



54040



(ES)	COMPROBADOR DE BATERÍA CON IMPRESORA	2
(EN)	BATTERY TESTER WITH PRINTER	5
(FR)	APPAREIL DE TEST AVEC FONCTION D'IMPRESSION.	8
(DE)	TESTGERÄT MIT DRUCKFUNKTION	11
(IT)	APPARECCHIO DI PROVA CON FUNZIONE DI STAMPA	14
(PT)	DISPOSITIVO DE TESTE COM FUNÇÃO DE IMPRESSÃO	17
(RO)	DISPOZITIV DE TESTARE CU FUNCȚIE DE IMPRIMARE	20
(NL)	TESTAPPARAAT MET AFDRUKFUNCTIE.	23
(HU)	TESZTELŐ ESZKÖZ NYOMTATÁSI FUNKCIÓVAL	26
(RU)	ПРИБОР ДЛЯ ИСПЫТАНИЙ С ФУНКЦИЕЙ ПЕЧАТИ	29
(PL)	PRZYRZĄD DO TESTOWANIA Z FUNKCJĄ DRUKOWANIA	32

Battery Test

Select the battery test and press OK key to continue:

- Battery Type: select your battery type, usually is "Regular Flooded".
- Input testing standard: the standard which you can see the front of the battery, such as CCA, BCI,DIN. If you cannot find any information about the standard, you can choose GB standard. Choosing GB standards would lead to a small tolerance.
- Input rated capacity: you can see the starting current standards in front of the battery, such as BCI/300A.
- Then press OK key to start testing.

NOTE: For battery power loss (such as a vehicle for a long time in standby, the battery is not charged in time, forget to close the lights, doors create serious losses of electric vehicle battery and cannot start, etc.), in the actual test process can also be asked to replace the battery. For this type of batteries, please consult the battery manufacturers.

Cranking Test

After entering the second start system test function, press OK key.	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 below 9.6V is considered abnormal, and above 9.6V is all right. The test result of the tester includes the actual cranking voltage and actual cranking time.	Cranking Test TIME 1758ms CRANKING NORMAL 10.56V
When cranking test is abnormal, battery test result shall also be displayed at the same time.	Cranking Test TIME 1020ms CRANKING LOW 9.12V

NOTE: 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 cannot be detected, there may be no output of charging voltage, you need to check the generator.

Charging Test

When entering the Charging Test, the tester will indicate "Charging Test".	Charging Test LOADED TESTING *****
<i>NOTE: Do not switch off the engine during the test. All electrical appliances and devices are in the OFF state. Turning ON or OFF any electrical device on the vehicle during the test will affect the accuracy of the test result.</i>	
Act accordingly to increase the rotational speed of the engine to 2500 revolutions, and hold for 5 seconds.	Charging Test Increase RPM to 2500 r/min and keep it 5 seconds. Press ENTER to continue.
The tester starts the charging voltage test after detecting the increase of revolutions.	Charging Test TESTING *****
When the test is completed, the tester displays the effective charging volts, the result of the ripple test and the result of the charging test. Finally, check the connection between generator and battery, then retest.	Charging Test Loaded 13.97V Unload 14.23V Ripple 15mV CHARGING NORMAL

Charging Test Result

1. Charging voltage: Normal. Generator output is normal, no problem detected.
2. Charging voltage: Low. Check if the generator drive belt slips or shifts. Check whether the connection between the generator and the battery is normal or not. If both the drive belt and connection are in good condition, follow the manufacturer's suggestions to eliminate the generator fault.
3. Charging voltage: High. Since most vehicle generators use an internal regulator, the generator assembly must be replaced (some older style cars are using an external regulator, then replace the regulator directly). The normal voltage of the voltage regulator is a maximum of $14.7 \pm 0.5V$. If the charging voltage is too high, it will overcharge the battery. Therefore, the battery life will be shortened, and problems will be caused.
4. No volt output: No volt output from the generator is detected. Check generator connection cable, generator drive belt and engine if normal or not.
5. Diode test: Through the charging current ripple test, the tester will find out whether the diode is normal or not. When the ripple voltage is too high, it shows that at least one diode is damaged. Check and replace the diode.

Review Data

After entering the fourth function, press the OK key to view the final test result.

Print Data

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

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).

PAPER REPLACEMENT

1. Open the clear cover.
2. Insert replaced paper roll into the paper feeding for auto running the paper into the printer.
3. Pull the paper slowly and straightly from the paper roll in the chamber.

ADDITIONAL FUNCTIONS

Press "Menu" to enter the additional function:

- Language:
 - Mainland Version: Traditional Chinese, Japanese, Korean, Russian and English
 - Nordic Language Version: English, Dutch, Sweden, Finnish, Norwegian and Danish
 - Western European Language Version: English, French, German, Spanish, Italian and Polish
- Time adjustment: adjust any time.

