KONNWEI®

KW210

Car Battery Tester

User's Manual



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1 Product Summary

1.1 Product Profile

KW210 Battery Tester adopts the state-of-the -art conductance testing technology in the word to easily, quickly and accurately measure the actual cold cranking amps capability of the vehicle starting battery, healthy state of the battery itself, and common fault of the vehicle starting system and charging system, which can help maintenance personnel to find the find the problem quickly and accurately, thus to achieve quick vehicle repair.

1. Test all automotive cranking lead acid battery, including ordinary lead acid battery, AGM flat plate battery, AGM spiral battery, and Gel battery, etc.
2. Directly detect bad cell battery.
3. Feature reverse polarity protection; reverse connection may not damage the tester or affect the vehicle and battery.
4. Directly test the battery with loss of electricity, full charge is not required before testing.
5. Testing standards cover the majority of world's battery standards, such as CCA, BCI, CA,MCA, JIS, DIN, SAE.
6. Support multi-languages, customer can select different language package, whih includes:
   English, German, French, Dutch, Russian, Spanish, Italian , Portuguese
7. Upload the recorded test data to computer (windows) and print it out.
8. Life time update free by updating tool BTLINK from www.konnwei.com. If you have any good idea or problems, please contact us by email: konnwei@konnwei.com

1.2 Product Function

KW210 battery tester features the following functions: battery test, cranking test, charging test and other additional functions.

Battery test mainly aims to analyze the battery healthy status to calculate the actual cold cranking capability of the battery of the battery and the aging extent, which provide reliable analysis evidence for the test and maintenance of the battery. If may notify the user to replace battery in advance when the battery gets aged.

Cranking test is used to test and analyze the starting motor. Testing the actual required cranking current and cranking voltage of the starting motor is helpful to determine whether the starting motor works properly or not. If the starting malfunction may cause an increased starting loaded torque; or rotor friction of the starting motor generates an increasing friction of the starting motor itself. Charging test is tocheck and analyze the charging system, including generator, rectifier, rectifier diode, etc., thus to find out whether the output voltage of the generator is normal, the rectifier diode works properly and the abnormal, it will lead to over charge or incomplete charge of the battery, thus cause quick damage to the battery and greatly shorthen the life of other loaded appliance.

1.3 Technical Parameters

1. Cold Craning Amps Measurement Range:

Measurement Standard	Measurement Range
CCA	100-2000
BCI	100-2000
CA	100-2000
MCA	100-2000
JIS	26A17-245H2
DIN	100-1400
IEC	100-1400
EN	100-2000
SAE	100-2000

2. Voltage Measurement Range： 8-16V DC

1.4 Working Environment Requirement

Working Environment Temp: 0°C – 50°C/ -32°F – 122°F

It is applicable for automotive manufacturers, automotive maintenance and repair workshops, automotive battery factories, automotive battery factories, automotive battery distributors, and educational organizations, etc.

2. Product Information

2.1 Tool Description



UP SCROLL BUTTON: Move cursor up for selection.

DOWN SCROLL BUTTON: Move cursor down for selection.

ENTER ENTER BUTTON: confirms a selection(or action) from a menu list.

ESC ESC BUTTON: Returns to previous menu.

Mini-USB Port: Connects to computer for printing and upgrading.

2.2 Product Specifications

1. Display: LCD
2. Operating Temperature: 0°C – 50°C/ 32°F – 122°F
3. Storage Temperature: -20°C – 70°C/ -4°F – 158°F
4. Power: Provided via cable from car battery
5. Dimensions:

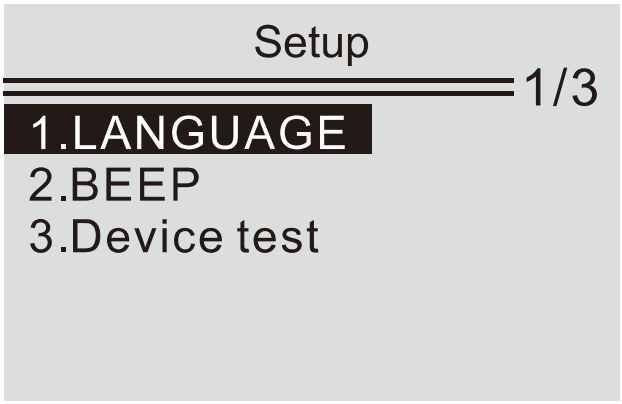
Length	Width	Height
140mm(5.51"")	80mm(3.15"")	24mm(0.94"")

2.3 Accessories Included

1. 1 x Mini USB cable
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2.4 Tool Setup

From the startup screen, or press **EXIT** button to enter Main Menu. Press **UP/DOWN** button to select the **[Setup]** function in the Main Menu and press **ENTER** button, The screen will display the interface as shown below:



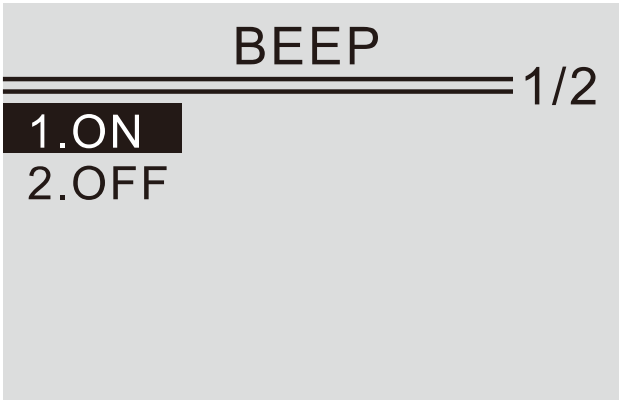
The Tool allows you to make the following adjustments, settings:

1. **Select language**: Selects desired language.
   Press **UP/DOWN** key to choose **[Language]** and press **ENTER** button, the screen will display the interface as shown bellow:



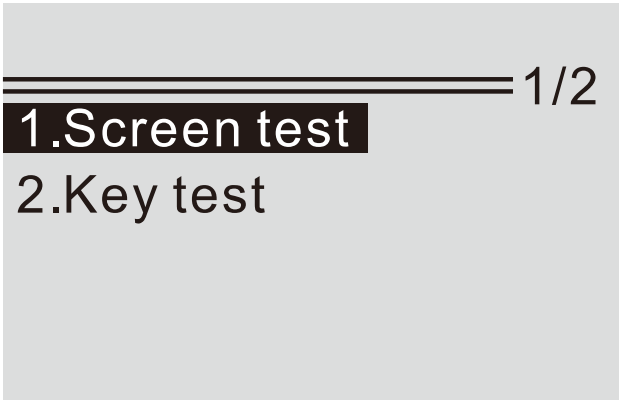
You can press **UP/DOWN** key to select any language and press **ENTER** button to confirm. The system will convert to the chosen language interface at once.

2. **Beep**: ON/OFF the Beeper.
Press **UP/DOWN** key to choose [BUZZ] and press **ENTER** button, the screen will display the interface as shown below:



You can press **ENTER** button to cover ON or OFF, Press **EXIT** key to return.

3. **Device test**: Keyboard, LCD display detection.
Press UP/DOWN key to choose [Device test] and press ENTER button, the screen will display the interface as shown below:



A. Screen test
The Screen test function checks if the LCD display is working normally.

1. From Setup screen, use **UP/DOWN** scroll button to select Device test, and press the **ENTER** button.