



Schumacher SPR1631 Jump Starter and Power Source Owner's Manual

[Home](#) » [Schumacher](#) » Schumacher SPR1631 Jump Starter and Power Source Owner's Manual 

Jump Starter and Power Source OWNERS MANUAL

PLEASE SAVE THIS OWNER'S MANUAL AND READ IT 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.

FOR MODELS, BE01255, FR01337, SJ1289, SPR1631



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.

Contents

- [1 IMPORTANT SAFETY INSTRUCTIONS](#)
- [2 PERSONAL PRECAUTIONS](#)
- [3 FEATURES](#)
- [4 CHARGING THE INTERNAL BATTERY OF THE PORTABLE POWER](#)
- [5 MAINTENANCE AND CARE](#)
- [6 TROUBLESHOOTING](#)
- [7 ACCESSORIES](#)
- [8 REPLACEMENT PARTS](#)
- [9 BEFORE RETURNING FOR REPAIRS](#)
- [10 LIMITED WARRANTY](#)
- [11 Documents / Resources](#)
 - [11.1 References](#)
- [12 Related Posts](#)

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 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 the battery. Review cautionary markings on these products and on the engine.

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 your eyes while working near the battery.
- 2.4 If battery acid contacts skin or clothing, wash immediately with soap and water. If acid enters the 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 the vicinity of the battery or engine.
- 2.6 Be extra cautious to reduce the risk of dropping a metal tool onto the battery. It might spark or short-circuit battery or another electrical part that may cause an explosion.

For the manual in Spanish, visit www.batterychargers.com or call 1-800-621-5485.





Para obtener el manual en español, visite www.batterychargers.com o llame al 1-800-621-5485.

- 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 an 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 Restrictions on Use: This jump starter/converter may not be used with life support devices or systems. Failure of this converter can reasonably be expected to cause the failure of that life support device or system, or to affect the safety or effectiveness of that device or system.

FEATURES



<div>1. USB ports optimized for Android™ (2)</div> <div>2. Pressure decrease (–) button</div> <div>3. Pressure increase (+) button</div> <div>4. Set the pressure button</div> <div>5. Compressor mode button</div> <div>6. Flex light</div> <div>7. Digital display</div> <div>8. Display LED indicators</div> <div>9.  Converter button</div>	<div>10.  USB button</div> <div>11.  Battery % button</div> <div>12.  Flex light ON/OFF button</div> <div>13. USB ports optimized for Apple (C)</div> <div>14. Cables with clamps</div> <div>15. 110V AC household power outlet</div> <div>16. Jump starter ON/OFF switch</div> <div>17. 12V DC power outlet</div> <div>18. Air compressor hose</div> <div>19. Adapters</div>
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Android™ is a trademark of Google Inc. Apple® is a registered trademark of Apple Inc.

CHARGING THE INTERNAL BATTERY OF THE PORTABLE POWER

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

4.1 CHECKING THE LEVEL OF THE INTERNAL BATTERY

To check the internal battery's charge status, press the Battery % button. The Digital Display will show the battery's percent of charge. Charge the internal battery if the display shows it is under 100%.

NOTE: The internal battery's percent of the charge is most accurate when the jump starter has been disconnected from all devices and charging sources for a few hours.

4.2 CHARGING THE INTERNAL BATTERY

Charge the internal battery for the portable power 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 marching dashes will show on the digital display. When the internal battery is fully charged, the display will show a smaller, pulsing “100” (for energy efficiency). Complete charging may take up to 72 hours.
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 Battery % 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.

4.3 CHARGING THE INTERNAL BATTERY WHILE DRIVING

You may also charge the internal battery while driving, using a 12V port charging cable (part number 94500109 – not included).

IMPORTANT: WHEN USING A 12V PORT CHARGING CABLE, DO NOT CHARGE THE 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).

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

1. Monitor the progress of the charge by pressing the Battery % button. When the battery is fully charged, disconnect the accessory cable from the Portable Power, then from the lighter socket of the vehicle.

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

5. USING THE PORTABLE POWER

5.1 DIGITAL DISPLAY

To check the jump starter's internal battery status, press the Battery % button. The display will show the percent of charge of the internal battery. When connected to the vehicle with the JumpStart On/Off switch in the OFF position, the display shows the vehicle's battery voltage. When connected and in the ON position, the display shows the equalized voltage between the vehicle's battery and internal battery.

5.2 JUMP-STARTING A VEHICLE

IMPORTANT: Using the Jump 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 portable power'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 portable power'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.

IMPORTANT: If you have connected the clamps backward, an audio alarm will sound. DO NOT turn the On/Off switch to the ON position. This could cause serious damage to the jump starter or the vehicle.

Reverse the connections and the audio alarm will stop.

