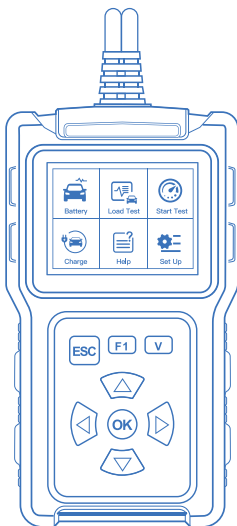




BT300

User's Manual

Battery Tester



12V/24V Universal

Catalogs

Safety Precautions and Warnings	01
Products	02
Product Description	03
Connection Steps	04
Operating Instructions	05
Standard Test	05
Quick Test	06
Batteries For Locomotives	06
Load Test.....	07
Start Test	07
Charge Test	08
Help	09
Shortcut Key.....	09
Set Up	10
Languages	10
Update	10
Warranty And Service	11

Safety Precautions and Warnings

To prevent personal injury or unnecessary damage while using the tool, please read this Owner's Manual carefully first and observe at least the following safety precautions when using the vehicle:

- Always perform automotive testing in a safe environment.
- Do not attempt to operate or observe the tool while driving a vehicle, Operating or observing the tool will cause driver distraction and could cause a fatal accident.
- Wear safety eye protection that meets ANSI standards.
- Keep clothing, hair, hands, tools, test equipment, etc. away from all rotating or hot engine parts.
- Operate the vehicle in a well-ventilated work area. Exhaust gases are poisonous.
- Put blocks in front of the drive wheels and never leave the vehicle unattended while running tests.
- Use extreme caution when working around the ignition coil, distributor cap, ignition wires and spark plugs. These Components create hazardous voltages when the engine is running.
- Put the transmission in P (for A/T) or N(M/T) and make sure the parking brake is engaged.
- Keep a fire extinguisher suitable for gasoline /chemical / electrical fires nearby.
- Don't connect or disconnect any test equipments while the ignition is ON or the engine is running.
- Keep the scan tool dry, clean free from oil/ water or grease. Use a mild detergent on a clean cloth to clean the outside of the scan tool when necessary.
- Our company is not responsible for any damage caused by unintentional or deliberate misuse of our products or tools.

Products

The content of this manual is edited based on the product (BT300_V1.0.11). BT300 battery tester adopts advanced conductivity testing technology, which can conveniently, quickly and accurately measure the actual cold-start current capability of the car starting battery and the health degree of the battery, as well as quickly detect the common faults of the car starting system and charging system, which is conducive to the maintenance personnel to quickly and accurately determine the location of the automobile's faults, and facilitates the rapid repair of the automobile.

Product Features

- Testing is accurate, fast, easy to operate and intuitive display.
- Main functions include: quick test, standard test, starting test, charging test.
- Can test all automotive starter lead-acid batteries, including ordinary lead-acid batteries, AGM flat batteries, AGM spiral batteries and gel batteries.
- Reverse polarity protection, reverse polarity will not damage the tester or affect the vehicle or battery.
- Test standards include most of the current battery standards in the world: CCA, JIS, GB, SAE, MCA, CA, DIN, IEC, EN, BCI.
- Supports multiple language switching, English, Spanish, German, French, Italian, Portuguese, Polish, Simplified Chinese and more, Other languages can also be customized according to user requirements.

Screen Size	2.4-inch TFT color screen (320*240)
Voltage Range	12V/24V Battery
Range CCA	20-2000 CCA
Battery Range	10AH-300AH
Test Standards	CCA、JIS、GB、SAE、MCA、CA、DIN、IEC、EN、BCI

Product Description



- ① Screen – Displays menu and test results
- ② F1 Button – Quickly view the last battery test result.
- ③ V Button – Quickly view the battery voltage
- ④ ESC Button – Exit or return to the previous menu level
- ⑤ OK Button – Executes the selected option
- ⑥ Arrow Button – For moving up and down or flipping through pages
- ⑦ Battery Clip – For connecting positive and negative battery terminals

Connection Steps

Connection Methods

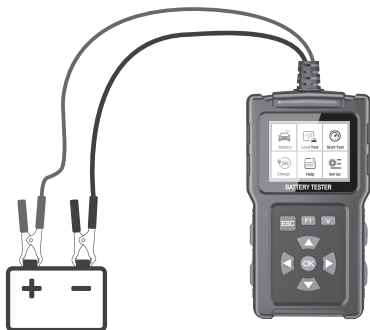
1. Connect the red clip to the positive (+) battery terminal and the black clip to the negative (-) battery terminal, then the unit will automatically power up and be ready to test.

2. If you are testing the battery in a vehicle, do not insert the key or leave it in the OFF position. Make sure all electrical equipment and doors are closed.

Tip: If the battery voltage is below 7V, the device will not work properly.

There are two modes of battery testing quick test and standard test. If the battery type is not known

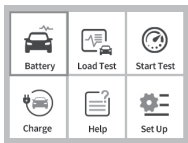
Please select Quick Test (the test value may deviate slightly from the standard test result).



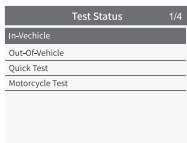
Operating Instructions

Standard Test

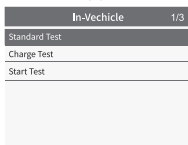
Select [Standard Test] and press OK, choose in-vehicle or out-of-vehicle according to the situation, select the standard test, select the corresponding battery mode according to the type of battery, and operate according to the prompts to analyze the health status of the battery.



