

AUTDER AD-808

AUTDER AD-808 12V/24V Car Battery and Alternator Tester Instruction Manual

Model: AD-808

1. INTRODUCTION

The AUTDER AD-808 Digital Battery Tester is a versatile tool designed for testing both 12V and 24V batteries across a wide range of vehicles. This includes cars, motorcycles, trucks, RVs, ATVs, SUVs, boats, yachts, mowers, and golf carts. It provides reliable battery health and alternator charging system analysis, helping users determine if a battery needs replacement, a jump start, or if the alternator is functioning correctly.

2. SAFETY INFORMATION

- Always ensure proper connection to battery terminals.
- The AD-808 is equipped with reverse-hookup protection to prevent damage from incorrect connections.
- Avoid contact with battery acid. Wear appropriate personal protective equipment.
- Do not use the device if it appears damaged.
- Keep the device away from children.

3. PACKAGE CONTENTS

Each package includes the following items:

- 1 x AUTDER AD-808 Battery Tester
- 1 x Alligator Clamps Cable
- 1 x Cigarette Lighter Plug Adapter Cable
- 1 x User Manual

4. PRODUCT OVERVIEW



Figure 1: The AUTDER AD-808 unit with included cables.

The AD-808 features an intuitive design with a clear LCD display and LED indicators for easy interpretation of results. It offers three distinct modes for testing: Alternator, 12V Battery, and 24V Battery. The device is compact and designed for user-friendly operation.

Features Display



Figure 2: Detailed view of the AD-808's LCD display, LED indicators for battery and alternator status, and the 4-30V DC test range.

5. SETUP AND CONNECTION

The AD-808 offers two connection methods: using alligator clamps or the cigarette lighter plug adapter cable.

5.1. Using Alligator Clamps

1. Ensure the vehicle engine is off and all accessories are disconnected.

2. Connect the red alligator clamp to the positive (+) terminal of the battery.
3. Connect the black alligator clamp to the negative (-) terminal of the battery.
4. The device will automatically power up and display the current voltage.

5.2. Using Cigarette Lighter Plug Adapter

1. Ensure the vehicle engine is off.
2. Plug the cigarette lighter adapter into the vehicle's 12V or 24V accessory socket.
3. The device will power up and display the current voltage.

