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› ANFLAG BD50 8-in-1 Car Jump Starter with Air Compressor User Manual

ANFLAG BD50

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Model: BD50

1. INTRODUCTION

The ANFLAG BD50 is a versatile 8-in-1 multi-functional device designed for automotive emergencies and outdoor activities. It combines a powerful car jump starter, a portable tire inflator, a power bank, and an emergency LED flashlight. This manual provides detailed instructions for the safe and effective use, maintenance, and troubleshooting of your ANFLAG BD50 device.



Figure 1.1: The ANFLAG BD50 8-in-1 Car Jump Starter with Air Compressor, showcasing its compact design and included accessories.

2. WHAT'S IN THE BOX

Upon opening the package, please verify that all the following components are included:

- 1 x ANFLAG BD50 Jump Starter with Air Compressor
- 1 x Heavy-Duty Jumper Cables
- 1 x USB-C Charging Cable
- 1 x Detachable Air Hose
- 3 x Gas Nozzles (for various inflation needs)
- 1 x Retractable Silicone Handle
- 1 x Instruction Manual (this document)
- 1 x EVA Storage Case

MORE THAN A JUMP STARTER

- 1 Jump Starter with Air Compressor
- 2 Heavy-Duty Jumper Cable
- 3 USB-C Charging Cable
- 4 Detachable Air Hose
- 5 3× Gas Nozzles
- 6 EVA Storage Case



Figure 2.1: All components included in the ANFLAG BD50 package, neatly organized within the EVA storage case.

3. KEY FEATURES

The ANFLAG BD50 is engineered with advanced features to provide reliable performance in various situations:

- **Powerful Car Jump Starter:** Delivers a peak current of 5500A, capable of starting all gas engines and diesel engines up to 12.0L. Features a "Force Start" function for completely dead or low-voltage batteries, even in extreme temperatures (-4°F to 140°F).
- **Portable 150 PSI Smart Digital Inflator:** Inflates a standard car tire (195/65/R15) from 28 to 36 PSI in approximately 2 minutes. Equipped with a 2.7" large LCD screen for real-time tire pressure readings, 3 optional units (PSI, BAR, KPA), and 4 inflation modes (Car, Motorcycle, Bike, Ball). Supports automatic shut-off upon reaching preset pressure and retains last used data.
- **Built-in Data Memory Function:** The inflator automatically retains the last set and used air pressure data, including unit preferences and pressure values, saving time during subsequent uses.
- **Portable Power Bank:** Features dual USB ports (5V/2.4A) for charging mobile devices, suitable for outdoor activities or emergency situations.
- **600 Lumen LED Lights:** Provides bright illumination for up to 80 hours constantly. Includes 3 modes: flashlight, SOS, and strobe, serving as an emergency light or warning signal.
- **Advanced Safety Protections:** Incorporates 12 types of safety protections, including spark-proof and reverse polarity protection, ensuring safe operation. The device shell is made of V0-grade fire-retardant PC+ABS material and has an IP64 waterproof rating.
- **Retractable Handle:** Ergonomically designed with a sturdy retractable silicone carrying handle for easy portability.

4. PRODUCT COMPONENTS OVERVIEW

Familiarize yourself with the main components of the ANFLAG BD50:

- **Main Unit:** Houses the battery, jump starter circuitry, air compressor, LCD display, and control buttons.
- **LCD Display:** Shows battery level, inflation mode, real-time tire pressure, and error indicators.
- **Control Buttons:** Power button, mode selection (M), unit selection (U), and pressure adjustment (+/-).
- **USB-C Input Port:** For charging the BD50 unit.
- **USB-A Output Ports (x2):** For charging external devices.
- **Jumper Cable Port:** For connecting the heavy-duty jumper cables.

- **Air Hose Port:** For connecting the detachable air hose.
- **LED Light:** Located on the front of the unit.

PRODUCT STRUCTURE



Figure 4.1: An exploded view illustrating the internal components and overall structure of the ANFLAG BD50 unit.

5. SETUP

5.1 Initial Charging

Before first use, fully charge the ANFLAG BD50. Use the provided USB-C charging cable and a compatible USB wall adapter (not included). The LCD display will show the charging progress. A full charge typically takes approximately 2 hours.