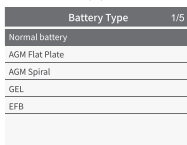
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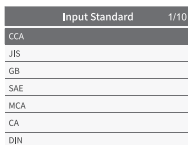
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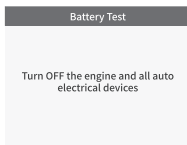
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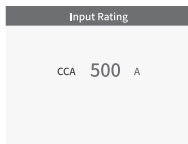
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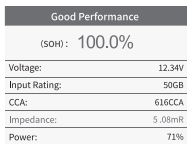
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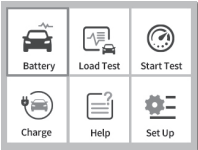
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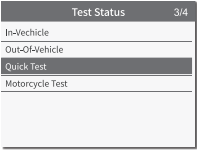
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Quick Test

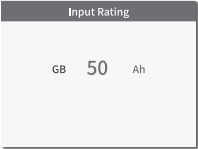
Select [Quick Test] and press OK, according to the prompts, you can quickly test the health status of the battery by pressing OK.



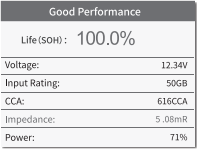
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(11)



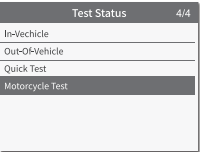
(12)

Batteries For Locomotives

Enter [Motorcycle Test], select [Motorcycle], use the up and down keys to select the corresponding battery parameter, and then press OK to quickly test the battery life of the locomotive, if you can't find the corresponding battery model in the [Motorcycle] option, you can select [Other Categories], and enter the corresponding CCA for testing.



(13)



(14)

Motorcycle Test	1/2
Motorcycle	
Other Categories	

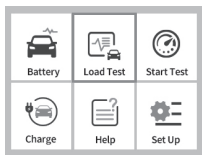
(15)

Testing After Charging	
(SOH):	40.4 %
Voltage:	11.77V
Input Rating:	175CCA
CCA:	84CCA
Impedance:	34.52mR
Power:	32%

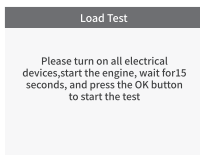
(16)

Load Test

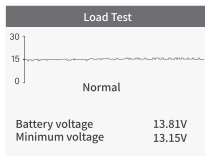
Select [Load Test] and press OK, according to the prompts, you can quickly check the battery voltage status.



(17)



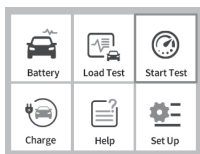
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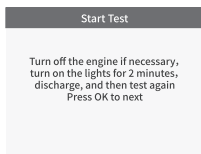
(19)

Start Test

Select [Start Test] and press OK, start the engine according to the prompts, wait for the equipment to analyze after starting, you can view the current battery start test results.



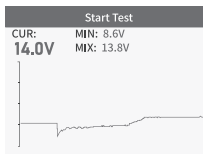
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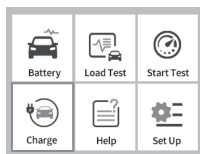
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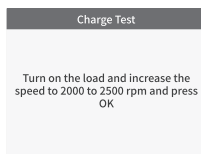
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Charge Test

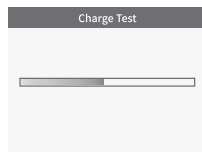
Select [Charge] and press OK, operate according to the prompts and press OK, and you can test the car charging system according to the prompts.



(24)



(25)



(26)

Charge Test	
Charging is normal	
Load voltage:	14.19V
No-load voltage:	14.25V
Ripple:	469.70mV

(27)

Help

Go to [Help], the tester displays the battery table, which can be viewed by pressing the up and down keys to page through.



(28)

Help					1/36
SPECIFICATION			CCA		
MODEL			DIN	EN	
52805	52815		180	240	
53517			175	300	
53520	53521	53522	150	240	
53625	53638	53836	175	300	
53646	53621	88038	175	300	

(29)

Shortcut Key

Press the [F1] key in the main menu screen to quickly view the last battery diagnostic results.

Good performance	
Life (SOH) :	100.0%
Voltage:	12.85V
Input Rating:	500CCA
CCA:	1011CCA
Impedance:	3.03mR
Power:	100%

(30)

Press the [V] key in the main menu screen to quickly view the battery voltage status.

Battery	
CUR:	MIN: 12.9V
13.0V	MIX: 13.0V

(31)

Languages

Select [Set Up] function, press OK button to enter, select [Language] mode, select the desired language, press OK button to confirm.

Set Up	1/3
Languages	
USB update	
Information	

(32)

Languages	1/15
English	
Español	
Deutsch	
Français	
Italiana	
Português	
Polski	

(33)

Update

You can consult with your agent to check the latest software version and ask your dealer for an upgrade tool to complete the upgrade.

Warranty And Service

One Year Warranty

We promises to provide warranty service for 1 year from the date of original purchase, if this product is purchased from an official channel, which must meet the following conditions:

1) The warranty are limited to repairing or replacing new equipment, without additional cost, but need to mention for regular sales invoices or copies of invoices.

2) The warranty does not cover the unauthorized disassembly of this product due to flooding, lightning strikes, or outside repair shops not authorized by the company ,The personnel have repaired it and considered damage caused by improper use.

3) We is not responsible for any damages caused by use, misuse or installation and testing. Some countries limitations on the duration of implied warranties are not allowed, so the above limitations may not apply to you.

4) All information in this manual is based on the latest and effective information at the time of publication, and there is no guarantee of its accuracy or completeness. we reserves the right to make changes at any time without notice.

Service Process

If you have any questions in the process of using this product, please contact your local authorized dealer directly.