5. Turn the switch to the ON position.
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 and remove the portable power from the battery.
8. Charge the portable power.

5.3 USING THE WORK/EMERGENCY FLEX LIGHT

1. Position the jump starter on a flat, stable surface near the intended work area.
2. Ensure that the battery clamps are securely clipped on the storage holders.
3. Remove the flexible work light from the storage clip on the side of the unit. Point the light in the desired direction.

NOTE: Do not use the flex light to lift the unit.

4. Press the light button once. The jump starter light will turn on and illuminate your work area.
5. Press the light button again. The light will flash.
6. When finished, press the light button again, to turn off the light.
7. Return the flex light to the storage clip after use.
8. Charge the jump starter as soon as possible after using the flex light.

NOTE: The flex light will automatically shut off after 24 hours.

5.4 USING THE USB PORTS

NOTE: The 2 left ports are optimized for Android™ devices. The 2 right ports are optimized for Apple® devices. The USB ports provide up to 2A per side (4A total) at 5V DC.

1. Ensure that the battery clamps are securely clipped on the storage holders.
2. Plug the device into one of the four USB ports on the front panel.
3. Press the USB port ON/OFF button.
4. Turn on the USB device.
5. When you are finished using the USB port, press the button, to turn it off.
6. Charge the jump starter as soon as possible after using the USB port.

NOTE: To protect your electronic devices, the USB will automatically shut off when the internal battery's voltage is low.

5.5 POWERING A 12V DC DEVICE

The portable power 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 portable power 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. Ensure that the battery clamps are securely clipped on the storage holders.
3. Open the protective cover of the DC power outlet on the portable power.
4. Plug the 12V DC device into the DC power outlet and turn on the 12V DC device (if required).
5. When finished, turn off the DC device (if required) and unplug from the DC power outlet.

CAUTION: Do not use the portable power to run appliances that draw more than 20A DC.

NOTE: Extended operation of a 12V DC device may result in excessive battery drain. Recharge the portable power immediately after unplugging the 12V DC device.

12V DC ESTIMATED RUN-TIMES

APPLIANCE TYPE	EST WATTAGE	ESTIMATED RUN TIME
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 hrs
Car vacuum, air compressor	80 watts	2.7 hrs

NOTE: Actual time may vary. Times are based on a fully charged internal battery.

5.6 USING THE AIR COMPRESSOR

WARNING. Read the instructions of the product to be inflated before using the compressor. Avoid overinflation; do not exceed the manufacturer's recommended pressures. Do not leave the air compressor unattended during use.

1. Remove the air compressor hose from the storage compartment in the back of the portable power.
2. Connect the adapter to the valve stem by threading it onto the end. If necessary, use one of the additional adapters.
3. Press the Compressor button.
4. To select the desired PSI, press the "+" or "-" buttons. When done, press the SET button.
5. When the desired pressure is reached, the compressor will turn off. Unthread the connector from the valve stem.
6. Press the Compressor button again, to turn off the display and LEDs.

7. Do not run for more than 10 minutes at a time. Allow the jump starter to cool down for 10 minutes before using it again.
8. When finished, return the air compressor hose to the storage compartment at the back of the unit.
9. Allow the unit to cool.
10. Recharge the unit before storing.

NOTE: To prevent overheating, the compressor has built-in thermal protection that will turn the compressor off before it overheats. If the compressor shuts off, wait a few minutes and it will automatically restart when the compressor cools.

NOTE: When not in use, the compressor will automatically shut off after 2 minutes.

NOTE: The air compressor is rated for 100 PSI maximum.

ESTIMATED TIME FOR INFLATING

Vehicle Tires 13"-16"	6-24 minutes
Bike Tires	1-3 minutes
Sports Balls	30 seconds

Times are approximate. Use the air compressor gauge to ensure the proper pressure has been reached. Do not overinflate.

5.7 BEFORE USING THE CONVERTER

Important Safety Instructions:

1. Keep the portable power well ventilated, in order to properly disperse heat generated while it is in use.
Make sure there are several inches of clearance around the top and sides, and do not block the vents on the back of the portable power.
2. Make sure the portable power is not close to any potential source of flammable fumes or clothing.
3. Keep the portable power dry.
4. DO NOT allow the portable power to come into contact with rain or moisture.
5. DO NOT operate the portable power if you, the portable power, the device being operated or any other surfaces that may come in contact with any power source are wet. Water and many other liquids can conduct electricity, which may lead to serious injury or death.
6. Do not place the portable power on or near heating vents, radiators or other sources of heat.
7. Do not place the portable power in direct sunlight. The ideal air temperature for operation is between 50° and 80° F.
8. Do not use the converter near an open engine compartment where fumes may accumulate.
9. Do not modify the AC receptacle in any way.