5.2 Attaching the Silicone Handle

The retractable silicone handle comes disassembled in the package. Align the ends of the handle with the designated slots on the top sides of the BD50 unit and firmly press them into place until they click securely.



Figure 5.1: The ANFLAG BD50 unit demonstrating its slim profile and the attached retractable silicone handle for easy carrying.

6. OPERATING INSTRUCTIONS

6.1 Jump Starting a Vehicle

Ensure the ANFLAG BD50 is at least 25% charged before attempting to jump start a vehicle.

1. **Connect Jumper Cables:** Insert the blue end of the heavy-duty jumper cable into the jump starter port on the BD50 unit.
2. **Attach to Battery:** Connect the red clamp to the positive (+) terminal of the vehicle's battery and the black clamp to the negative (-) terminal.
3. **Start Vehicle:** Once connected, the indicator light on the jumper cable will turn green. Start your vehicle's engine.
4. **Remove Cables:** After the vehicle starts, immediately remove the jumper cables from the battery, then disconnect them from the BD50 unit.

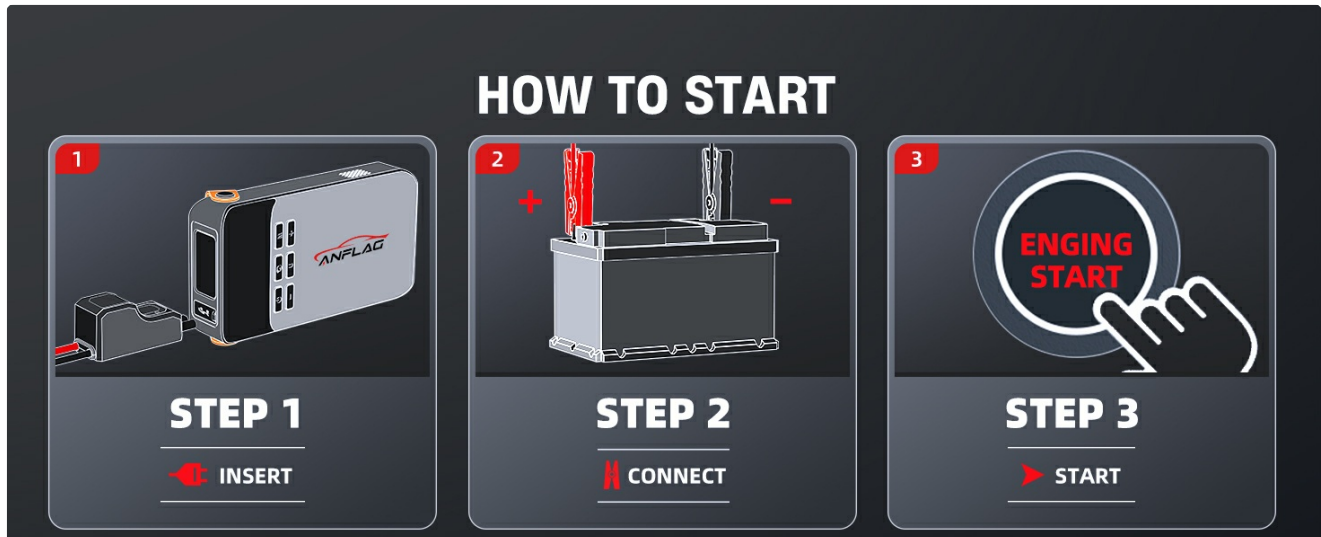


Figure 6.1: A visual guide demonstrating the three steps to jump start a vehicle using the ANFLAG BD50.

6.1.1 Force Start Function

If the vehicle battery is completely dead and the indicator light on the jumper cable does not turn green, use the Force Start function:

1. **Press Force Start Button:** With the jumper cables connected to the BD50 and the vehicle battery, press and hold the "Force Start" button on the jumper cable for 3 seconds.
2. **Verify Indicator:** The indicator on the jumper cable will turn green.
3. **Start Engine:** Immediately start your car engine.
4. **Remove Cables:** After the vehicle starts, immediately remove the jumper cables from the battery, then disconnect them from the BD50 unit.

