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› KONNWEI KW341 6V 12V 24V Automotive Battery Tester User Manual

KONNWEI KW341



KONNWEI KW341 Automotive Battery Tester User Manual

Model: KW341

1. INTRODUCTION

Thank you for choosing the KONNWEI KW341 Automotive Battery Tester. This device is designed to accurately test 6V, 12V, and 24V lead-acid and lithium batteries, providing comprehensive analysis of battery health, cranking performance, and charging system efficiency. This manual provides detailed instructions for safe and effective use of your battery tester.

2. SAFETY INFORMATION

Please read all safety warnings and instructions carefully before using this device.

- **Eye Protection:** Always wear ANSI-approved eye protection when working near batteries.
- **Ventilation:** Ensure adequate ventilation when working with batteries, as they can produce explosive gases.
- **Sparks and Flames:** Keep sparks, flames, and smoking materials away from batteries.
- **Reverse Polarity Protection:** The KW341 features built-in reverse polarity protection. However, always ensure correct connection (red clamp to positive, black clamp to negative) to prevent damage to the tester or battery.
- **Insulation:** Do not touch uninsulated battery terminals or wires.
- **Children:** Keep the device out of reach of children.

3. PRODUCT OVERVIEW

The KONNWEI KW341 is a compact and user-friendly battery testing tool. It features a backlit LCD display, navigation buttons, and heavy-duty copper clamps for secure connection.

One-Click Quick Battery Test

Scan the QR code to check the Battery Test results



Figure 3.1: Front view of the KONNWEI KW341 Battery Tester.

How to Test Your Battery?



Figure 3.2: KONNWEI KW341 Battery Tester with attached test clamps.

4. SETUP

4.1 Connecting the Tester

1. Ensure the vehicle ignition is off and all accessories are turned off.
2. Connect the **red** positive (+) clamp to the positive (+) terminal of the battery.
3. Connect the **black** negative (-) clamp to the negative (-) terminal of the battery.
4. The tester will power on automatically once connected correctly.

6V/12V/24V Battery Testing Widely Applicable

FOR 6V/12V/24V CAR TRUCK TEST RANGE

Battery Standard	Range
CCA	10-2000
JIS	26A17-245H2
EN	10-2000
DIN	10-1400
SAE	10-2000
IEC	10-1400
BCI	10-2000
CA	10-2000
MCA	10-2000
GB	5-220Ah

FOR Electric Vehicle Test Range

Ah (5-220Ah)

Multi-USE



► No External Power Needed:

Operates without additional batteries or power adapters, powered directly by the battery under test for convenient use

► Reverse Polarity Protection:

Features built-in reverse polarity protection

► Ensure correct connection:

red clamp to positive (+) terminal, black clamp to negative (-) terminal. Incorrect connections will prevent operation, safeguarding both the battery and the tester.



Figure 4.1: Proper connection of the KW341 to a vehicle battery.

4.2 Initial Settings

Upon first use or after a reset, you may need to set the language. Navigate to the 'Setup' menu using the arrow keys and press 'OK'. Select 'Language' and choose your preferred language.

5. OPERATING INSTRUCTIONS

5.1 Main Menu Navigation

Use the **UP** and **DOWN** arrow buttons to scroll through menu options. Press the **OK** button to confirm a selection. Press the **ESC** button to return to the previous screen or exit a function.

5.2 Battery Test

This function assesses the overall health of the battery.

1. From the main menu, select 'Battery Test' and press 'OK'.

2. Select the battery location (In-Vehicle or Out-Of-Vehicle).
3. Select the battery type (e.g., Regular Flooded, AGM Flat Plate, AGM Spiral, Gel, EFB, Lithium).
4. Select the battery standard (e.g., CCA, JIS, EN, DIN, SAE, IEC, GB).
5. Enter the rated CCA (Cold Cranking Amps) or other standard value as indicated on the battery label.
6. The tester will perform the analysis and display the results.

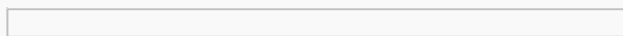


Figure 5.1: Steps for a quick battery test and result interpretation.

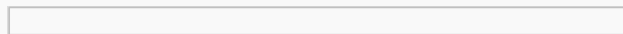


Figure 5.2: Detailed workflow for conducting a battery test.

Interpreting Battery Test Results:

- **SOH (State of Health):** Indicates the overall condition of the battery relative to a new battery.
- **SOC (State of Charge):** Shows the current charge level of the battery.
- **Measured CCA:** The actual cold cranking amps measured by the tester.
- **Internal Resistance (R):** A higher resistance indicates an aging or defective battery.
- **Voltage (V):** The current voltage of the battery.