5.8 USING THE CONVERTER

It is important to know the continuous wattage of the device you plan to use with the converter. The portable power must be used with devices drawing 200 watts or less. If the wattage is not marked on the device, use only devices that draw less than 1.7 amps of AC current.

Devices like TVs, fans, or electric motors require additional power to start (commonly known as the "starting or peak power"). The portable power can supply a momentary surge in wattage; however, even devices rated less

than the maximum 200 watts can exceed the converter's surge capability and cause an automatic overload shutdown.

Do not use the converter with a product that draws a higher wattage than the converter can provide, as this may cause damage to the converter and the product.

Make sure the device you are using is compatible with a modified sine wave converter.

CAUTION: Always run a test to establish whether the converter will operate a particular piece of equipment or device.

In the event of a power overload, the converter is designed to automatically shut down. This safety feature prevents damaging the converter while testing devices and equipment with the 200-watt range.

IMPORTANT: If you are using the power converter to operate any type of battery charger, monitor the temperature of the battery charger for about 10 minutes. If the battery charger becomes abnormally warm, disconnect it from the converter immediately.

You can use an extension cord from the converter to the device without significantly decreasing the power being generated by the converter. For best-operating results, the extension cord should be 16 AWG (1.31 mm²) or larger and no longer than 50 feet.

IMPORTANT: This converter uses a modified sine waveform, which is not quite the same as power company electricity. For the following devices, we strongly recommend that you use caution and check the device's manual to make sure it is compatible with the modified sine waveform.

1. Switch-mode power supplies
2. Linear power supplies
3. Class 2 transformers
4. Line filter capacitors
5. Shaded pole motors
6. Fan motors
7. Fluorescent and high-intensity lamps (with a ballast)
8. Transformerless battery chargers

Using the converter with any of these devices may cause the device to run warmer or overheat.

5.9 POWERING A 110V AC DEVICE

1. Ensure the battery clips are securely on the storage holders.
2. Open the protective cover of the AC power outlet on the front panel of the portable power.
3. Make sure the 110V AC device to be operated is turned OFF.
4. Plug the 110V AC device into the AC power outlet and press the Converter button.
5. Turn the device on.
6. Charge the portable power as soon as possible after each use.

WARNING: RISK OF ELECTRIC SHOCK.

Incorrect operation of your converter may result in damage and personal injury. The converter output is 110V AC and can shock or electrocute the same as any ordinary household AC wall outlet.

NOTE: The maximum continuous load is 200 watts. Do not use the converter with a product that draws more than 200 watts, as this may cause damage to the converter and the product.

MAINTENANCE AND CARE

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

TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	SOLUTION
The portable power won't jump-start my car.	Clamps are not making a good connection to the battery. Connections are reversed. The portable power battery is not charged. The vehicle's battery is defective. The portable power is not turned on.	Check for poor connection to battery and frame. Make sure connection points are clean. Disconnect the portable power and reverse the clamps. Press the Battery Status button on the front of the unit. The LEDs will indicate the status of charge. Have the battery checked. Turn the portable power ON/OFF switch to the ON position.
The portable power won't power my 12V device.	The 12V device is not turned on. The portable power battery is not charged. The 12V device draws more than 20A or has a short circuit.	Turn on the 12V device. Check the battery charge status by pressing the Battery Status button. Disconnect the 12V device. The internal 20A fuse needs replacement by a qualified service person.
The battery in the portable power won't hold a charge.	The battery is bad (will not accept a charge).	Have the battery checked.
The compressor shuts off.	The compressor is overheated.	Allow to cool for a few minutes, then try again.
The portable power's alarm is on.	Connections are reversed.	Disconnect the jump starter and reverse the clamps.
The converter is on, but the display only shows Err.	The jump starter battery is not fully charged. The device is drawing more than 200 W or has a short circuit.	Recharge the unit. Use only devices that draw less than 1.7 amps of AC current

ACCESSORIES

12V port charging cable
94500109

REPLACEMENT PARTS

Air compressor accessory kit (3 hose adapters with bag) 2299001425Z
 Battery clamp replacement kit –
 includes (1) red/positive clamp and (1) black/negative clamp2299002837Z

BEFORE RETURNING FOR REPAIRS

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

LIMITED WARRANTY

Go to batterychargers.com to register your product online.

SCHUMACHER ELECTRIC CORPORATION, 14200 FAA BLVD., FORT WORTH, TX 76155, 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 portable power for one (1) 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, the 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 is 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 the 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, the 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 an 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.

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Documents / Resources

	<p>Schumacher SPR1631 Jump Starter and Power Source [pdf] Owner's Manual BE01255, FR01337, SJ1289, SPR1631, SPR1631 Jump Starter and Power Source, Jump Starter and Power Source</p>
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References

-  [** 365RMA.COM **](#)
-  [Home Page - Schumacher Electric](#)
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