2-IN-1

Modes for Vehicle Battery Test

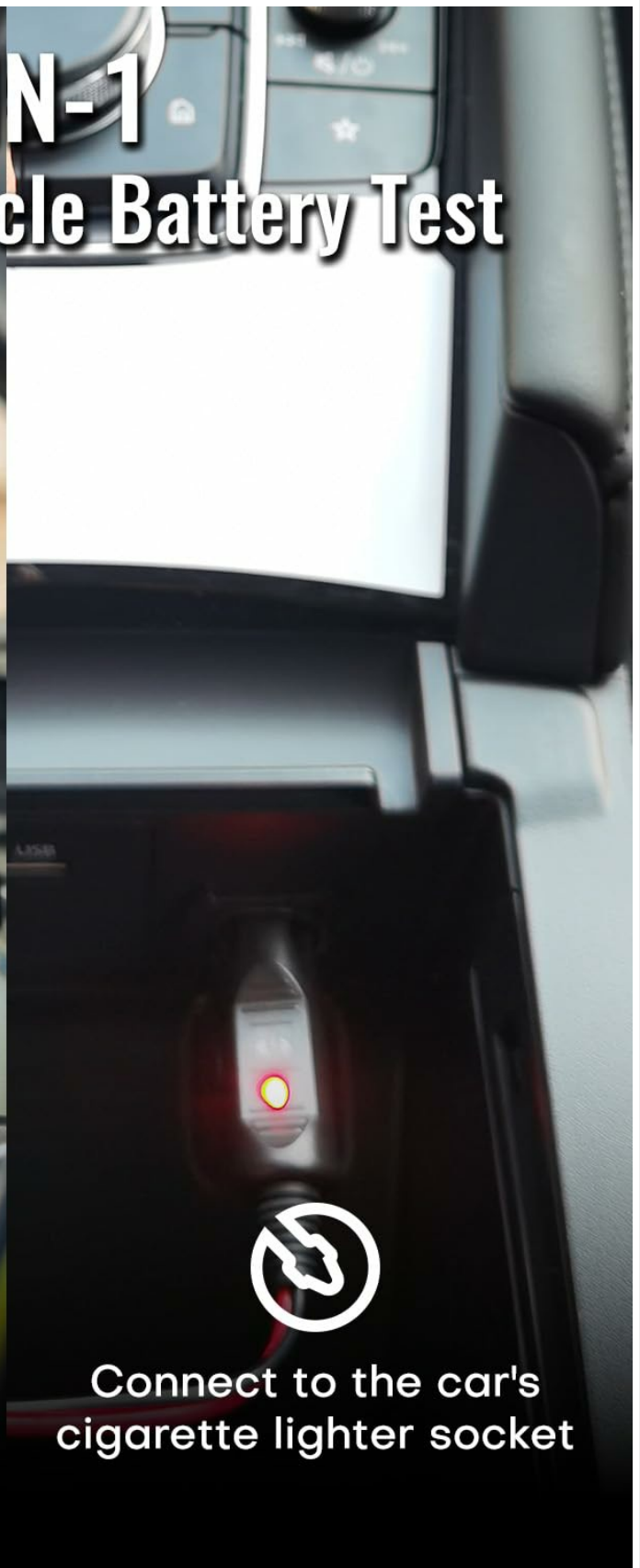
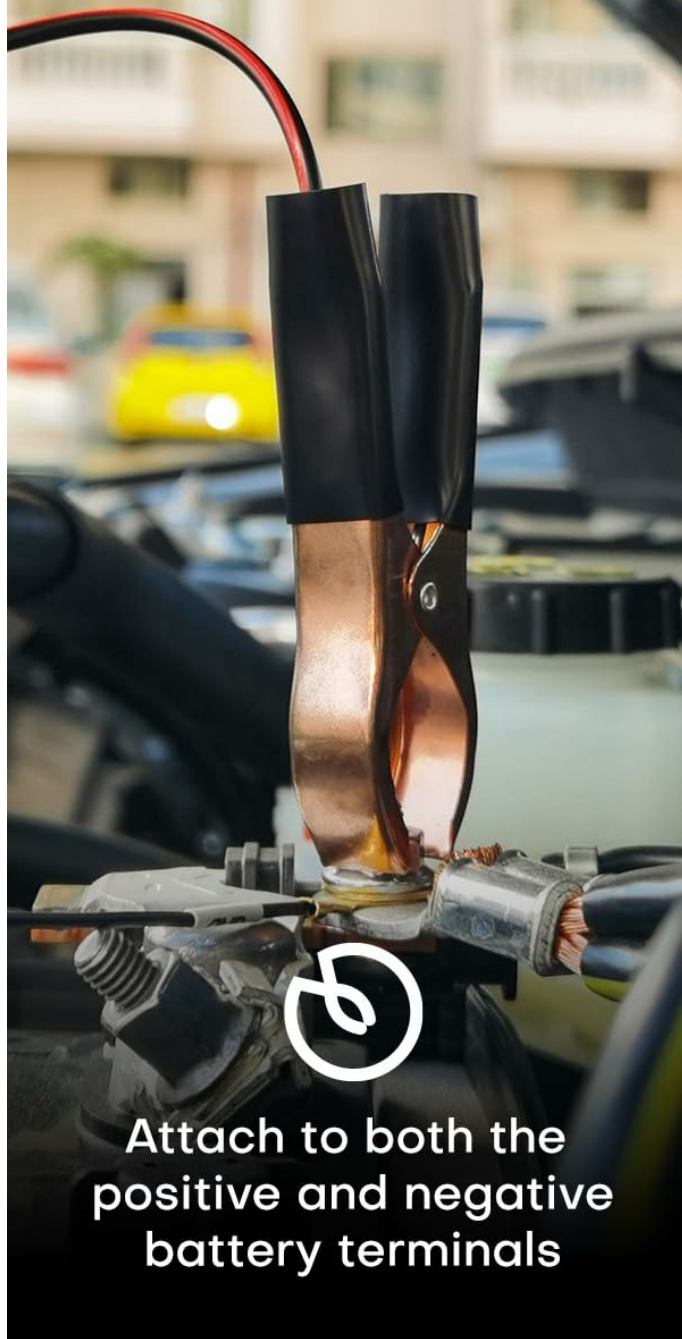


Figure 3: Connection options for the AD-808: directly to battery terminals or via the cigarette lighter socket.

