the 12V function.

6. Recharge the Fuel Pack immediately after unplugging the device.



8.4 USING THE USB PORT

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

1. Press the  button on the unit.
2. Plug the USB connector into the USB port of the unit.
3. Plug the other (micro) end of the adaptor into your device. Turn device on, if necessary.
4. When finished using the USB port, turn off the device (if necessary) and unplug the device. Press any button, to turn on the display. Then press the  button twice, to turn off the USB function.
5. Recharge the unit.

NOTE: The USB power will automatically turn off if not used for 10 minutes.

8.5 USING THE LED LIGHT

1. Press the  button:
 - **once** – for steady light
 - **twice** – for a flashing light
2. When finished using the light, press the  button again, to turn off the light.

9. DISPLAY MESSAGES

Messages during recharge:

CHARGING - xx% (Green LED lit) – Plugged into the AC or DC charger and internal battery is recharging .

FULLY CHARGED (Green LED pulsing) – Plugged into the AC outlet and internal battery is completely charged.

BATTERY TOO HOT TO CHARGE – Remove charger and allow battery to cool down before recharging.

BATTERY TOO COLD TO CHARGE – The temperature of the internal battery is too low.

CHARGING-USB ON – The USB function is in use while the internal battery is recharging.

CHARGING-12V ON – The 12V function is in use while the internal battery is recharging.

FULLY CHARGED-USB ON – The internal battery is fully charged and the USB is in use.

FULLY CHARGED-12V ON – The internal battery is fully charged and the 12V port is in use.

UNPLUG CHARGER – Attempting to use the jump starter while the unit is recharging.

CHARGE ABORTED-SEE MANUAL – Charging cannot be completed normally.

Messages during use of 12V/USB:

USB ON-BATTERY xxx% – The USB port is in use. The % shows the battery's charge.

12V ON-BATTERY xxx% – The 12V port is in use.

USB/12V OVER LOAD – The 12V/USB port is overloaded.

8.6 USING A MEMORY SAVER (not included).

The unit can be used with a memory saver to save the vehicle's on-board diagnostic computer settings (radio programs, diagnostic codes, etc.) while the battery is disconnected from the vehicle during repair or maintenance. We recommend the SECF-12V-OBDD or OBD-L memory savers.

BATTERY LOW-RECHARGE – While using the 12V/USB, the battery voltage has dropped. The 12V/USB power will shut off after 10 minutes.

Messages during use of jump starter:

xx.xV – Clamps are connected to a car battery, but jump start button was not pressed.

CONNECT CLAMPS-BATTERY xxx% – Unit is turned on, but does not detect battery clamps.

WARNING-CLAMPS REVERSED

(alarm sounds) – The clamps are connected backwards to a battery.

BATTERY LOW-RECHARGE – The jump start button has been pressed, and the internal battery is discharged (will beep).

TURN OFF USB/12V – Attempting to jump start when 12V/USB function is activated.

OFF – The jump start button has been pressed twice.

BATTERY TOO HOT – The internal temperature of the battery is too warm. Allow battery to cool down before attempting another jump start.

JUMP START READY-BATTERY COLD REDUCED PERFORMANCE – The temperature of the internal battery is too low, which reduces cranking performance.

JUMP START READY – The jump start button has been pressed, unit is correctly connected to a car battery, and the unit is ready for jump start.

10 – Maximum 10-second-down counter for engine start.

BATTERY COOL DOWN xx SEC

REMAINING – Shows waiting time needed before attempting another engine start.

10. MAINTENANCE INSTRUCTIONS

10.1 After use and before performing maintenance, unplug and disconnect the unit.

10.2 Use a dry cloth to wipe all battery corrosion and other dirt or oil from the battery clamps, cords, and the outer case.

10.3 Do not open the unit, as there are no user-serviceable parts; any servicing should be performed by qualified service personnel.

11. STORAGE INSTRUCTIONS

11.1 Charge battery to full capacity before storage.

11.2 Store this unit at temperatures between -4°F–+104°F (-20°C–+40°C).

11.3 Never completely discharge the battery.

11.4 Charge after each use.

11.5 Charge at least once every 3 to 6 months if not in frequent use, to prevent over-discharge.

12. TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	REASON/SOLUTION
When recharging the unit, the display shows BATTERY TOO HOT TO CHARGE or When jump starting, the display shows BATTERY TOO HOT.	When the internal temperature is too warm, the unit will not recharge (or jump start), to protect itself from damage.	Disconnect unit. Move the unit to a cooler, well-ventilated location and allow it to cool down before attempting to recharge (or jump start).
When recharging the unit, the display shows BATTERY TOO COLD TO CHARGE.	The internal battery's temperature is too low.	Disconnect unit. Move the unit to a warmer, well-ventilated location and allow it to warm up before attempting to recharge.
Alarm is sounding and display shows WARNING-CLAMPS REVERSED.	Connections are reversed.	Disconnect the unit and reverse the clamps.
The unit won't jump start my car.	Clamps are not making a good connection to the battery. The internal battery is not charged. The temperature of the internal battery is above 131°F (55°C). The vehicle's battery voltage is over 15V. The vehicle's battery voltage is below 1V. The outside temperature is less than 14°F (-10°C). The vehicle's battery is defective.	Check for poor connection to battery and frame. Make sure connection points are clean. Check the battery charge status and recharge, if necessary. Place the unit in a well-ventilated area, to cool the battery. You cannot use this jump starter for this vehicle. Press and hold jump start button for 5 seconds, until display shows JUMP START READY. Try starting several times. If not successful, place the unit in a warmer area for a short time. Have the battery checked.
The unit won't power my 12V or USB device.	The device is not turned on. The internal battery is not charged.	Turn on the device. Check the battery charge status and recharge, if necessary.
The display shows JUMP START READY-BATTERY COLD REDUCED PERFORMANCE.	The temperature of the jump starter's internal battery is too low.	Turn on the headlights or try to jump start a few times, to warm up the internal battery of the jump starter.

PROBLEM	POSSIBLE CAUSE	REASON/SOLUTION
Beeping sound and display shows BATTERY LOW-RECHARGE.	The internal battery was discharged, when using the 12V/USB function. The internal battery was discharged, when using the jump starter.	If battery is not recharged, 12V/USB will shut off after 10 minutes. Recharge the internal battery.
The green LED is flashing and the display shows CHARGE ABORTED-SEE MANUAL.	Charging has aborted. The battery is not accepting a charge.	Reset the charger by briefly unplugging the unit. If problem persists, call customer service.

13. BEFORE RETURNING FOR REPAIRS

If these solutions do not eliminate the problem, or for more information about troubleshooting, contact customer service for assistance:

services@schumacherelectric.com
www.batterychargers.com
or call 1-800-621-5485
Monday-Friday 7:00AM to 5:00PM CST

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.

14. SPECIFICATIONS

Internal battery type	Lithium Iron Phosphate (Lithium Ion)
Chargers	100V~120V AC wall charger 12V DC car charger
12V DC power output.....	6A
USB output.....	5V DC, 2A
Jump start	400A peak/270A cranking
Light	1W/90 Lm
Overload protection.....	Yes

15. REPLACEMENT PARTS/ACCESSORIES

USB/Micro USB adaptor	3899003378
12V DC car charger	2299002681
AC wall charger.....	93026927
12V DC port adaptor.....	3899003396
Case.....	5899000011

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 jump starter 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.

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