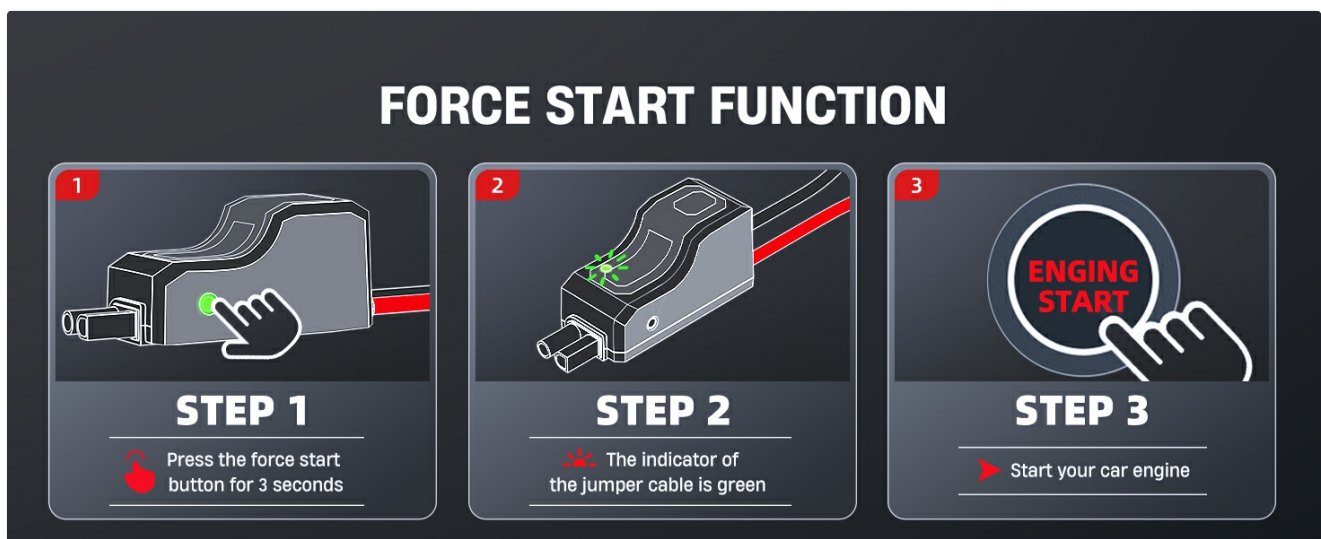


Figure 6.2: Instructions for utilizing the Force Start function when the vehicle's battery is completely discharged.

6.2 Inflating Tires

The ANFLAG BD50 features a smart digital tire inflator with automatic shut-off.

1. **Connect Air Hose:** Connect the detachable air hose to the air hose port on the BD50 unit and firmly tighten it.
2. **Attach to Tire Valve:** Screw the other end of the air hose onto the tire valve stem.
3. **Power On:** Press the power button on the BD50 to turn on the device. The LCD screen will display the current tire pressure.
4. **Select Mode:** Press the 'M' button to cycle through inflation modes (Car, Motorcycle, Bike, Ball).
5. **Select Unit:** Press the 'U' button to switch between pressure units (PSI, BAR, KPA).
6. **Set Pressure:** Use the '+' and '-' buttons to set the desired target pressure.
7. **Start Inflation:** Press the power button again to begin inflation. The compressor will automatically stop when the preset pressure is reached.



Figure 6.3: A three-step visual guide on how to easily inflate tires using the ANFLAG BD50's integrated air compressor.

6.3 Using as a Power Bank

The ANFLAG BD50 can charge various electronic devices via its dual USB-A output ports.

1. **Connect Device:** Plug your device's USB charging cable into one of the USB-A output ports on the BD50.
2. **Begin Charging:** The BD50 will automatically begin charging your device. Monitor your device's screen for charging indication.



Figure 6.4: The ANFLAG BD50 functioning as a mobile power bank, charging a smartphone via its USB-A output port.

6.4 Using the LED Light

The integrated LED light offers three modes for various situations:

1. **Turn On/Off:** Press and hold the power button for a few seconds to turn the LED light on or off.
2. **Change Modes:** Once the light is on, short press the power button to cycle through the modes: Flashlight > SOS > Strobe.



