

CE FCC RoHS  
MADE IN CHINA

EC

REP

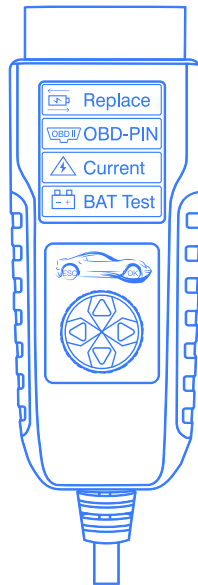
Prolinx GmbH
Brehmstr. 56, 40239 Duesseldorf
Germany

BT400

USER'S MANUAL

4-In-1 Battery Tester

Battery Test + Battery Replacement + OBD Voltage Test + Leakage Test



Catalogs

Safety Precautions And Warnings.....	01
Products.....	02
Product Description.....	03
Connection Methods	04
Operating Instructions	05
Battery Replacement.....	05
OBD Voltage	06
Leakage Detection.....	07
Battery Test.....	09
Charging Test	10
Start Test	11

Set Up	12
Language	12
Update	12
Warranty And Service	13

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 motorbike 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

BT400 is a 12V/24V universal battery tester, built-in high-speed intelligent processing chip, automatic identification of battery voltage, the device adopts advanced conductivity testing technology, can easily, quickly and accurately test the battery health status, starting ability and automotive charging system is normal, and support the leakage detection function, can be saved to detect the current and voltage values, through the playback function to view the data. etc. It is the best choice for you to check the battery health status tool.

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.

Product Functions

- | | | | |
|---------------------|-----------------------|-----------------|-------------------|
| • OBD Voltage Check | • Battery Replacement | • Leakage Check | • Leakage Logging |
| • Battery Test | • Charging Test | • Start Test | |

Product Description



- ① OBD II Connector – Connects the scan tool to the vehicle's data link
- ② Screen – Displays menus and test results
- ③ USB port – For connecting product upgrades
- ④ OK Button – To confirm the desired option
- ⑤ ESC Button – Exits or returns to previous level menu
- ⑥ Arrow Button – For moving up and down or flipping through pages
- ⑦ Battery Clip – For connecting positive and negative battery terminals

Screen Size	1.77-inch TFT color screen (128*160)	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		

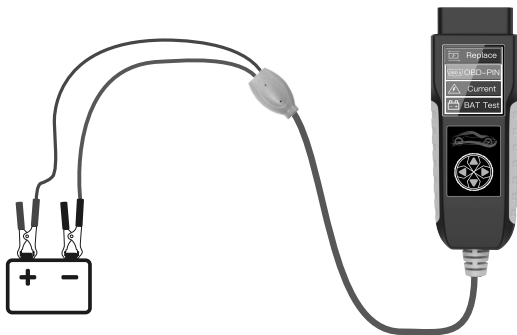
Connection Methods

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.

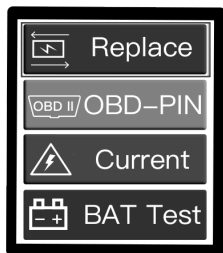
There are two modes of battery testing quick test and standard test. If the battery type is not known Please select Quick Test (the test value may deviate slightly from the standard test result).



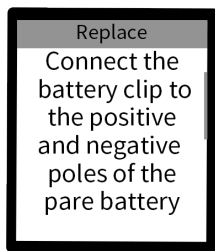
Battery Replacement

Many vehicles in the replacement of the battery will directly remove the car battery, and then install a new battery, this method is very easy to cause a sudden power failure of the vehicle, resulting in some functional components damage, and cause greater losses. At this time the tool can help users in the process of replacing the battery will not be a power failure, to avoid causing unnecessary losses.

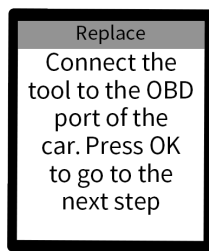
Connect the device clamp to the spare battery correctly, select [Replace], plug the device into the car OBDII, the device will supply power to the car through the OBDII, and you can replace the car battery normally.



