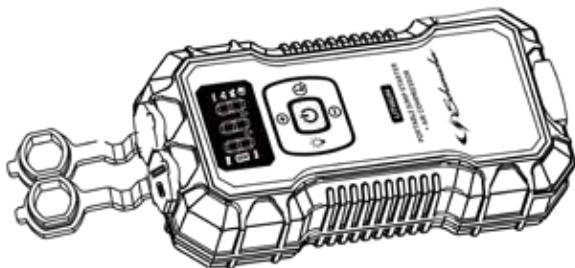




SL1686

Portable Jump Starter + Air Compressor



0099002551-05

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

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

1. INTRODUCTION

Thank you for purchasing the Schumacher Electric Portable Jump Starter + Air Compressor. This item is a lithium-powered tool with capabilities including jump starting vehicles, charging devices, providing illumination, and inflating tires, making it perfect for outdoor adventures.

2. IMPORTANT SAFETY INSTRUCTIONS – SAVE THESE 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.

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

- 2.1 SAVE THESE INSTRUCTIONS** – This manual contains important safety and operating instructions.
- 2.2** Read all the instructions before using the product.
- 2.3** To reduce the risk of injury, close supervision is necessary when the product is used near children.
- 2.4** Do not put fingers or hands into the product.
- 2.5** Use of an attachment not recommended or sold by power pack manufacturer may result in a risk of fire, electric shock, or injury to persons.
- 2.6** 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.
- 2.7** Do not operate the portable jump starter + air compressor with a damaged cord or plug, or a damaged output cable.
- 2.8** Do not disassemble the portable jump starter + air compressor, 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.
- 2.9** To reduce the risk of electric shock, unplug the portable jump starter + air compressor from the outlet before attempting any instructed servicing.
- 2.10** When in use, steps should be taken to reduce the exposure to rain, sleet, snow, and the like.
- 2.11** Connecting the red positive pole (+) and the black negative pole (-) is prohibited, as it may cause a short circuit in the jump starter.

- 2.12 To reduce risk of damage to the electric plug and cord, pull the plug rather than the cord when disconnecting the portable jump starter + air compressor.
- 2.13 Temporary outdoor use of equipment is allowed if these instructions are followed:
 - a. The device shall be stored indoors and protected from the elements;
 - b. The device shall not be charged outdoors;
 - c. When in use outdoors, steps should be taken to reduce the exposure to rain, sleet, snow, and the like.

3. PERSONAL SAFETY PRECAUTIONS

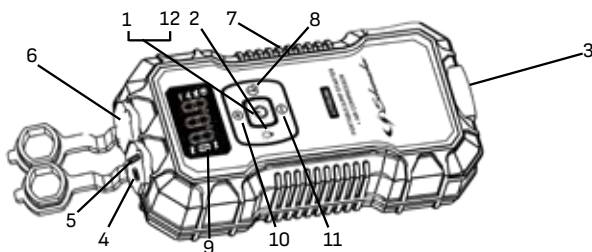
- 3.1 Consider having someone close by to come to your aid when you work near a lead-acid battery.
- 3.2 Have plenty of fresh water and soap nearby in case battery acid contacts skin, clothing, or eyes.
- 3.3 Wear complete eye protection and clothing protection. Avoid touching eyes while working near battery.
- 3.4 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.
- 3.5 NEVER smoke or allow a spark or flame in vicinity of battery or engine.
- 3.6 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.
- 3.7 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.
- 3.8 NEVER jump start a frozen battery.
- 3.9 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.
- 3.10 Do not expose the portable jump starter + air compressor to fire or excessive temperature. Exposure to fire or temperature above 130°C/265°F may cause explosion.
- 3.11 Have servicing performed by a qualified repair person using only identical replacement parts. This will ensure that the safety of the product is maintained.
- 3.12 Attach output cables to a battery and chassis as indicated in section 7. Never allow the output clamps to touch one another.
- 3.13 This device is not intended for use in a commercial repair facility.

4. FCC STATEMENTS

- 4.1 Changes or modifications not expressly approved by Schumacher Electric Corporation could void the user's authority to operate this device.
- 4.2 **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:
 - a. Reorient or relocate the receiving antenna.
 - b. Increase the separation between the equipment and receiver.
 - c. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

d. Consult the dealer or an experienced radio/TV technician for help.

