1.1 Tool Description
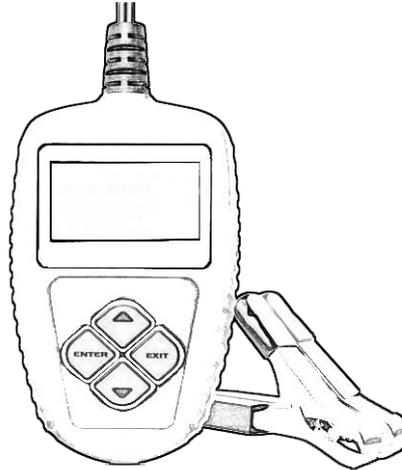
Up / Down keys: Select upwards or downwards via white UP and DOWN keys.

● **Exit key:** Exit to previous menu via blue EXIT key.

● **ENTER key:** Confirm the selection via green ENTER key

● **Mini-USB Socket (in the side of the product):**

Connect to computer for print via USB cable.

1.2 Product Specifications

1). Display: large, 128*64 easy to read LCD, backlit

2). Operating Temperature: 0 to 50°C (32 to 122 F°)

3). Storage Temperature: -20 to 70°C (-4 to 158 F°)

4). Power—provided via vehicle battery(**8-30V DC**)

5). Dimensions:

Length   Width   Height

126 mm (4.9")   76 mm (3")   28mm (1.1")

6). Weight: 200g

1.3 Cold Cranking Amps Measure Range:

Lithium Ion Battery:

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

Regular Flooded ,AGM Gel battery, EFB battery:

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	100-2000
SAE	100-2000
GB	30-220

2.3 Accessories Included

1) User Manual -- Instructions on tool operations

2) USB cable -- Provides link to tool and computer for print..

3). CD--- Print software inside.

2.4 Product Setup

The tool allows you to make the following adjustments and settings:

1) Language: Selects desired language.

2) Contrast adjustment: Adjusts the contrast of the LCD display.

3) Tool information: The tool show the version.

To enter the system setup menu

From main menu, select the System Setup and press ENTER.

System Setup
Language
Contrast
Tool Information

3.   Operation and Test

After connect the tool to vehicle battery, tester displays the tester model , version and batter voltage.

Voltmeter:
12.40V

Tester will display the following contents after press any key.

3.1 Battery test

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

Now the tester detects the surface charge has been eliminated, turn lights off as prompted, then press ENTER key. The tester will recover automatic test

Select Battery Type

After the battery charge status selected, tester will prompt to select battery type, i.e. Regular Flooded, Lithium Ion ,AGM Flat Plate or AGM Spiral, Gel and EFB battery. Press UP/DOWN key to select battery type, then press ENTER key to confirm

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

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BA106

Battery System Standard and Rating

BA106 battery tester will test each battery according to the selected system and rating.

Use UP/DOWN key to select according to the actual system standard and rating marked on the battery. Use UP/DOWN key to select according to the actual system standard and rating marked on the battery. See in the below picture, the arrow indicated location.

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

Select Input
CCA

➡

Setting Rate
500
CCA
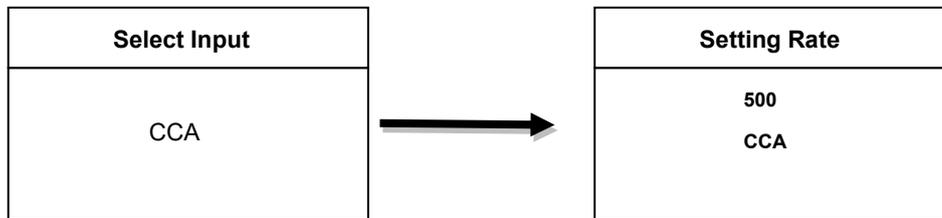
It takes around 3 seconds to display the battery test result.

Battery Test Result

Battery test result includes 5 types as following:

1) Good Battery

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

2) Good, Recharge

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

3) Replace

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

4) Bad Cell, Replace

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

5) Charge, Retest

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

3.2. Cranking Test

Tester prompts as following:

Cranking Test
Start Engine

➡

Cranking Test
RPM Detected

➡

Cranking Test	
Time	780ms
Cranking	Normal
10.13V	

BA
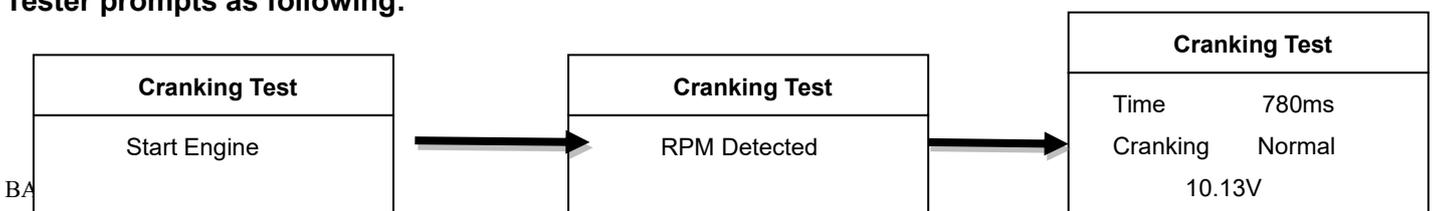
3.3 Charging System

Tester prompts as following:

