Andeman Ep155, Ep177

Andeman Ep155 & Ep177 Car Jump Starter with Air Compressor User Manual

Models: Ep155, Ep177

1. Introduction

This manual provides essential information for the safe and effective operation of your Andeman Ep155 or Ep177 Car Jump Starter with Air Compressor. Please read this manual thoroughly before using the device and retain it for future reference. This device is designed to jump start 12V vehicles and, for the Ep177 model, also functions as a portable tire inflator and power bank.

2. Safety Information

WARNING: Improper use can result in injury or damage to the device and vehicle. Always follow these safety guidelines.

- Keep out of reach of children.
- Do not immerse the device in water.
- Do not operate in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.
- Ensure proper ventilation during use.
- Do not disassemble the device. Contact qualified service personnel for repairs.
- Avoid direct exposure to sunlight or high temperatures.
- Use only the provided smart clamps and accessories.
- Ensure the device is fully charged before use for optimal performance.
- The device features 10 advanced safety protections, including Overload Protection, Sparks Protection, Reverse Charges Protection, Reverse Polarities Protection, Over Currents Protection, Low Temperature Protection, Over Charges Protection, and Short Circuits Protection.

Figure 2.1: The Andeman jump starter incorporates 10 safety protections for secure operation, including safeguards against overcharge, over-discharge, overcurrent, short circuit, overvoltage, reverse connection, over temperature, voltage regulation, reverse charge, and reverse polarity.

3. Product Overview and Components

Your Andeman Car Jump Starter is a multi-functional device designed for emergency vehicle starting, and for the Ep177 model, also includes a portable air compressor and power bank capabilities.

Figure 3.1: The Andeman jump starter unit shown with its smart battery clamps and various inflation nozzles for different applications.

Figure 3.2: This image highlights the dual functionality of the Ep177 model, serving as both a 4000A jump starter and a 150PSI tire inflator.

Package Contents:

- Andeman Car Jump Starter (Ep155 or Ep177)
- Smart Battery Clamps
- USB-C Charging Cable
- Inflation Nozzles (for Ep177 model)
- User Manual

4. Specifications

Feature	Ep155 Model	Ep177 Model
Peak Current	3000A	4000A
Battery Capacity	20000mAh	24000mAh
Engine Compatibility (Gas)	Up to 9.0L	Up to 8.5L
Engine Compatibility (Diesel)	Up to 7.0L	Up to 7.0L
Starts per Charge	Up to 80 times	Up to 70 times
Standby Time	24 months	48 months
Air Compressor (PSI)	N/A	Up to 150PSI
Charging Input (Type-C)	5V/3A, 9V/2A, 12V/1.5A	
USB-A Output	QC3.0	
USB-B Output	5V/3A	
DC Output	15V	
Full Charge Time	Approximately 1.8 hours	
LED Flashlight	240 Lumens, 36 hours battery life	

Figure 4.1: The Ep177 model, a 4000A jump starter, is suitable for various 12V vehicles, capable of starting 8.5L gas or 7L diesel engines.

5. Setup and Charging

5.1 Initial Charge

Before first use, fully charge the jump starter. Connect the provided USB-C charging cable to the device's Type-C input port and a suitable USB power adapter (not included). The device supports bi-directional fast charging, achieving a full charge from 0% to 100% in approximately 1.8 hours.

