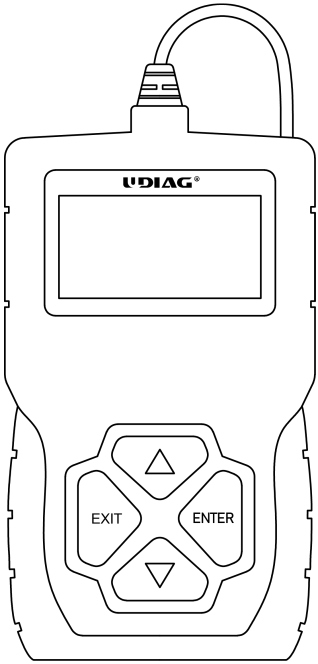
UDIAG

Pioneering Automotive Tools



Quick Start Guide

Instructions for use

Thank you for purchasing the UDIAG BT208 car battery tester. Please read this manual carefully before use. Follow all safety and operating instructions. The device is intended exclusively for the diagnosis of lead-acid batteries. Any other use is prohibited.

Safety instructions

- Always follow safety rules for working with electrical equipment during testing.
- Use protective goggles according to local standards (e.g., ANSI, ČSN, DIN).
- Do not take measurements near hot engine parts.
- Work in a well-ventilated area, never in enclosed garages.
- Secure the vehicle against movement – shift to "P" (automatic) or "N" (manual), apply the parking brake, and use wheel chocks.
- Do not connect or disconnect the tester with the ignition switched on or the engine running.
- Keep a fire extinguisher handy.

Device Features

The UDIAG BT208 digital battery tester allows:

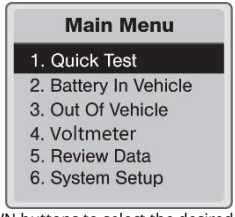
- Testing of all types of lead-acid batteries: conventional flooded, AGM (flat plate and spiral), GEL, and EFB batteries.
- Immediate battery status evaluation using an LCD display and five diagnostic results.
- Battery test without the need for full charging.
- Diagnosis of faulty cells and recommendation for battery replacement.
- Test of starting current and starting voltage.
- Test of the alternator and rectifier charging system.
- Language and display contrast selection.
- **Compatibility with standards: CCA, BCI, CA, MCA, JIS, DIN, IEC, EN, SAE, GB.**

Technical specifications

- Input voltage: 8–30 V DC
- Operating temperature: -10 °C to 60 °C
- Storage temperature: -20 °C to 70 °C
- Control: UP / DOWN / ENTER / EXIT buttons
- Connection: 2 cables with terminals (red + / black -)

Basic operation

- Connect the tester terminals to the car battery terminals (red to +, black to -).
- Turn on the tester – the main menu will be displayed.



- Use the UP/DOWN buttons to select the desired test and confirm with the ENTER button.
- After completing the test, observe the result on the display.
- Pressing the EXIT button will take you one level back.

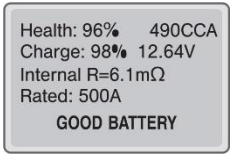
Types of tests

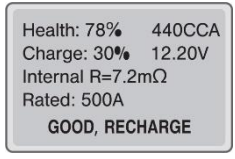
Quick battery test

- Allows you to determine the voltage, internal resistance, actual and nominal CCA, charge, and overall condition of the battery within a few seconds.
- After selection, enter the battery capacity (e.g., 30 Ah) and confirm with ENTER.

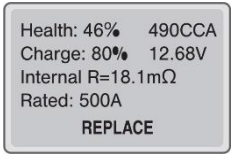
The result is one of the following states:

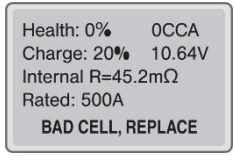
- GOOD BATTERY – battery is OK.
- GOOD, RECHARGE – recharge the battery.



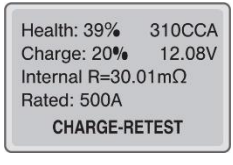


- REPLACE – the battery has reached the end of its service life.
- BAD CELL, REPLACE – cell defect, replace the battery.