5. FEATURES

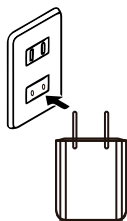


Feature	Function
1. Power Button	Long press to turn on the device
2. LED Light Button	Press the LED Light button to turn on the light or change lighting modes
3. Air Compressor Input	Air enters the air compressor here
4. USB-C Input/Output	Use to recharge the portable jump starter + air compressor or recharge devices
5. USB-A Output:	Use to recharge devices
6. Jump Starter Port	Connect the clamp assembly here
7. Air Compressor Port	Connect the air compressor hose here
8. Pressure Unit Button	Press to change pressure units (PSI, BAR, KPA)
9. LED Display	Displays the battery status, air pressure, and inflation modes
10. + Pressure Button	Increase air pressure setting
11. - Pressure Button	Decrease air pressure setting
12. Air Compressor Button	To use the air compressor, long press the Power Button, then press the Power Button again to activate the air compressor

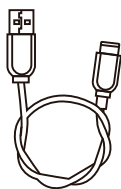
6. CHARGING THE BATTERY

- 6.1 Use an 18W USB charging adapter to quickly recharge the jump starter. Using a charger smaller than 18W will increase charge time.
- 6.2 Plug the USB end of the charging cable into the portable jump starter + air compressor's charging port. Next, plug the USB end of the charging cable into a wall adaptor's USB port.
- 6.3 Plug the charger into a power outlet.
- 6.4 The approximate time to fully charge the jump starter (with an 18W charger) is 2 to 2.5 hours.
- 6.5 When the battery is fully charged, the LED display will turn off after 15 seconds. Tap the button to activate the display.

- 6.6 When the battery is fully charged, disconnect the charger from the outlet, and then remove the charging cable from the charger and the unit.



AC Adapter
(not included)



USB-C Cable



USB-C Input

7. OPERATING INSTRUCTIONS

WARNING: RISK OF ELECTRIC SHOCK, FIRE, OR EXPLOSIVE GASES

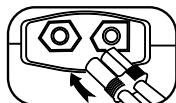
Jump Starting a Vehicle

This unit is designed for jump starting 12V car batteries only.

- 7.1 Do not attempt to jump start vehicles with a higher battery rating or different voltage.
- 7.2 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 7.3. If the positive post is grounded to the chassis, see step 7.5.
- 7.3 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.
- 7.4 For a positive-ground 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.
- 7.5 When finished using the jump starter, remove the clamp from the vehicle chassis and then remove the clamp from the battery terminal. Disconnect the clamps from the unit.
- 7.6 If the vehicle does not start immediately, please wait for 1 minute to allow device to cool down.
- 7.7 **Note:** Do not try to restart the vehicle after three consecutive attempts as this may damage the unit. Check your vehicle for other possible reasons why it cannot be restarted.

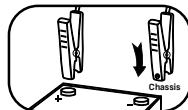
First Step:

Long-press the power button to turn the jump starter on, check the battery level shown on the LED display, and then plug the jumper cable assembly into jump starter port.



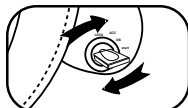
Second Step:

Connect the clamps to car battery. Connect the red clamp to the positive (+) battery post and connect the black clamp to the negative (-) battery post.



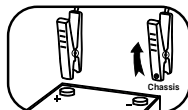
Third Step:

Crank the engine.



Fourth Step:

Unplug the jumper cable assembly from the main unit and then remove the clamps from the car battery.



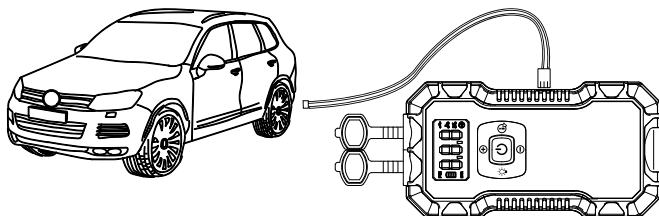
Attention: If the unit fails to start and the intelligent jumper cable assembly enters protection mode, remove the clamps, unplug the jumper cable assembly from the jump starter port, and then return to the first step of the jump starting process.

