

USER MANUAL

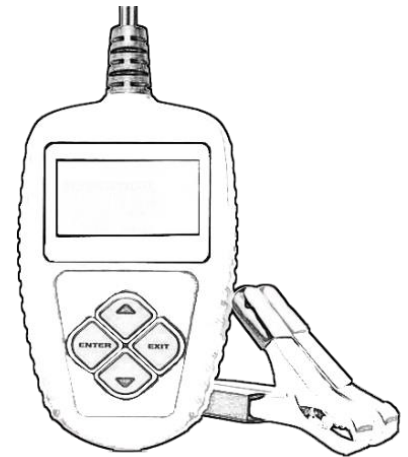
T2 BATTERY TESTER

This Battery Tester uses some of the most advanced testing technology to easily and quickly measure the Cold Cranking Amps and condition of a vehicles starting battery, as well as it's starting and charging systems.

- It is able to test all automotive starting batteries including Lead Acid, AGM flat, AGM spiral, GEL, EFB (Start & Stop) and rechargeable Lithium-Ion. It is also able to detect bad cells in a battery.
- Reverse Polarity protection, reverse polarity connections will not damage the tester, the vehicle or the battery.
- The Battery Tester is able to perform tests covering the majority of battery standards such as, CCA, BCI, CA, MCA, JIS, DIN, IEC, EN, SAE, GB.

1.1 Tool Description

- **Up / Down keys:** Navigate upwards or downwards by pressing the UP and DOWN keys.
- **Exit key:** Exit to the previous menu by pressing the EXIT key.
- **ENTER key:** Confirm the selection by pressing the ENTER key
- **Mini-USB Socket** (on the side): Connect to a computer to print test results.



1.2 Product Specifications

- 1). Display: LCD
- 2). Power—provided by the battery directly
- 3). Dimensions: L: 126 mm (4.9") W: 76 mm (3") H: 28mm (1.1")
- 4). Weight: 200g

Measurable Voltage Range: 9-29V DC

Working Temp.: -10°C - 40°C Storing Temp.: 10°C - 30°C

1.3 Cold Cranking Amps Measure Range:

Lithium Ion Battery:

Standard	Range
CCA	20-1000
BCI	100-2000
CA	20-1000
MCA	20-1000
JIS	26A17—150F51
DIN	20-700
IEC	20-700
EN	20-1000
SAE	20-1000
GB	2-120

Lead Acid Battery:

Standard	Range
CCA	100-2000
BCI	100-2000
CA	100-2000
MCA	100-2000
JIS	26A17--245H52
DIN	100-1400
IEC	100-1400
EN	100-2000
SAE	100-2000
GB	30-220

2.3 Accessories Included

User Manual -- USB cable -- Software CD.

2.4 Product Setup

The Battery Tester can be set up as follows:

- 1) Language: Selects desired language.
- 2) Contrast: Adjusts the contrast of the LCD display.

To enter the system setup menu from the main menu, select System Setup and press ENTER.

System Setup

Language
Contrast
Tool Information

Operations and Tests

After connecting the tester to the battery, it will display the batteries voltage.

The Tester will display the following contents after pressing any key.

3.1 Battery test

Select Battery Type

Please select the battery type according to the battery specifications:

Regular Flooded (WET), Lithium Ion, AGM Flat Plate, AGM Spiral, Gel and EFB

Press the UP/DOWN keys to select battery type and press ENTER to confirm.

Battery System Standard and Rating

The battery tester will test the vehicles battery according to the selected rating.

Use UP/DOWN key to select the actual system standard rating marked on the battery.

Main Menu
1.Battery Test
2.Cranking Test
3.Charging Test
4.Review Data
5. Print
6.System Setup

Battery Type
1.Regular Flooded.
2. Lithium Ion
3. AGM Flat Plate.
4.AGM spiral
5.GEL
6.EFB

CCA: Cold Cranking Amps, specified by SAE&BCI, most frequently used value for starting battery at 0°F (-18°C).