Figure 6.5: The ANFLAG BD50 showcasing its three LED lighting modes: flashlight, SOS, and strobe, useful for various emergencies.

7. SAFETY PRECAUTIONS

The ANFLAG BD50 is designed with 12 types of intelligent safety protections to ensure user safety and device longevity. Always adhere to the following guidelines:

- **Spark Resistance:** Designed to prevent sparks during connection.
- **Extreme Temperature Protection:** Operates safely in temperatures from -4°F to 140°F.
- **Over-Charge Protection:** Prevents battery damage from excessive charging.
- **Over-Voltage Protection:** Safeguards against voltage surges.
- **Over-Current Protection:** Protects against excessive current flow.
- **Reverse Connection Protection:** Prevents damage from incorrect polarity connections.
- **Short-Circuit Protection:** Automatically shuts off in case of a short circuit.
- **Reverse Polarity Protection:** Ensures safe connection even if clamps are reversed.
- **Over-Heat Protection:** Prevents overheating during operation.
- **Over-Power Protection:** Manages power output to prevent overload.
- **IP64 Waterproof:** Provides protection against dust ingress and splashing water from any direction.
- **NTC Temperature Control:** Monitors and regulates internal temperature.

Important: Do not use the air pump continuously for extended periods. If the compressor becomes hot, allow it to cool down for several minutes before resuming inflation. Always ensure the device battery level is above 25% when jump starting a vehicle.

SMART CLIP WITH 12 PROTECTION



Spark
Resistance



Extreme
Temperature



Over-Charge



Over-Voltage



Over-Current



Reverse
Connection



Short-Circuit



Reverse
Polarity



Over-Heat



Over-Power



IP 67
Waterproof



NTC Temperature
Control
(140°F~4°F)