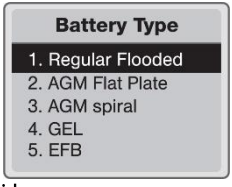


- CHARGE, RETEST – recharge the battery and repeat the test.



Battery test in the vehicle

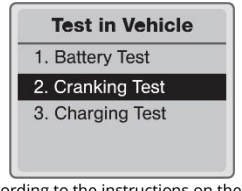
- Select battery type: Flooded / AGM flat plate / AGM spiral / GEL / EFB.
- Select the standard and value (e.g. CCA 600).
- Start the test and wait for the result (approx. 5 seconds).



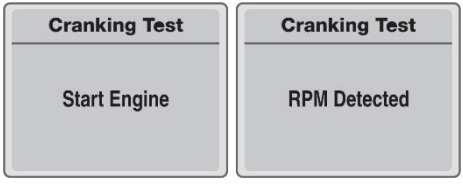
Battery test outside the vehicle

- The procedure is the same as for the test in the vehicle, but the battery is not connected to the car's electrical system.

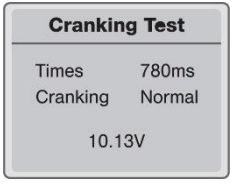
Start test



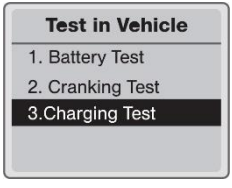
- Start the engine according to the instructions on the display.



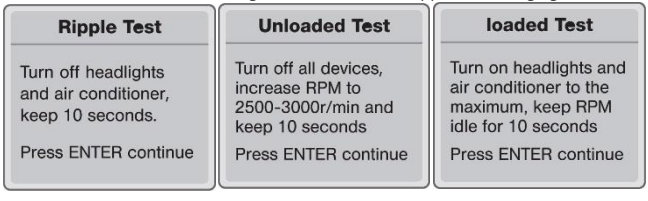
- The tester measures the starting voltage and the starting time.
- If the voltage drops below 9.6 V, the starter or the battery may be faulty.



Charging test

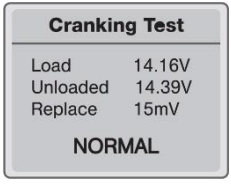


- Start the test with the engine running.
- The tester measures voltage with/without load, ripple, and charging status.



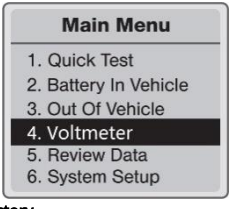
Result e.g.:

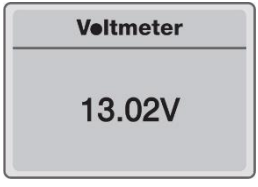
- StandardL – everything is fine.
- OVERCHARGE – overvoltage, check the alternator.
- NO OUTPUT – the alternator does not supply voltage.



Voltmeter

- Displays the current voltage at the battery terminals in real time.





Test History

- Allows you to display the results of previous tests.

System settings

Language

- In the "Settings" menu, select Language and confirm with ENTER.
- Select the language using the UP/DOWN buttons, confirm with ENTER.

Contrast

- In the "Settings" menu, select Contrast.
- Select the contrast level and confirm with ENTER.

Device information

- In the "Settings" menu, select Device Info.
- Use the EXIT button to go back.

Final remarks

- After each test, we recommend disconnecting the tester from the battery.
- The tester is not intended for continuous monitoring or diagnostics while driving.
- Keep the tester dry, out of reach of children and away from high temperatures.

Norma	Description	Measuring range
CCA	Cold cranking current	100-2000
BCI	Battery Council International (USA)	100-2000
CA	Starting current at 0 °C	100-2000
MCA	Starting current for marine batteries at 0 °C	100-2000
JIS	Japanese Industrial Standard	26A17-245H52
DIN	German DIN standard for car batteries	100-1400
IEC	International Electrotechnical Standard IEC	100-1400
EN	European standard for car batteries	100-2000
SAE	Standard of the American Society of Automotive Engineers	100-2000
GB	Chinese National Standard	30-220Ah

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