

KAIWEETS KVB01

KAIWEETS KVB01 12V/24V Automotive Battery Tester User Manual

Model: KVB01

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1. SAFETY INFORMATION

Please read all safety warnings and instructions before using this product. Failure to follow the warnings and instructions may result in electric shock, fire, or serious injury.

- Always wear eye protection when working near batteries.
- Ensure proper ventilation when testing batteries to avoid gas accumulation.
- Avoid contact with battery acid. If contact occurs, rinse immediately with water and seek medical attention.
- Do not connect the tester to voltages outside its specified range (12V/24V).
- This product is designed for lead-acid batteries only. Do not use with other battery types.
- The device features reverse polarity protection to prevent damage from incorrect connections.
- Adhere to IEC/EN61010-1 safety standards.

2. PRODUCT OVERVIEW

The KAIWEETS KVB01 is a versatile 12V/24V battery tester designed for diagnosing the health and performance of lead-acid batteries in various vehicles. It offers multiple test modes to provide a comprehensive analysis of your battery and charging system.



Figure 2.1: KAIWEETS KVB01 Battery Tester connected to a car battery.

Key Features:

- **Multi-functional Testing:** Includes Battery Test, Cranking Test, Charging Test, and Load Test.
- **Wide Compatibility:** Supports 12V and 24V lead-acid batteries (Flooded, GEL, AGM, SLA, VRLA) with CCA values from 100-2000. Compatible with various standards like CCA, EN, JIS, DIN, IEC.
- **Easy Operation:** Simple connection with red and black clips, displaying results on a clear 2.4-inch LCD screen.
- **Safety Features:** Built-in reverse polarity protection and internal input protection, adhering to IEC/EN61010-1 safety standards.
- **Multi-language Support:** System settings available in 7 languages.

幅広い車種に適合



7ヶ国語対応



ロシア語



フランス語



ドイツ語



日本語



スペイン語



イタリア語



英語

Figure 2.2: KVB01 compatibility with various battery types (JIS, DIN, EN, CCA, IEC, FLOODED, GEL, AGM, SLA, VRLA).

起動テスト

実際の起動電圧を測定して **バッテリーの放電性能** を分析する

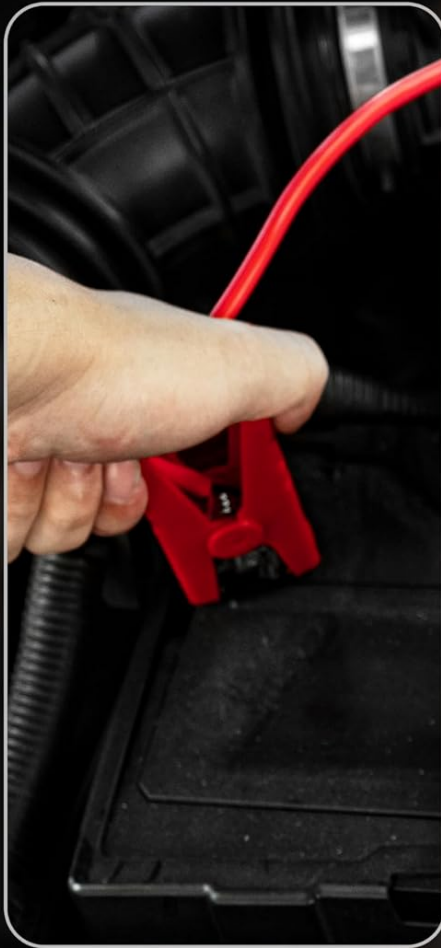


Figure 2.3: KVB01 application to various vehicles (motorcycle, car, truck, yacht, golf cart) and 7-language support.

3. SETUP

Package Contents:

- KAIWEETS KVB01 Battery Tester x1
- 2m Extension Test Cable x1
- Storage Bag x1
- User Manual x1 (multi-language)

Connecting the Tester:

1. Ensure the vehicle's ignition is off and all accessories are disconnected.
2. Locate the vehicle's battery.
3. Connect the **red** test clip to the battery's **positive (+) terminal**.

4. Connect the **black** test clip to the battery's **negative (-) terminal**.
5. The tester will power on automatically, drawing power directly from the battery.



