

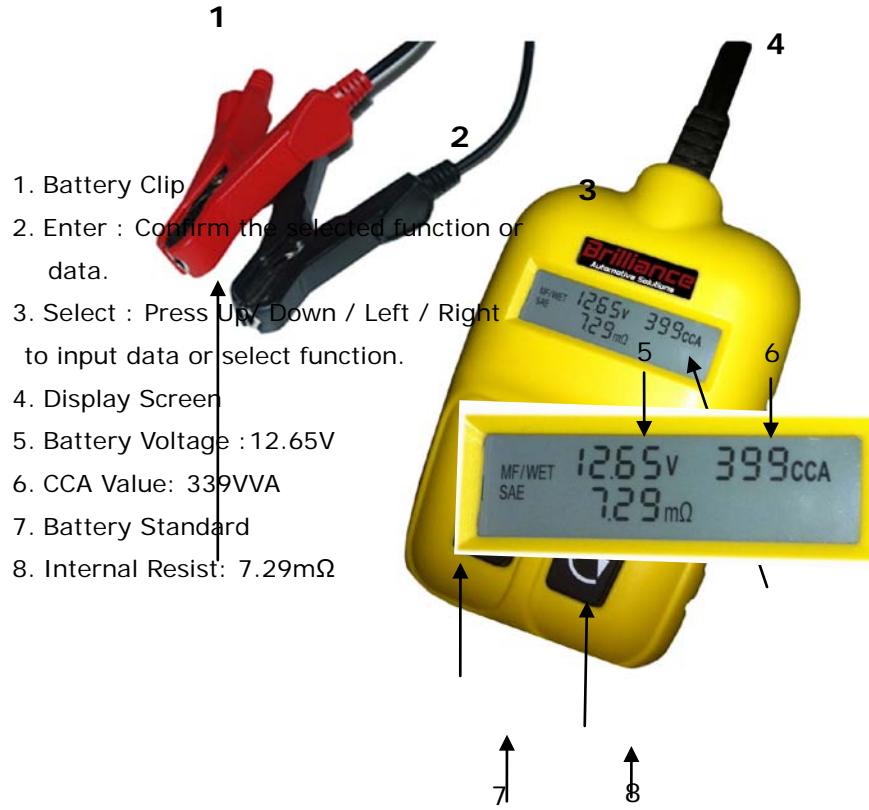
Automotive Battery Analyzer

User's Manual

Notice

- This machine is for 12V vehicle battery only.
- Please don't store the machine in high temp. or humidity place. It'll damage the machine.
- The working voltage range is 9V~15V DC, don't operate on a series battery(24V).
- Please operate after turn on the headlight 3~5 minutes to clean the surface voltage when the battery was just full recharged.

I. Graphic Instructions



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II. Battery Voltage Explanation

Charged	100%	Above 12.70V
	75%	12.55V
	50%	12.30V
	25%	12.15V

Discharged below 11.90V

III. Battery Internal Resist Explanation

IR is an important indicator for judging battery capability. When internal

resist exceed a special value, the engine can't be started. The normal IR Value of cars should be under $10m\Omega$, and that of motorcycle should be Under $15m\Omega$. But there will be a little differences between different Batteries. **And greater CCA with minor resist**

IV. Cold Cranking Amp Explanation

CCA is the amount of current a battery can provide at 0°F (-18°C).

Normally, batteries have a special value specifications, if you don't know This value, please calculate according to following computing formula:

$$\text{CCA} = \text{AH} * 7$$

Normally, the test result of CCA value should be larger than or the same as the value indicates in the battery. If it is smaller than this value, it means the battery is lack of cold cranking capability.

V. Preparation Work for Testing

1. Please turn off the engine before testing

2. Due to the battery fully charged after driving a while, the voltage will be higher than the normal value. So need to turn off the engine and wait for 2 or 3 minutes till the voltage value is normal.

VI. Operation Methods

1. Connect red clip to the positive(+) of the battery, and the black clip to the negative of the battery.

2. Operating under the instruction displayed on the screen, selecting the battery type by pressing SELECT button, then press ENTER

NOTE: Most of the batteries are MF

3. Selecting battery standard by pressing SELECT , then press ENTER.

4. Read voltage, CCA, internal voltage from the display. And see the battery voltage status from the status bar on the right side of the screen.

Note: the fuller status bar is, the more battery voltage discharged, and the higher CCA & A, but the internal resist will be smaller. CCA and internal resist are in inverse proportion.