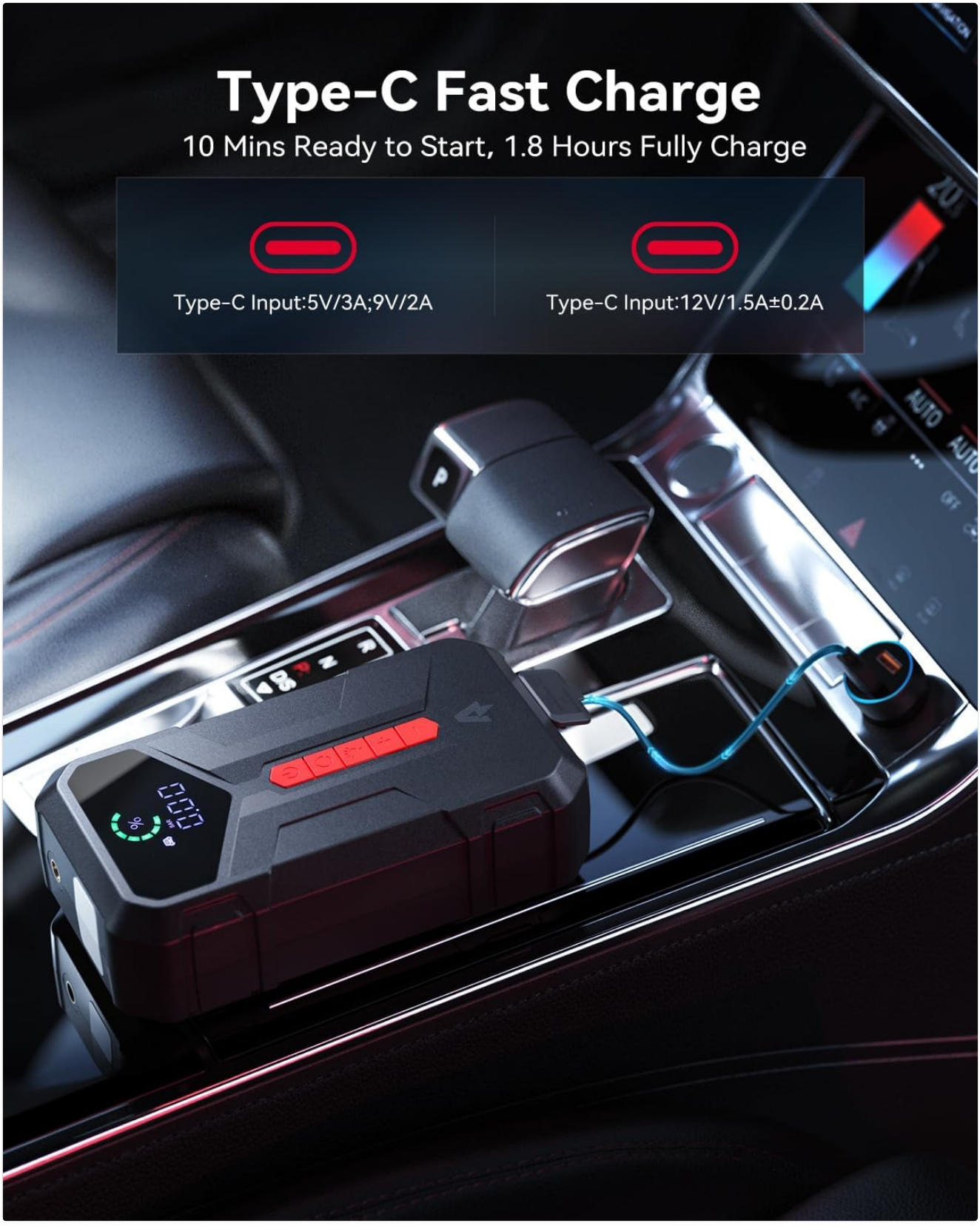

Figure 5.1: The jump starter can be fast-charged via its Type-C port, allowing for quick readiness. A 10-minute charge can provide enough power for a jump start.

5.2 Checking Battery Level

The device features a digital display or indicator lights to show the current battery level. Ensure the device has sufficient charge before attempting to jump start a vehicle or inflate tires.

6. Operating Instructions

6.1 Jump Starting a Vehicle

1. Ensure the jump starter is at least 50% charged.
2. Turn off the vehicle's ignition and all accessories.
3. Connect the **red** (+) clamp to the vehicle's positive (+) battery terminal.
4. Connect the **black** (-) clamp to the vehicle's negative (-) battery terminal or a solid, unpainted metal part of the engine block.
5. Plug the smart clamp connector into the jump starter's port. The indicator light on the smart clamp should turn green, indicating a correct connection. If it's red or flashing, check connections and battery voltage.
6. Start the vehicle. If it doesn't start immediately, wait 30 seconds before trying again. Do not crank for more than 3 seconds per attempt.
7. Once the vehicle starts, immediately disconnect the smart clamp connector from the jump starter.
8. Remove the black (-) clamp first, then the red (+) clamp from the vehicle battery.