多機能バッテリーチェッカー



負荷テスト



充電テスト



充電テスト



抵抗テスト



バッテリーテスト

Figure 3.1: KVB01 main menu after successful connection.

4. OPERATION

The KVB01 offers four main test modes. Use the navigation buttons (**Up/Down arrows**) to select a mode and the **"M ENTER"** button to confirm.

4.1. Battery Test

This test assesses the overall health and lifespan of the battery.

1. From the main menu, select "Battery Test" and press **"M ENTER"**.
2. Input the battery's CCA (Cold Cranking Amps) rating. This can usually be found on the battery label. Use the arrow buttons to adjust the value and **"M ENTER"** to confirm.

3. The tester will display results including State of Charge (SOC), State of Health (SOH), Voltage, CCA value, and Internal Resistance (RES).



Figure 4.1: Battery Test results showing SOC, SOH, Voltage, CCA, and Resistance.

4.2. Cranking Test

This test measures the battery's discharge performance during engine startup.

1. From the main menu, select "Cranking Test" and press "M ENTER".
2. Follow the on-screen prompts to start the engine.
3. The tester will analyze the dynamic voltage during cranking and display the cranking voltage and standard voltage.



Figure 4.2: KVB01 Cranking Test menu.

4.3. Charging Test

This test evaluates the performance of the vehicle's charging system (alternator).

1. From the main menu, select "Charging Test" and press "**M ENTER**".
2. Follow the on-screen prompts to start the engine and run it at idle.
3. The tester will analyze the dynamic voltage, maximum voltage, and minimum voltage of the charging system.

高性能バッテリーテスター結果の判定



Figure 4.3: KVB01 Charging Test menu and example results.

4.4. Load Test

This test measures the alternator's performance under load.

1. From the main menu, select "Load Test" and press "**M ENTER**".
2. Follow the on-screen prompts to apply a load (e.g., turn on headlights, heater fan).
3. The tester will display the dynamic voltage, minimum voltage, and standard voltage under load.



Figure 4.4: KVB01 Load Test menu.

5. MAINTENANCE

- Keep the tester clean and dry. Wipe with a soft, damp cloth if necessary. Do not use abrasive cleaners or solvents.
- Store the device in the provided storage bag when not in use to protect it from dust and damage.
- Avoid exposing the tester to extreme temperatures or direct sunlight for prolonged periods.
- Regularly inspect the test cables and clips for any signs of damage or wear. Replace if necessary.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Tester does not power on.	Incorrect connection to battery terminals. Battery voltage too low.	Ensure red clip is on positive (+) and black clip on negative (-). Check battery voltage; if below 9V, the tester may not power on.
Inaccurate test results.	Loose connections. Incorrect CCA input. Battery terminals are dirty.	Ensure clips are securely attached. Verify the CCA value entered matches the battery's rating. Clean battery terminals if corroded.
Screen displays "Error" or "Warning".	Battery fault detected. System fault during test.	Refer to the specific error code on the screen for detailed information. Re-run the test. If the error persists, the battery or charging system may require professional inspection.

7. SPECIFICATIONS

Feature	Detail
Brand	KAIWEETS
Model	KVB01
Operating Voltage	9V - 30V DC
Battery Types Supported	12V & 24V Lead-Acid Batteries (Flooded, GEL, AGM, SLA, VRLA)
Test Standards	CCA, EN, JIS, DIN, IEC
CCA Range	100-2000 CCA
Display	2.4-inch LCD
Product Dimensions	14 x 6.6 x 2.9 cm
Item Weight	0.5 kg
Safety Standard	IEC/EN61010-1
Included Components	Battery Tester, 2m Extension Test Cable, Storage Bag, User Manual
Country of Origin	China

8. WARRANTY & SUPPORT

KAIWEETS provides a **3-year warranty** for the KVB01 Battery Tester from the date of purchase. This warranty covers manufacturing defects and malfunctions under normal use.

For technical support, warranty claims, or any questions regarding the product, please contact KAIWEETS customer service through their official website or the retailer where the product was purchased.

Please retain your purchase receipt as proof of purchase for warranty purposes.



