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CARHEV JS-02

CARHEV 2500A 21800mAh Portable Car Jump Starter User Manual

Model: JS-02 | Brand: CARHEV

1. Introduction

Thank you for choosing the CARHEV Portable Car Jump Starter, Model JS-02. This device is designed to provide reliable jump-starting for various 12V vehicles and serve as a versatile power bank and emergency light source. Please read this manual thoroughly before use to ensure safe and optimal operation.

This jump starter features a peak current of 2500 Amps and a battery capacity of 21800 mAh, capable of starting vehicles with up to 8.0L gasoline or 8.0L diesel engines. It includes multiple safety protections and a durable, IP65-rated casing.

Image: The CARHEV Jump Starter with its smart jumper cables connected to a car battery, illustrating its primary function. The image highlights its 2500A peak current, 12V output, and compatibility with 8.0L gasoline and diesel engines.

2. Product Overview and Package Contents

Familiarize yourself with the components of your CARHEV Jump Starter and verify all items are present in the package.



Image: A detailed labeled diagram of the CARHEV Jump Starter, pointing out its key features such as the LED flashlight, power button, LCD screen, jump starter socket, 5V/2A output, 5V/2A input, 9V/2A QC3.0 output, and 12V/10A output.

Package Contents:

- CARHEV Jump Starter Unit
- Smart Jumper Cables
- Cigarette Lighter Adapter
- USB Cable
- EVA Storage Case
- User Manual



Image: An organized display of all items included in the CARHEV Jump Starter package: the jump starter unit, smart jumper cables, cigarette lighter adapter, USB cable, EVA storage case, and user manual.

3. Specifications

Model Number	JS-02
Peak Current	2500 Amps
Battery Capacity	21800 mAh
Battery Cell Composition	Lithium Polymer
Voltage	12 Volts
Engine Compatibility	Up to 8.0L Gasoline / 8.0L Diesel
Vehicle Service Type	Cars, SUVs, Trucks, Motorcycles, Boats, Lawnmowers, Snowmobiles, Pickup Trucks
USB Output 1	9V/2A (QC3.0)
USB Output 2	5V/2A
12V DC Output	12V/10A
Water Resistance	IP65
Operating Temperature	-20°C to 60°C (-4°F to 140°F)

Dimensions	19 x 8 x 3 cm
Weight	1.06 kg

4. Safety Information

Please read and understand all safety warnings before using this product. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Always wear eye protection and gloves when working with batteries.
- Do not jump start a frozen battery.
- Ensure the jump starter is fully charged before use.
- Do not connect the red and black clamps together.
- Do not immerse the product in water.
- Keep out of reach of children.
- Do not attempt to disassemble or modify the unit.
- Use only the provided smart jumper cables.
- The device features 10 intelligent safety protections, including short-circuit protection, reverse polarity protection, overvoltage protection, and spark-proof technology.
- The automatic temperature detection system allows safe operation in extreme temperatures (-20°C to 60°C).

5. Charging the Jump Starter

Before first use, fully charge the jump starter. It is recommended to recharge the unit every 3-6 months to maintain battery health, even if not used.

1. Connect the provided USB cable to the jump starter's input port (5V/2A IN).
2. Connect the other end of the USB cable to a USB wall adapter (not included) or a car charger.
3. The LCD screen will display the charging status. The unit is fully charged when the screen shows 100%.



Image: A close-up of the CARHEV Jump Starter's LCD screen displaying "100%", indicating a full charge. The screen also shows input/output indicators and a light icon.

6. Operating Instructions

6.1 Jump Starting a Vehicle

Ensure the jump starter is at least 50% charged before attempting to jump start a vehicle.

1. **Connect Jumper Cables:** Insert the blue plug of the smart jumper cables into the jump starter's 12V jump start socket. Ensure a secure connection.
2. **Connect to Car Battery:**
    - Connect the **RED** positive (+) clamp to the positive (+) terminal of the vehicle's battery.
    - Connect the **BLACK** negative (-) clamp to the negative (-) terminal of the vehicle's battery.

    The smart jumper cable indicator light will show green if the connection is correct. If it shows red or flashes, check the connections.
3. **Start the Vehicle:** Return to your vehicle and start the engine.
4. **Remove Cables:** Once the vehicle starts, immediately remove the smart jumper cables from the car battery, then disconnect the blue plug from the jump starter.

BOOST Function: If the vehicle battery voltage is extremely low (below 9V) and the jump starter does not automatically detect it, press the "BOOST" button on the smart jumper cable. This will force the jump starter to provide power. Use this function only when necessary and follow all safety precautions.



Image: A visual guide demonstrating the four steps to jump start a car: 1. Plug cables into the jump starter. 2. Connect clamps to the car battery (red to positive, black to negative). 3. Start the car engine. 4. Remove the smart jumper cables.

6.2 Using as a Power Bank

The CARHEV Jump Starter can charge various electronic devices.

- **USB Outputs:** Connect your USB-powered devices (phones, tablets, laptops, wearables) to the 9V/2A (QC3.0) or 5V/2A USB output ports using your device's charging cable.
- **12V/10A DC Output:** Use the 12V/10A port with the provided cigarette lighter adapter to power 12V DC equipment such as tire inflators or car vacuum cleaners.



Image: The CARHEV Jump Starter functioning as a power bank, simultaneously charging a smartphone and a tablet via its USB output ports. The LCD screen shows battery percentage and output status.

6.3 Using the LED Flashlight

The built-in LED flashlight offers three modes for various situations.

1. **Turn On/Off:** Press and hold the power button for 3 seconds to turn the flashlight on or off.
2. **Change Modes:** Briefly press the power button to cycle through the modes:
    - **Flashlight:** Steady illumination.
    - **Strobe:** Rapid flashing for signaling.
    - **SOS:** International Morse code signal for emergencies.



Image: The CARHEV Jump Starter's LED flashlight illuminated, with icons illustrating its three modes: standard flashlight, strobe light, and SOS signal, providing versatile lighting options.

7. Maintenance

Proper maintenance ensures the longevity and performance of your jump starter.

- **Storage:** Store the unit in a cool, dry place away from direct sunlight and extreme temperatures.
- **Recharging:** Recharge the jump starter every 3-6 months to prevent deep discharge and extend battery life.
- **Cleaning:** Wipe the unit with a soft, dry cloth. Do not use harsh chemicals or abrasive cleaners.
- **Cable Care:** Inspect jumper cables for any damage before each use. Replace if frayed or damaged.

8. Troubleshooting

If you encounter issues, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Vehicle does not start.	Jump starter battery is low; incorrect cable connection; vehicle battery is completely dead (below 9V).	Charge the jump starter; ensure clamps are connected correctly (red to +, black to -); use the BOOST function if the vehicle battery is extremely low.

Smart jumper cable indicator light is red or flashing.	Reverse polarity connection; short circuit; over-current.	Disconnect and reconnect clamps correctly; check for any short circuits; ensure vehicle engine size is within limits.
Jump starter not charging.	Faulty USB cable or adapter; input port damage.	Try a different USB cable and adapter; contact customer support if the issue persists.
Device not turning on.	Battery completely drained; internal fault.	Charge the device for several hours; if still unresponsive, contact customer support.

If the problem persists after trying these solutions, please contact CARHEV customer support.

9. Warranty and Support

The CARHEV Jump Starter comes with an 18-month worry-free warranty and lifetime technical support.

For any questions, technical assistance, or warranty claims, please contact CARHEV customer support. Our team is committed to responding within 24 hours.

Contact Information: Please refer to the contact details provided in your product packaging or on the official CARHEV website.

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