6. OPERATING INSTRUCTIONS

The AD-808 features a three-gear mode switch for different testing scenarios.

Easy Operation

- Step 1 - Connect to battery without vehicle running
- Step 2 - Read battery status on left side of test
- Step 3 - Start vehicle and keep it running
- Step 4 - Read alternator status on right side of tester



(Note: Toggle to 24V switch or 12V switch when testing the corresponding battery, keep the middle default position when testing the alternator)

Figure 4: Overview of the easy operation steps for battery and alternator testing.

6.1. 12V Battery Test Mode

1. Connect the tester to the 12V battery using either the alligator clamps or the cigarette lighter adapter.
2. Set the gear switch to the '12V' position.
3. The LCD screen will display the real-time voltage of the 12V battery.
4. The LEDs on the left side will indicate the battery status (FULL, MEDIUM, LOW, EMPTY).

6.2. 24V Battery Test Mode

1. Connect the tester to the 24V battery.
2. Set the gear switch to the '24V' position.
3. The LCD screen will display the real-time voltage of the 24V battery.
4. The LEDs on the left side will indicate the battery status (FULL, MEDIUM, LOW, EMPTY).

6.3. Alternator Charging System Test Mode

1. Connect the tester to the battery.
2. Set the gear switch to the middle (default) position.
3. The LCD screen will display the real-time voltage.
4. Start the vehicle engine.
5. The LEDs on the right side will indicate the alternator status (HIGH, GOOD, DEAD, REVERSE).

7. UNDERSTANDING TEST RESULTS

7.1. Battery Status LEDs (Left Side)

- **FULL:** Battery is fully charged.
- **MEDIUM:** Battery has a moderate charge.
- **LOW:** Battery charge is low, consider charging.
- **EMPTY:** Battery is discharged, requires immediate charging or replacement.

7.2. Alternator Status LEDs (Right Side)

- **HIGH:** Alternator output is too high, potentially overcharging the battery.
- **GOOD:** Alternator is functioning correctly and providing adequate charge.
- **DEAD:** Alternator is not charging the battery, or output is too low.
- **REVERSE:** Indicates incorrect connection of the tester to the battery terminals.

7.3. LCD Display Voltage Readings

- The LCD displays real-time voltage with an accuracy of approximately 0.01V.
- If the voltage is below 4V, the screen will display 'LO'.
- If the voltage is above 30V, the screen will display 'HI'.

8. SPECIFICATIONS

Model Number	AD-808
Brand	AUTDER
Voltage Test Range	4-30V DC
Battery Compatibility	12V/24V batteries
Display	LCD with LED Indication
Product Dimensions	14 x 6.5 x 2 cm

Item Weight	0.16 Kilograms
Power Source	Battery Powered (from tested battery)
Certification	CE



Figure 5: Physical dimensions of the AD-808 unit and its cables.

9. MAINTENANCE

- Clean the device with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- Store the tester in a dry, cool place away from direct sunlight and extreme temperatures.
- Inspect cables and clamps regularly for any signs of wear or damage. Replace if necessary.

10. TROUBLESHOOTING

10.1. Device Does Not Power On

- Ensure the connections to the battery terminals are secure and correct (red to positive, black to negative).
- Check if the battery voltage is within the operational range (4-30V DC). If the battery is completely dead, the tester may not power on.

10.2. Incorrect Readings or 'LO'/'HI' Display

- Verify that the connections are clean and free from corrosion.
- Ensure the correct gear mode (12V, 24V, or Alternator) is selected for the test being performed.
- If 'LO' or 'HI' is displayed, the voltage is outside the 4-30V DC test range.

10.3. 'REVERSE' LED Indication

- This indicates that the positive and negative clamps are connected incorrectly. Disconnect immediately and re-connect with the red clamp to the positive terminal and the black clamp to the negative terminal.

11. WARRANTY AND SUPPORT

The AUTDER AD-808 Battery Tester comes with a one-year warranty. For any questions, technical support, or service inquiries, please do not hesitate to contact AUTDER customer support. 24-hour online support is available to assist you.

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