BCI: Battery Council International standard

CA: Cranking Amps standard, effective starting current value at 0°C

MCA: Marine Cranking Amps standard, effective starting current value at 0°C.

JIS: Japan Industrial Standard, displayed on the battery as combination of the numbers and letters, e.g. 55D23,80D26.

DIN: German Auto Industry Committee Standard

IEC: Internal Electro technical Commission Standard

EN: European Automobile Industry Association Standard

SAE: Society of Automotive Engineers Standard

GB: China National Standard

Setting Rate
500
CCA

It takes around 3-5 seconds to display the battery test results. Please see the examples below.

Health:96%	490CCA
Charge:98%	12.64V
Internal R=6.1mΩ	
Rated: 500A	
GOOD BATTERY	

Health:78%	440CCA
Charge:30%	12.20V
Internal R=7.2mΩ	
Rated: 500A	
GOOD, BUT RECHARGE	

Health:46%	490CCA
Charge:80%	12.68V
Internal R=18.1mΩ	
Rated: 500A	
REPLACE	

Health:39%	310CCA
Charge:20%	12.08V
Internal R=30.1mΩ	
Rated: 500A	
CHARGE & RETEST	

Health:0%	0CCA
Charge:20%	10.64V
Internal R=45.2mΩ	
Rated: 500A	
BAD CELL, REPLACE	

3.2. Cranking Test

Cranking Test
Start Engine

Cranking Test
RPM Detected

Cranking Test	
Time	780ms
Cranking	Normal
	10.13V

3.3 Charging System

Charging Test
Loaded Testing ****

Increase RPM to
2500 r/min,
(maintain for 5 seconds)
Press ENTER to continue.

Charging Test
Testing ****

Charging Test	
Loaded	14.16V
Unloaded	14.39V
Replace	15mV
Charging	Normal

3.4 Review Data

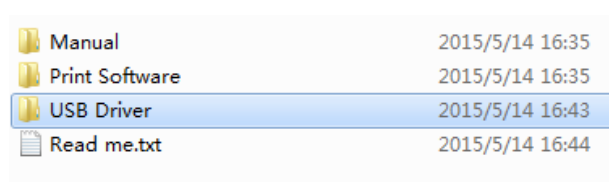
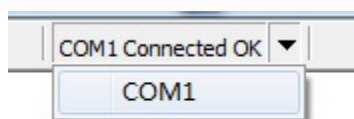
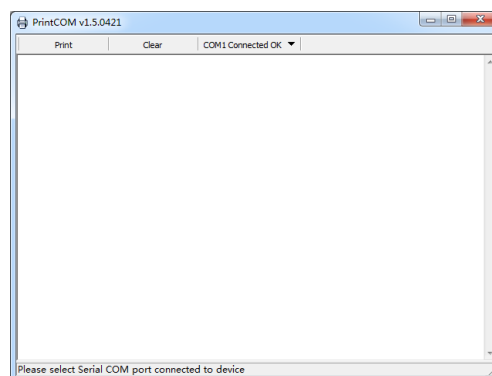
Choose the "Review Data" function to review your last test

Health:96%	490CCA
Charge:98%	12.64V
Internal R=6.1mΩ	
Rated: 500A	
GOOD BATTERY	

3.5 Print Data

Choose the "Print" function data and press ENTER.

Before choosing the print data function, it is necessary to install the software on your computer and then to connect the Battery Tester via the USB cable. Once the software is installed, open the Print software and Choose the COM Port NO:



If there are incomplete print tasks in the queue please clear them before proceeding.
You can now print the test results.

Limited Warranty

The warranty of this unit depends on the conditions granted by your retailer. The manufacturer shall have no liability whatsoever at any time for any warranty, personal injury or property damage. Transport is never included. Please dispose of the packaging in a responsible manner. It should be recycled by your local amenity or placed in appropriate recycling bins. Never dispose of electrical equipment or batteries in your domestic waste. Have them recycled by your retailer or your local amenity.