6.2 Using the Air Compressor (Ep177 Model Only)

The Ep177 model features a built-in air compressor capable of delivering up to 150PSI.

1. Connect the air hose to the tire valve stem. Ensure a secure connection to prevent air leakage.
2. Power on the jump starter. The current tire pressure will be displayed.
3. Use the '+' and '-' buttons to set the desired pressure.
4. Press the inflation button to start the compressor. The compressor will automatically stop once the preset pressure is reached.
5. Disconnect the air hose from the tire valve.

Note: For continuous use, it is recommended to rest the compressor for 10 minutes after every 10 minutes of operation to prevent overheating. A full charge can inflate 195/60 R15 tires from 0 to full approximately 4-5 times.

Figure 6.1: The Ep177 model's digital display shows current pressure and allows setting target pressure for tire inflation. It can inflate various items including car, motorcycle, bicycle tires, and sports equipment.

6.3 Using as a Power Bank

The jump starter can also function as a portable power bank to charge electronic devices.

- Connect your device's charging cable to the appropriate output port on the jump starter (USB-A QC3.0, USB-B 5V/3A, or Type-C 5V/3A, 9V/2A, 12V/1.5A).
- The device will automatically begin charging.
- The DC15V output port can power compatible devices like tire inflators (if not using the built-in one) or car

refrigerators.

Figure 6.2: The 24000mAh capacity allows the jump starter to serve as a power bank, compatible with over 1000 devices, including laptops, smartwatches, and smartphones.

6.4 Using the LED Flashlight

The built-in 240 lumens LED flashlight offers multiple modes for various situations.

- Press the flashlight button once to turn on the steady light.
- Press again for SOS mode (flashing slowly).

- Press a third time for Strobe mode (flashing rapidly).
- Press a fourth time to turn off the flashlight.

The flashlight provides up to 36 hours of battery life.