Note: Recharge the portable jump starter + air compressor as soon as possible after each use.

Using the Air Compressor

First Step:

Firmly connect the air compressor hose to both the air compressor port on the unit and the tire air valve. Then press the handle to secure the air compressor hose in place.



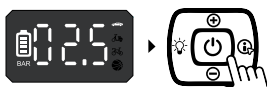
Second Step:

Long-press the Power button to turn the unit on, check the battery level displayed on the LED screen, and then short press the Power button once to enter air compressor mode. You can press the Pressure Unit button to switch between BAR, KPA, and PSI pressure units. Additionally, the portable jump starter + air compressor offers modes for five different applications: Car mode, Motorcycle mode, Bicycle mode, Basketball mode, and Customized mode. You can select the mode that best meets your needs or press the + Positive Pressure and - Negative Pressure buttons to adjust pressure values.



Third Step:

After choosing the correct pressure setting, press the power button to start the air compressor. The actual tire pressure will be displayed.



Fourth Step:

When the air compressor reaches the preset value, the unit will automatically stop inflating. You can turn off operation by pressing the power button.

CAUTION: HOT SURFACE

After using the air compressor, **the nozzle and hose will remain HOT. DO NOT touch or disconnect them immediately.** Wait a few minutes to cool down before handling to avoid burns.

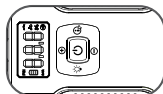
CAUTION: After 8 minutes of continuous work, please let the equipment rest for 10 minutes to prevent overheating danger.

Charging a Mobile Phone or USB Device

The unit includes two USB output ports. One port is USB-A and the other is USB-C, which delivers up to 5V at 2.4A, 9V at 2A, or 12V at 1.5A. If using both USB-A and USB-C ports at the same time, they will deliver up to 5V at 2.2A max. to each port.

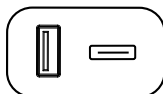
First Step:

Long-press the power button to turn the jump starter on and then check the battery level shown on the LED display.



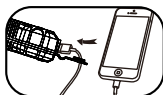
Second Step:

Plug the USB-A to USB-C charging cable into the USB port on the portable jump starter + air compressor.



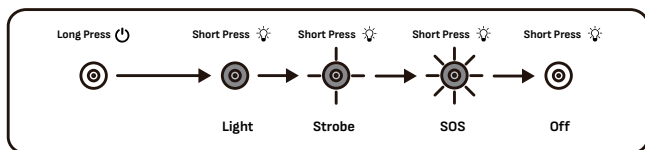
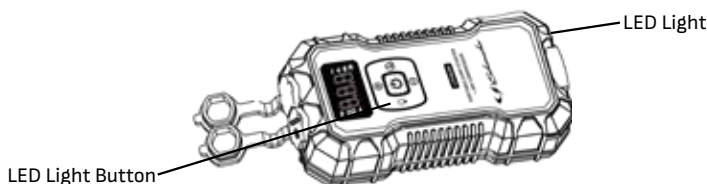
Third Step:

Plug the other side of the charging cable into the charging port on your device.



USING THE LED LIGHT

Long press the Power button to turn on the portable jump starter + air compressor. Then, short press the LED Light button to turn on the light. The battery capacity indicator will light. Short press the light button again to cycle through the lighting modes. Short press again to turn off the light. The light offers more than 35 hours of continuous use when fully charged.



8. MAINTENANCE INSTRUCTIONS

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

- Use a dry cloth to wipe all battery corrosion and other dirt or oil from the battery clamps, cords, and the outer case.
- Do not open, modify, or attempt to repair the power pack. as there are no user-serviceable parts.

9. STORAGE INSTRUCTIONS

- The device shall be stored indoors and protected from the elements
- The unit shall not be charged outdoors. Charge battery to full capacity before storage.
- Store this unit at temperatures between -4° F and 113° F (-20 °C and 45 °C).
- Never completely discharge the battery, charge after each use, and charge at least once every month, if not in frequent use, to prevent over-discharge.

