

BST-380 Battery Tester with Printer



Overview

It is applicable for automotive manufacturers, automotive maintenance and repair workshops, automotive battery factories, automotive battery distributors, and educational organizations, etc.

BST-380 Battery Tester 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.

1. Test all automotive cranking lead acid battery, including ordinary lead acid battery, AGM flat plate battery, AGM spiral battery, and Gel battery, etc.
2. Directly detect bad cell battery.
3. Polarity reverse connection protection, reverse connection will not damage the tester or affect the vehicle and battery.
4. Directly test the battery with loss of electricity, no need to full charge before testing.
5. Testing standards include currently the world's majority of battery standards, CCA, BCI, CA, MCA, JIS, DIN, IEC, EN, SAE, GB.
6. Support multi-languages, customer can select different language package, which includes: Chinese Simple, Chinese Traditional, English, Japanese, Russian, Spanish, French, Italian, German, etc. Other languages can also be customized according to user's need.
7. With common additional functions, such as voltmeter, ammeter, thermometer, even as standby power for ECU.
8. Store 100 groups of test data for check and print.

Function

- 1) Main functions of BST-380 battery tester include: battery test, cranking test, charging test and other additional functions.
- 2) Battery test is mainly targeted to analyze the battery healthy status to calculate the actual cold cranking capability of the battery and the aging extent, which provide reliable analysis evidence for the test and maintenance of the battery. It notifies the user to replace battery in advance when the battery is getting aged.
- 3) Cranking test is mainly to test and analyze the starting motor. Through testing the actual required cranking current and cranking voltage of the starting motor, it can find out whether the starting motor works fine. There are several reasons why the starting motor is abnormal: lubricating system fault causing the starting loaded torque increasing or rotor friction of the starting motor causing the increasing friction of the starting motor itself.
- 4) Charging test is to check and analyze the charging system, including generator, rectifier, rectifier diode, etc., thus to find out whether the output voltage of the generator is normal, the rectifier diode works fine and the charging current is normal. Suppose one of the above mentioned parts is not in normal situation, it will lead to over charge or incomplete charge of the battery, thus the battery will be quickly damaged and also greatly shorten the using life of other loaded electrical appliance.
- 5) Additional functions include:
View test result, print test result, voltmeter, ammeter, thermometer and temperature compensation, thermometer unit choice, QC mode, client code setting, set language, set date and time format, date and time adjustment, set user info, screen light adjustment, set printer definition, standby power function.

Battery System Analyzers and Tools

Specifications

- 1) Cold Cranking Amps Measure Range:

Measure Standard	Measure Range
CCA	100-2000
BCI	100-2000
CA	100-2000
MCA	100-2000
JIS	26A17--245H52
DIN	100-1400
IEC	100-1400
EN	100-1400
SAE	100-2000
GB	100-1400

- 2) Voltage Measure Range: 1.0-30VDC.
3) Current Measure Range: 0-900A DC/AC.
4) Temperature Measure Range: -18° C - +70° C.

Working Environment Requirement Working Environment Temp.: -20°C-60°C

Note: 1000A clamp is an optional part