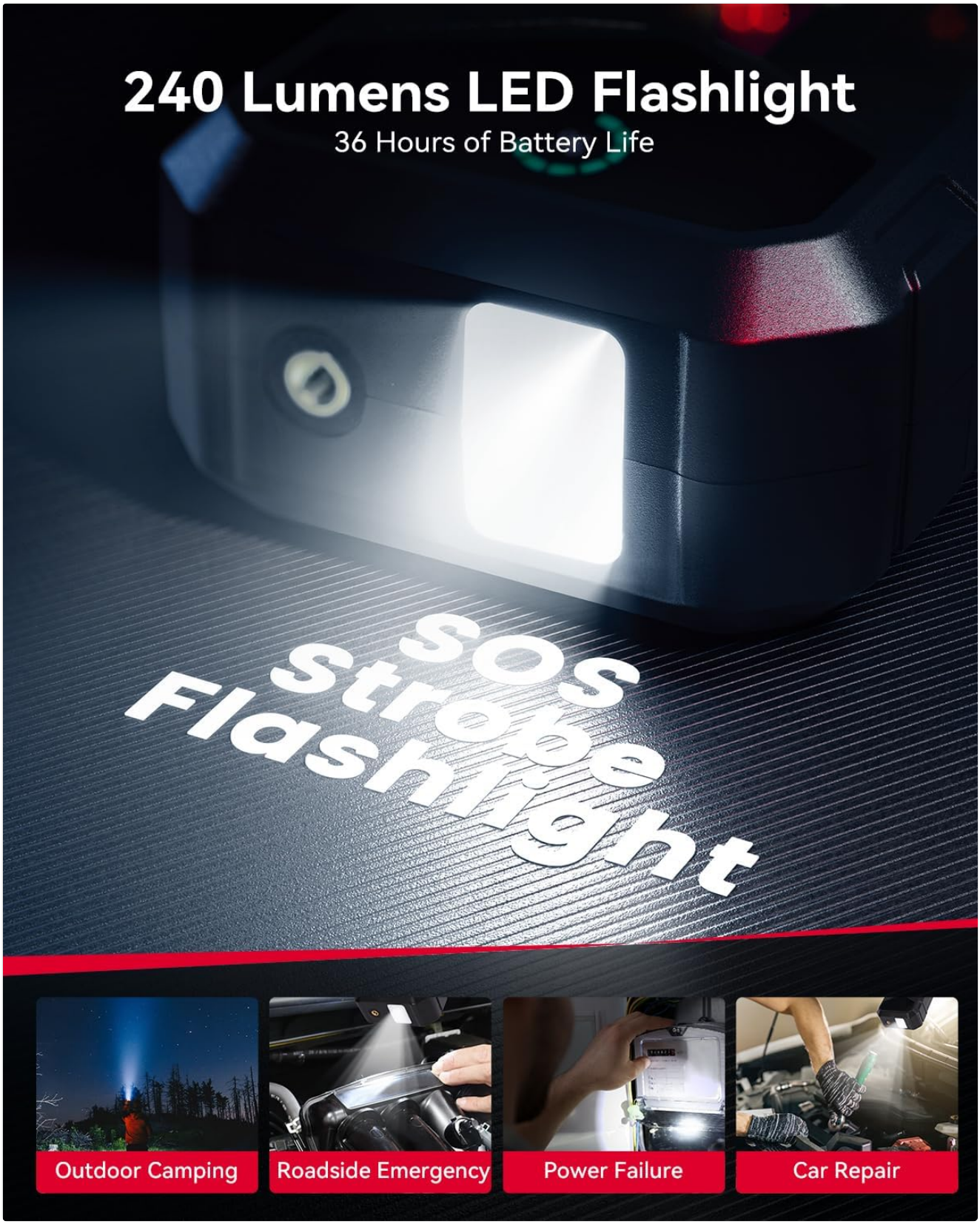

Figure 6.3: The 240 lumens LED flashlight provides illumination for outdoor camping, roadside emergencies, power failures, and car repair tasks.

7. Maintenance

7.1 Charging

To maintain optimal battery health, recharge the jump starter every 3-6 months, even if not in use. This prevents deep discharge and extends battery life.

7.2 Storage

- Store the device in a cool, dry place, away from direct sunlight and extreme temperatures.
- Keep the device and accessories in the provided carrying case to protect them from damage.

7.3 Cleaning

Wipe the device with a soft, dry cloth. Do not use harsh chemicals or abrasive cleaners.

8. Troubleshooting

8.1 Vehicle Does Not Start

- **Check battery level:** Ensure the jump starter has sufficient charge.
- **Check connections:** Verify that the smart clamps are securely connected to the correct battery terminals (red to positive, black to negative).
- **Smart clamp indicator:** If the indicator is red or flashing, refer to the smart clamp's instructions for error codes.
- **Vehicle battery condition:** If the vehicle battery is severely damaged or completely dead, the jump starter may not be able to start it.

8.2 Air Compressor Not Working (Ep177 Only)

- **Check battery level:** Ensure the jump starter has sufficient charge.
- **Hose connection:** Verify the air hose is securely connected to both the device and the tire valve.
- **Overheating:** If the compressor has been running for an extended period, it may have overheated. Allow it to cool down for 10-15 minutes before attempting to use it again.

8.3 Device Not Charging

- **Cable:** Ensure the USB-C charging cable is not damaged and is properly connected.
- **Power adapter:** Verify the USB power adapter is functional and provides adequate power output.

9. Warranty and Support

Your Andeman jump starter is UL Certified, ensuring it meets stringent safety standards. For warranty information, technical support, or service inquiries, please refer to the contact information provided with your purchase or visit the official Andeman website.
For further assistance, please contact Andeman customer support.