Charging Test
Loaded Testing
****

→

Increasing RPM to 2500 r/min, keep it 5 seconds. Press ENTER to continue.

→

Charging Test
Testing
****

→

Charging Test	
Loaded	14.16V
Unloaded	14.39V
Replace	15mV
Charging	**Normal**
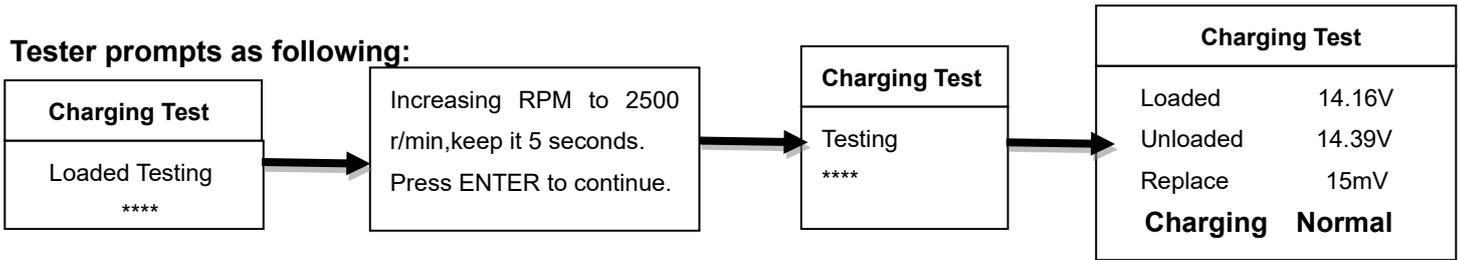
3.4 Review Data

Choose the function of Review Data and review the history of battery testing result

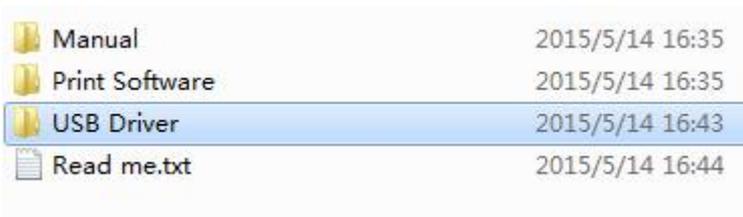| |
|:---|
| Health:96%   490CCA |
| Charge:98%   12.64V |
| Internal R=6.1mΩ |
| Rated: 500A |
| GOOD   BATTERY |

3.5 Print Data

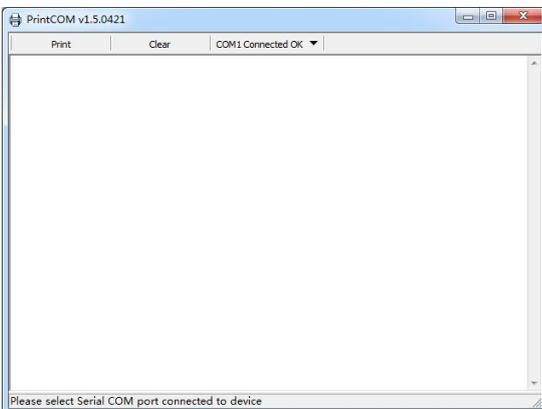Choose the function of Print and press ENTER.

Before choose the print data function, it is necessary to connect the tool to the computer via USB cable.

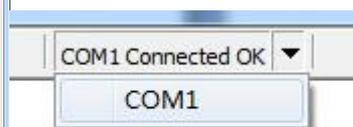Once all are available, please kindly insert the CD to the computer

1.   Install the USB driver firstly.

Manual	2015/5/14 16:35
Print Software	2015/5/14 16:35
USB Driver	2015/5/14 16:43
Read me.txt	2015/5/14 16:44

2.   Then open the Print software   3. Choose the COM Port NO.

PrintCOM v1.5.0421

| Print | Clear | COM1 Connected OK ▼ |

Please select Serial COM port connected to device

COM1 Connected OK ▼
COM1

If there are some data history in print software, please kindly clear them.

4.The Printer of computer will print the testing result via PC

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