

5. Press the **9** "Up" or **10** "Down" keys to select the battery type, press the **11** "OK" key to continue.

[FCtrl] — Regular Battery

※ Most car batteries are regular batteries.

[FCtrl] — AGM Battery

※ There will be an obvious "AGM" word on the shell of AGM battery. If the battery to be tested is an EFB or GEL battery, also select **[FCtrl]**.

6. Press the **9** "Up" or **10** "Down" key to select battery standard: CCA, BCI, CA, MCA, JIS, DIN, IEC, EN, SAE or GB. Press **11** "OK" key to continue.

※ Battery standard is marked on the battery shell, and it is usually near the model or capacity.


7. When the screen shows a number, press the **9** "Up" or **10** "Down" key to input the rating of CCA.

※ The CCA rating value can be found on the shell of the battery, and it usually appears together with the battery standard.

8. Press the **11** "OK" key to start the test. After a few seconds, the screen displays the battery standard and CCA value alternately, at the same time, indicators will light up.

The LED lights descriptions as follows:

5  **Green LED light on:** Good Battery.

6  **Yellow LED light on:** The battery life is lower, so it is recommended to replace it.

7  **Red LED light on:** Bad battery, please replace it immediately.

9. To continue the test, press the **8** "Back" key or reconnect the battery.

STARTING SYSTEM TEST

1. Ensure the engine is off, and turn off all electrical equipment, such as headlights, air conditioner, radio, etc.

2. Connect the device to the battery, connect the red alligator clip to the positive pole, and the black alligator clip to the negative pole. While press the **9** "Up" or **10** "Down" key, **[F-H]** shows up on the screen.

3. Press the **11** "OK" key to test starting system. Then **[SEF]** shows up on the screen, it means the device is waiting for the engine to start.

4. Start the engine, then the device will automatically go to test. After a while, the screen displays the starting voltage value, and the LED light is on at the same time.

5  **The green LED light on:** Starting system is normal.

3  **The red LED light on:** Starting system is abnormal and difficult to start.

※ When **[SEF]** shows up on the screen, the system is waiting for the engine to start. Cannot exit at this time. If need to exit, please force to disconnect the device from the battery.

CHARGING SYSTEM TEST

1. Please keep the vehicle stationary and the engine idling. Turn on as many electrical equipment as possible, such as headlights, maximum air volume of conditioner, glass heating, etc.


2. For connecting the device to the battery, connect the red alligator clip to the positive pole, and black clip to the negative pole. Press the **9** "Up" or **10** "Down" key, **[F-H]** shows up on the screen.

3. Press the **11** "OK" key to test the charging system, a progress bar of about 8 seconds appears on the screen, and the device will test the output of the generator with high load at this time.

4. Run up the engine to 2500 rpm and turn off all electrical equipment such as lights, air conditioners, etc. within 8 seconds. The device will test the output of the charging system in the no-load state.

5. At the end of the test, the screen alternately displays the limit voltage value of the high load and unload, while LED light will be on.

5  **The green LED light on:** charging system is normal.

4  **The red LED light on:** charging system is abnormal, generator output voltage may be higher, lower or no output.

FAQ AND SOLUTION

Phenomenon 1: The screen shows .00 or nothing.

Solution: Please reconnect the alligator pliers, make sure that both clips are in contact with the battery pile head well, and the positive and negative poles are not reversed.

Phenomenon 2: No display.

Solution: The battery voltage is too low, please charge it before testing.

Phenomenon 3: Inaccurate test results.

Solution:
1. Try to clamp the alligator clip on the battery pile head directly. The adapter on the battery pile head will slightly affect the test result.

2. If the battery temperature is too low, the test result will be smaller. Ensure the battery is above 0°C (32°F) when test.

Phenomenon 4: The battery test result is bad battery, but the engine can still be started.

Solution:
If the test result is bad battery, it means that the test result is too far from the factory rated value, and there is a risk of breaking down at any time. Even if the engine can still be started, it is recommended to replace it immediately.

Phenomenon 5: **[SEF]** shows up on the screen and cannot exit by pressing any key.

Solution:
When **[SEF]** appears on the screen, the device is waiting for the engine to start. You cannot exit at this time. If you have to exit, please force to disconnect the device from the battery.