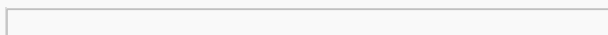


Figure 5.3: Summary of battery test result interpretations.

Supported Battery Types:

The KW341 supports a wide range of battery types:

- Regular Flooded
- AGM Flat Plate
- AGM Spiral
- Gel
- EFB (Enhanced Flooded Battery)
- Lithium



Figure 5.4: Visual representation of battery types supported by KW341.

Supported Battery Standards:

The device supports various global battery rating standards:

- CCA (10-2000)
- JIS (26A17-245H2)
- EN (10-2000)
- DIN (10-1400)
- SAE (10-2000)
- IEC (10-1400)
- GB (5-220Ah)
- BCI (10-2000)
- CA (10-2000)

- MCA (10-2000)



Figure 5.5: Table of supported battery standards and applicable vehicle types.

5.3 Cranking Test

The cranking test measures the battery's ability to start the engine.

1. From the main menu, select 'Cranking Test' and press 'OK'.
2. Follow the on-screen prompts to start the engine.
3. The tester will record the minimum cranking voltage and duration.
4. Compare the results with the normal voltage ranges provided by the tester or vehicle manufacturer.



Figure 5.6: Workflow for conducting a cranking test.



Figure 5.7: Interpretation of cranking test results for 12V and 24V systems.

5.4 Charging Test

The charging test evaluates the alternator's performance and the vehicle's charging system.

1. From the main menu, select 'Charging Test' and press 'OK'.
2. Start the engine and let it idle.
3. Follow the on-screen prompts to increase engine RPM (e.g., to 2000-3000 RPM) and hold for a few seconds.
4. The tester will measure loaded voltage, unloaded voltage, and ripple voltage.
5. The results will indicate if the charging system is normal, low, or high.

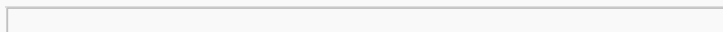


Figure 5.8: Workflow for conducting a charging test.



Figure 5.9: Interpretation of charging test results for 12V and 24V systems.

5.5 Cloud Printing and Software Updates

The KW341 supports generating test reports via QR code for cloud printing and analysis. It also supports free software updates via a Windows PC.

1. **Cloud Printing:** After a test, press 'OK' to generate a QR code. Scan the QR code with your smartphone to view and print the detailed test report online. [Example Report Link](#)
2. **Software Updates:** Connect the device to a Windows PC using the provided USB cable. Visit the KONNWEI official website to download the update tool and latest firmware.



Figure 5.10: The KW341 supports cloud printing of test reports via QR code.

5.6 Official Product Video

Your browser does not support the video tag.

6. MAINTENANCE

- **Cleaning:** Clean the device 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. Ensure the clamps are clean and free of corrosion before storage.
- **Cable Care:** Avoid sharp bends or kinks in the test cables to prevent internal damage.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Tester does not power on	Poor connection; Battery completely dead; Reverse polarity	Check clamp connections; Ensure battery has some voltage; Reconnect clamps correctly (red to +, black to -)
Inaccurate readings	Loose connections; Incorrect battery type/standard entered; Corroded battery terminals	Ensure secure connections; Verify entered battery parameters; Clean battery terminals
Screen frozen	Software glitch	Disconnect from battery, wait 10 seconds, then reconnect. If issue persists, check for firmware updates.

8. SPECIFICATIONS

Feature	Specification
Model	KW341
Voltage Range	6V, 12V, 24V
Test Range	10-2000 CCA
Battery Types	Flooded, AGM (Flat Plate & Spiral), Gel, EFB, Lithium
Test Standards	CCA, JIS, EN, DIN, SAE, IEC, GB, BCI, CA, MCA
Display	Backlit LCD
Operating Temperature	0°C to 50°C (32°F to 122°F)
Storage Temperature	-20°C to 70°C (-4°F to 158°F)
Power Source	Battery Powered (from vehicle battery)
Dimensions	Approx. 3.39 x 0.98 x 6.42 inches
Weight	0.33 kg

9. WARRANTY

The KONNWEI KW341 Automotive Battery Tester comes with a **1-year warranty** from the date of purchase. This

warranty covers manufacturing defects and malfunctions under normal use. It does not cover damage caused by misuse, accidents, unauthorized modifications, or improper maintenance.

10. SUPPORT

For technical assistance, troubleshooting, or warranty claims, please contact KONNWEI customer support. Refer to the contact information provided with your product packaging or visit the official KONNWEI website.



Figure 10.1: KONNWEI offers 24-hour customer support.

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question