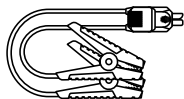
10. WHAT'S IN THE BOX



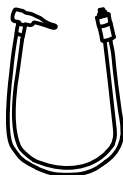
Jump Starter +
Air Compressor



Storage Bag



Smart Jumper Cable
Assembly



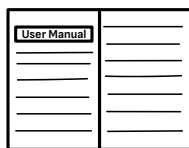
Air Compressor Hose



Valve Adapters (3)



USB-A to Type-C
Charging Cable



User Manual

11. SPECIFICATIONS

Model Number	SL1686
Jump Start Amperage	1800 peak amps
Internal Battery	Lithium Polymer, 37 Wh, 14.8V, 2,500mAh
USB-C Output	5V/2.4A, 9V/2A, 12V/1.5A; 18W max.; 6,571mAh
USB-C Input	5V/2A, 9V/2A

USB-A Output	5V/2.4A, 9V/2A, 12V/1.5A; 18W max.; 6,571mAh
USB-A + USB-C Output	5V/2.2A + 5V/2.2A
Recharging Time	2-5 hours
LED Light	3.2W
Air Compressor	Max. 150 PSI
Operating Temperature	5° F to 113° F (-15° C to 45° C)
Dimensions	8.448 in. (L) x 4.429 in. (W) x 2.16 (D) 214.6 mm (L) x 112.5 mm (W) x 54.9 mm (D)

12. TROUBLESHOOTING

Failure to Jump Start

- Insufficient power level. You may need to charge the jump starter. Keep the battery level above 60% to ensure a successful jump start.
- Bad connection caused by rust or dirt on battery terminals. Clean the terminals and try again.
- The jump starter activated overheating protection due to high temperatures in the battery. Try again after it cools down.
- The clamps are connected to the incorrect terminals. Reverse the connection to ensure the clamps are connected to the correct terminals.
- Poor connection between the smart clamps and the battery. Ensure the connection between the clamps and the battery is secure.

Failure to Charge

- Check the charging cable to ensure it is connected correctly.
- Check the outlet and ensure it is receiving power.
- The jump starter activated its overheating protection due to high temperatures in the battery. Allow it to cool down to room temperature before resuming charging.

Failure to Power On

- Insufficient power or the jump starter is charging.

13. ERRORS

Portable Jump Starter + Air Compressor		
Error	Cause	Solution
Automatic Shutdown	Short circuit protection	Please disconnect and turn off the portable jump starter + air compressor before restarting and trying again

Smart Jumper Cable Assembly LED and Alarm Behavior	
Behavior	Reason
Green Ready LED blinking; red Fault and Clamp Reverse LEDs off; no beep	Cable is connected to jump starter only
Green Ready LED solid; red Fault and Clamp Reverse LEDs off; no beep	Cable is connected correctly to both battery and jump starter
Red Fault and Clamp Reverse LEDs solid; green Ready LED off; rapid beeping	Reverse polarity protection

Smart Jumper Cable Assembly LED and Alarm Behavior	
Behavior	Reason
No LED illuminated; no beep	Battery exhausted or poor connection
Red Fault LED solid; green Ready and Red Clamp Reverse LEDs off; rapid beeping	Short circuit protection
Red Fault and green Ready LEDs solid; Red Clamp Reverse LED off; beeps once per second	Temperature protection

Note: When the condition is corrected, the smart cable will automatically reset.

14. FAQ

Q1: What should I do if the portable jump starter + air compressor cannot be charged?

A1: Try using another charging cable to charge the portable jump starter + air compressor. If it can charge with another cable, the original charging cable is defective.

Q2: How do you turn off the portable jump starter + air compressor?

A2: The portable jump starter + air compressor will turn off automatically in 30 seconds when it has no load.

Q3: How often does the portable jump starter + air compressor unit need to recharge?

A3: The portable jump starter + air compressor should be recharged every 3 months.

Q4: Can the portable jump starter + air compressor charge other USB devices while it is being recharged?

A4: Yes.

Q5: Can the portable jump starter + air compressor charge other devices while jump starting a vehicle or inflating?

A5: No.

15. LIMITED WARRANTY AND SERVICE

For repairs, returns, or information on our two-year limited warranty, please call 1-800-621-5485 or visit schumacherelectric.com.



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