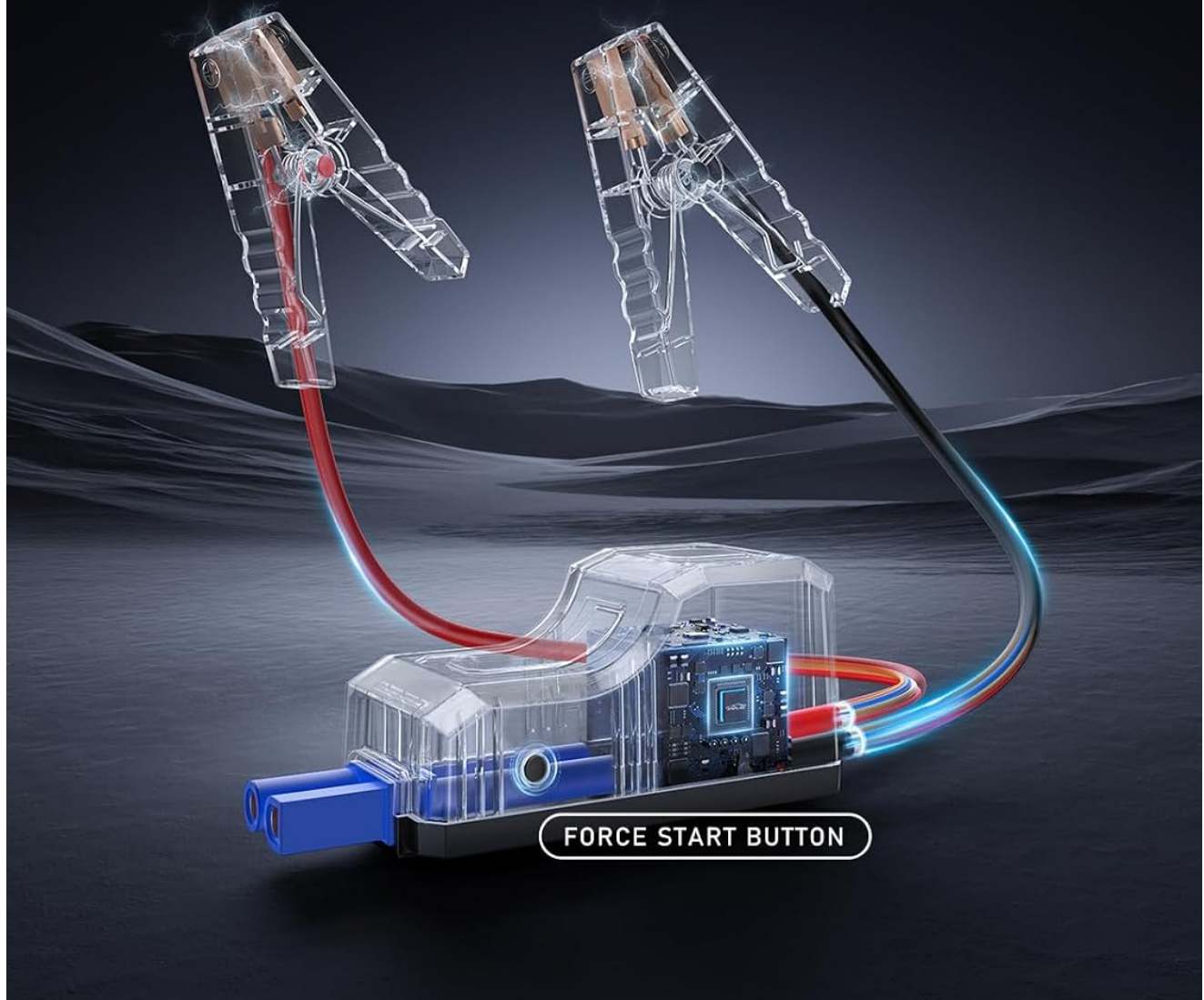


Figure 7.1: The smart clip of the ANFLAG BD50, highlighting its 12 integrated safety protection features.

8. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your ANFLAG BD50:

- **Regular Charging:** To preserve battery life, it is recommended to charge the BD50 every 2-3 months, even if not in

use.

- **Storage:** Store the device in its EVA storage case in a cool, dry place, away from direct sunlight and extreme temperatures.
- **Cleaning:** Use a soft, dry cloth to clean the exterior of the unit. Do not use harsh chemicals or abrasive materials.
- **Cable Inspection:** Periodically inspect the jumper cables and air hose for any signs of wear, damage, or corrosion. Replace if necessary.

9. TROUBLESHOOTING

This section addresses common issues you might encounter with your ANFLAG BD50.

Problem	Possible Cause	Solution
Device does not turn on.	Battery is completely discharged.	Charge the device fully using the USB-C cable.
Vehicle does not start.	Low battery on BD50, incorrect connection, or vehicle issue.	Ensure BD50 is >25% charged. Check clamp connections (red to +, black to -). Try Force Start function. If still no start, vehicle may have other issues.
Air compressor inflates slowly or not at all.	Air hose not securely connected, low BD50 battery, or compressor overheating.	Ensure air hose is tightly screwed onto valve and BD50 port. Charge BD50. Allow compressor to cool down if it has been running for a long time.
LCD display is not working.	Device is off or battery is dead.	Press the power button to turn on. Charge the device.

10. SPECIFICATIONS

Feature	Specification
Brand	ANFLAG
Model	BD50
Peak Output Current	5500 Amps
Engine Compatibility	Up to All Gas / 12.0L Diesel
Air Compressor Max Pressure	150 PSI
Airflow	35 L/Min
Battery Type	Lithium Ion (1 included)
USB-C Input	5V/2A
USB-A Outputs	5V/2.4A (x2)
LED Light Brightness	600 Lumens
Operating Temperature	-4°F to 140°F (-20°C to 60°C)

Feature	Specification
Product Dimensions	8.13 x 1.77 x 4.53 inches
Item Weight	1.87 pounds (850 Grams)
Waterproof Rating	IP64

11. WARRANTY AND SUPPORT

ANFLAG is committed to providing high-quality products and excellent customer service.

- **Warranty:** The ANFLAG BD50 comes with a 2-Year Hassle-free Warranty from the date of purchase. This warranty covers manufacturing defects and ensures product reliability.
- **Technical Support:** Lifetime Technical Support Service is provided for all ANFLAG BD50 users. If you encounter any issues or have questions regarding the product, please contact ANFLAG customer support.
- **Return Policy:** A 30-day unconditional return guarantee is offered for your peace of mind.



Figure 11.1: ANFLAG customer support is available to assist with any inquiries or technical issues, backed by comprehensive warranty and support services.