

# User Manual

12V Battery Tester



Please read this manual thoroughly before operating your battery tester.

## INSTRUCTIONS

1. Please ensure that the temperature of battery is higher than 0°C (32°F) and the battery has been charged before test.
2. Serious power loss and low temperature will lead to inaccurate test results.
3. Keep the engine in the off state during the test.
4. When testing the battery, the alligator clip must keep good contact with the battery pile head.
5. If the alligator clip cannot be directly clamped on the battery pile head, the test result may be inaccurate. Please clamp it as close to the battery pile head as possible.
6. If the skin of the cable is damaged, it may cause a short circuit. Please stop using it immediately and contact maintenance personnel.
7. The device may heat up during multiple consecutive tests. This is normal and will not affect the accuracy of the test results.

## SPECIFICATIONS

1. Product Name: 12V Battery Tester
2. Input Voltage range: 8V ~ 25V

3. Cold Cranking Amps Measure Range:

Measure Standard	Measure Range	Description
CCA	100-2000	Cranking Amps
BCI	100-2000	Battery Council International Standard
CA	100-2000	Cranking Amps Standard
MCA	100-2000	Marine Cranking Amps Standard
JIS	26A17-245H52	Japan Industrial Standard
DIN	100-1400	German Auto Industry Committee Standard
IEC	100-1400	Internal Electro Technical Commission Standard
EN	100-2000	European Automobile Industry Association Standard
SAE	100-2000	Society of Automotive Engineers Standard
GB	30-220(Ah)	China National Standard

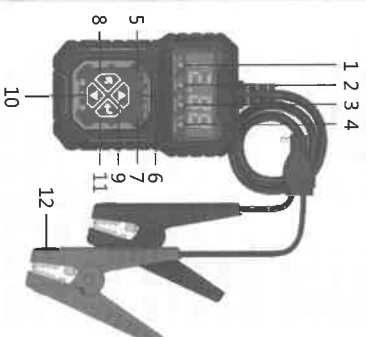
4. Working Temperature: -20°C~70°C (-4°F~158°F)
5. Storage Temperature: -30°C~80°C (-22°F~176°F)
6. Display: 4-bit 8-segment LED Display
7. Dimensions: (L)115mm x (W)70mm x (H)20mm

## KEY FEATURES

1. Test the Cold Cranking Amps (CCA) of the vehicle battery and display test results.
2. Test the starting system of the vehicle.
3. Test the charging system of the vehicle.

## APPEARANCE

- ① LED light for low voltage
- ② LED light for failing to clamp properly
- ③ LED light for abnormal cranking system
- ④ LED light for abnormal charging system
- ⑤ LED light for battery health and cranking/charging system in good condition
- ⑥ LED light of low battery life
- ⑦ LED light of bad battery
- ⑧ "Back" key
- ⑨ "Up" key
- ⑩ "Down" key
- ⑪ "OK" key
- ⑫ Alligator Clip (Red and black)



## DISPLAY & MEANING

- |       |                                |
|-------|--------------------------------|
| [BRL] | — Battery Test                 |
| [REG] | — Regular Battery              |
| [AGM] | — AGM Battery                  |
| [CRH] | — Cranking System Test         |
| [CHR] | — Charging System Test         |
| [SEH] | — Wait for the engine to start |

## BATTERY TEST

1. Keep the engine off, and the battery fully charged before test. If the battery power is poor, please charge it and test again.
2. When connecting the red clip of the tester to the positive pole (+) of the battery and the black clip to the negative pole (-) of the battery, the screen displays the battery voltage value.
  - ※ If the ① "LOW VOLTAGE" light is on, it means the battery voltage is low, please charge it as soon as possible.
  - ※ If the ② "CLAMPS" light is on, it means the alligator pliers are not properly clamped, please reconnect.
3. Press any key, the screen shows [BRL].
4. Press the ⑪ "OK" key to enter the battery test function.

• 1 •

• 2 •

• 3 •

• 4 •

• 5 •