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ETURBEV ET2201

ETURBEV TOOLTOP ET2201 Car Battery Tester User Manual

Model: ET2201

1. Introduction

Thank you for choosing the ETURBEV TOOLTOP ET2201 Car Battery Tester. This device is designed to accurately test 12V and 24V lead-acid batteries, providing essential information on battery voltage, internal resistance, and overall health. This manual provides detailed instructions for safe and effective use of your battery tester.

2. Safety Information

- Always wear eye protection and protective gloves when working with batteries.
- Ensure good ventilation in the work area to prevent accumulation of explosive gases.
- Avoid sparks, flames, and smoking near batteries.
- Do not touch battery acid. If contact occurs, flush immediately with water and seek medical attention.
- Connect the red clamp to the positive (+) terminal and the black clamp to the negative (-) terminal. Incorrect connection can damage the tester or battery.
- Do not use the tester if it appears damaged.

3. Product Overview

The ETURBEV TOOLTOP ET2201 is a compact and robust battery tester featuring a 3.2-inch display for clear readings. It comes with two alligator clamps for secure connection to battery terminals.



Figure 3.1: Front view of the ETURBEV TOOLTOP ET2201 Car Battery Tester with connected red (positive) and black (negative) clamps. The display shows voltage, charge status, and battery type selection options.

3.1 Components

- **Main Unit:** Houses the display, control buttons, and internal circuitry.
- **Test Cables:** Integrated red (positive) and black (negative) cables with alligator clamps.

3.2 Display and Buttons

The 3.2-inch color display shows various test parameters. Buttons on the front panel allow navigation and selection of test modes and battery types.



Figure 3.2: Detailed view of the tester's display, showing battery type selection (GEL, AGM, STD, EFB, EN, IEC, CCA, SAE, DIN) and various test indicators. Buttons for MODE, I.R, CHARGING VOLT, EDC VOLT, STARTING VOLT, and a temperature icon are visible below the screen.

4. Setup

1. Ensure the vehicle's ignition is off and all accessories are turned off.
2. Clean the battery terminals to ensure good electrical contact.
3. Connect the red positive (+) clamp of the tester to the positive (+) terminal of the battery.
4. Connect the black negative (-) clamp of the tester to the negative (-) terminal of the battery.

5. The tester will power on automatically once connected correctly.

5. Operating Instructions

The ET2201 offers several testing modes for comprehensive battery analysis.

5.1 Battery Health Test

This test assesses the overall health and charge status of the battery.

1. Connect the tester to the battery as described in Section 4.
2. Use the 'MODE' button to navigate to the Battery Test screen.
3. Select the correct battery type (e.g., GEL, AGM, STD, EFB) and standard (e.g., EN, IEC, CCA, SAE, DIN) using the navigation buttons. Refer to your battery's specifications for accurate selection.
4. The tester will display the battery voltage, internal resistance (I.R), and a health status (e.g., GOOD, BAD).
5. Interpret the results: A 'GOOD' status indicates a healthy battery. A 'BAD' status suggests the battery needs charging or replacement.

5.2 Cranking System Test (Starting Volt)

This test evaluates the vehicle's starting system, including the starter motor.

1. Ensure the battery is fully charged or at least above 75% charge for accurate results.
2. Connect the tester to the battery.
3. Navigate to the 'STARTING VOLT' test mode using the 'MODE' button.
4. Follow the on-screen prompts to start the vehicle's engine.
5. The tester will record the minimum voltage during cranking and provide an assessment of the starting system's performance.

5.3 Charging System Test (Charging Volt)

This test checks the alternator and the vehicle's charging system.

1. Connect the tester to the battery.
2. Navigate to the 'CHARGING VOLT' test mode using the 'MODE' button.
3. Start the vehicle's engine and let it idle.
4. The tester will display the charging voltage. A stable voltage within the manufacturer's specified range (typically 13.5V to 14.7V) indicates a healthy charging system.
5. Follow any additional on-screen instructions, such as increasing engine RPM, to observe voltage under load.

6. Maintenance

- **Cleaning:** Wipe the tester with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Storage:** Store the tester in a dry, cool place away from direct sunlight and extreme temperatures.
- **Cable Inspection:** Regularly inspect the test cables and clamps for any signs of damage or wear. Replace if necessary.

7. Troubleshooting

Problem	Possible Cause	Solution
Tester does not power on.	Incorrect connection; battery completely dead.	Ensure clamps are securely connected to the correct battery terminals. Check battery voltage with a voltmeter; if below 8V, the tester may not power on.
Inaccurate readings.	Poor connection; incorrect battery type/standard selected.	Clean battery terminals and re-connect clamps. Verify the selected battery type and standard match your battery.
Tester displays "BAD" result.	Battery is discharged or faulty.	Charge the battery and re-test. If still "BAD", the battery may need replacement.

8. Specifications

- **Model:** ET2201
- **Display:** 3.2-inch Color Screen
- **Application:** 12V & 24V Lead-Acid Batteries (STD, GEL, AGM, EFB)
- **Test Standards:** CCA, SAE, EN, IEC, DIN
- **Functions:** Battery Health Test, Cranking Test, Charging Test, Voltage, Internal Resistance, Temperature
- **Operating Temperature:** 0°C to 50°C (32°F to 122°F)
- **Storage Temperature:** -20°C to 70°C (-4°F to 158°F)
- **Dimensions (Approximate Package):** 1.18 x 0.79 x 0.39 inches
- **Weight (Approximate Item):** 1.76 ounces (50 Grams)

9. Warranty and Support

ETURBEV products are manufactured to high-quality standards. For warranty information or technical support, please refer to the contact details provided with your purchase or visit the official ETURBEV website. Please retain your proof of purchase for warranty claims.

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