

# ArtiBattery201 Quick Start Guide

Thank you for purchasing our battery conductance tester, please read this manual carefully and save it for reference before using!

Battery Conductance Tester ArtiBattery201 adopts currently the world's most advanced conductance testing technology 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 problem quickly and accurately, thus to achieve quick vehicle repair.

100-2000

100-2000

100-2000

26A17--245H52

100-1400

100-1400

100-2000

100-2000

30Ah-220Ah

### roduct specification:

1. One year warranty and lifetime maintenance

SAE

GB

4 Vorking Environment Temp: -20°C -50°C

Measure Range: 30Ah-220Ah

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Voltage Measure Range: 7-30VDC

Special test clip: Double conductor Kelvin clamp

Housing Material : Acid-resistant ABS plastic

- Application: 12V automotive cranking lead acid battery and 12v/24v car system test
- Measure Range:

## (1) Battery Test

Select the battery test and press OK key to continue:

Input testing standard: the standard which you can see the front of the battery, such as CCA \ BCI \ DIN. If you can't find any info about the standard, you can choose GB standard. Choose GB standards would lead little tolerance.
 Input rated capacity: you can see the starting current standards in

• Battery Type: select your battery type, usually is "Regular Flooded"

1. Connect the red test clamp with battery anode and the black one

2. According to the tester, you can press UP/DOWN key to choose:

with cathode, the tester will power on automatically. Voltage battery

below 7.0VDC can't be tested properly, then press OK key to

- front of the battery. Such as BCI/300A.
- Then press OK key to start testing.

How to use:

① Battery Test

2 Cranking Test

③ Charging Test

4 Review Data

⑤ Print Data

⑥ Export Data

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For power loss battery (such as a vehicle for a long time on hold, the battery is not charged in time; forget to close the lights, the doors resulting in serious loss of battery electric vehicle and can not be started, etc.), in the actual testing process may also be prompted to "Please replace the battery," for such batteries, please consult the battery manufacturers, and then tested.

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## (2 )Cranking Test

After entering the second start system test function, the press OK key as following:

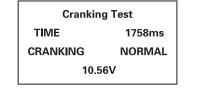
## Cranking Test START ENGINE

Starting the engine as prompted, tester will automatically complete the cranking test and display the result.

Cranking Test
RPM DETECTED

Normally, cranking voltage value lower than 9.6V is regarded as abnormal and it is OK if it is higher than 9.6V.

Test result of the tester includes actual cranking voltage and actual cranking time.



When cranking test is abnormal, battery test result will also be displayed at the same time.

Cranking Test	
TIME	1020ms
CRANKING	LOW
9.12V	

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This is for the convenience of the maintenance personnel to quickly know the whole state of the starting system according to the data. If the engine starting can't be detected, there may be no output of charging voltage, you need to check the generator.

## (3) Charging Test

When enter the charging test, tester will prompt "Loaded testing"

Charging Test
LOADED TESTING

Note: Do not shut down the engine during the test. All electrical appliance and device are in OFF state. Turn on/off any electrical appliance in the vehicle during the test will affect the accuracy of the test result.

Operate accordingly to increase the engine rotating speed to 2500turns, and keep for 5 seconds.

Charging Test
Increase RPM to 2500
r/min and keep it 5 seconds.
Press ENTER to continue.

Tester starts the charging volt test after increase rev detected.

Charging Test
TESTING
\*\*\*\*\*\*\*\*\*\*\*

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After the test finished, tester displays the effective charging volts, ripple test result and charging test result.

# Charging Test Loaded 13.97V Unload 14.23V Ripple 15mV CHARGING NORMAL

Check the connection between generator and battery, then retest.

## Charging Test Result:

- Charging Volt: Normal. The generator output normal, no problem detected.
- Charging Volt: Low. Check drive belt of the generator whether slip or running off. Check the connection between generator and battery is normal or not. If both of the drive belt and the connection are in good condition, follow the manufacturer's suggestion to eliminate generator fault.
- 3. Charging Volt: High. Since most of the vehicle generators are using internal regulator, the generator assembly has to be replaced. (Some old style cars are using external regulator, then directly replace the regulator.) The normal high volt of the voltage regulator is maximum 14.7±0.5V.If charging volt is too high, it will overcharge the battery. Therefore, the battery life will be shortened and troubles will be caused.
- No Volt Output. No generator volt output is detected. Check the generator connection cable, the drive belt of generator and engine whether normal or not.

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Diode Test: Through the test of charging current ripple, tester will find out whether the diode is normal or not. When ripple volt is too high, it proves at least one diode is damaged. Check and replace the diode.

#### (4) Review Data

After entering the forth function, then press OK key you can view the final test result.

## (5) Print Data

Print the last test result by the printer of this battery tester.

#### (6) Export Data

Connect this battery tester to computer with Data Line and export the data to computer. (Connect our company to get the latest software)

## Additional Function:

Press "Menu" to enter additional function:

1. LANGUAGE:

## Mainland Version:

Traditional Chinese, Japanese, Korean, Russian, English

## Nordic Language version: English, Dutch, Sweden, Finnish, Norwegian, Danish

Western European language version:
 English, French, German, Spanish, Italian, Polish

#### 2. Time adjustment

Adjust system time.

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规格: 100x140mm 128g铜版纸 单色印刷 折页