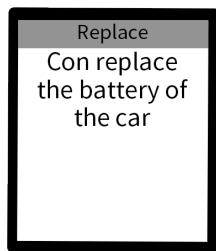
(1)



(2)



(3)

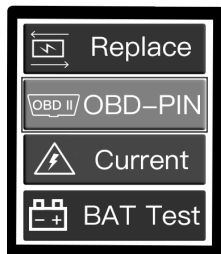


(4)

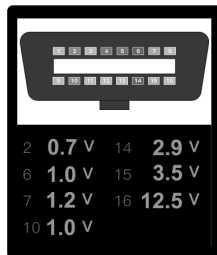
OBD Voltage

When it is not possible to diagnose the vehicle malfunction through OBD II, the OBD voltage function can be used to check whether the voltage of the OBD pins is normal or not, which can help us find the problem quickly.

Plug the device into the car OBDII interface, select [OBD PIN] function, at this time the device will display the voltage status of Bus positive line, CAN-H line, K-line, Bus neative line, CAN-L line, L-line and so on.



(1)

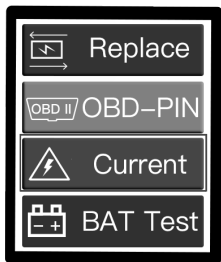


(2)

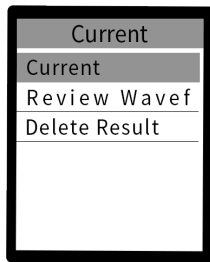
Leakage Detection

Prepare 12V spare battery (12V or 24V according to the actual car's voltage selection), connect the red clip of the device to the positive pole of the spare battery, and the black clip to the negative pole of the spare battery.

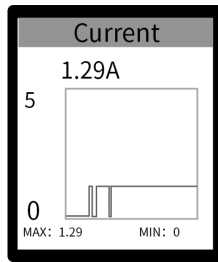
Select [Current] to view the monitoring current interface, plug the device into the car OBD II connector, and then remove the negative connection cable of the original battery, at this time to observe the current monitored by the BT400, If the current is much larger than the car's normal circuit, there is a leakage of the car, at this time, as long as the car in turn to remove the fuse, carefully observe the changes in current, if you find that the current suddenly returned to normal after pulling out a certain to the fuse, it is explained that the fuse line there is a short circuit, very simple and practical.



(1)

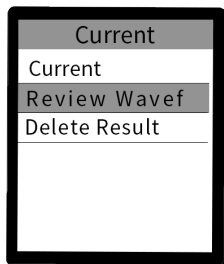


(2)

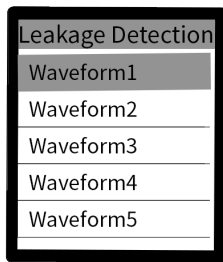


(3)

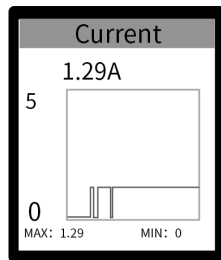
The [Current] function can save 30 minutes of leakage detection data, and the saved data can be viewed through [Review Wavef].



(1)



(2)

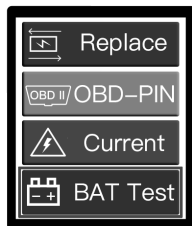


(3)

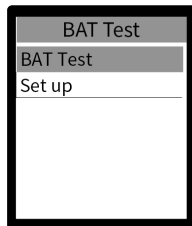
Battery Test

Connect the battery clamps to the battery, (red clamps into the positive terminal, black clamps into the negative terminal) clamps connected to the reverse will not light up the device.

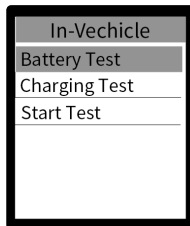
Select [BAT Test] function, press OK button to enter, select the test status according to the actual situation, press OK button to confirm, select [Battery Test] with different test standards such as CCA, JIS, GB, SAE, MCA, CA, DIN, IEC, EN, BCI and so on. Operate according to the screen prompting information to test the battery status.



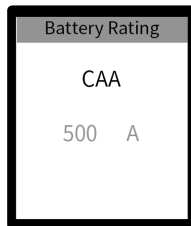
(1)



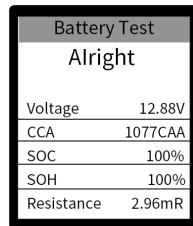
(2)



(3)



(4)

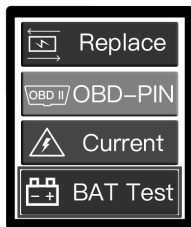


(5)

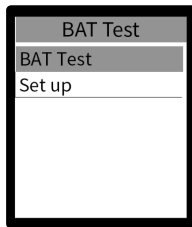
Charging Test

Connect the battery clamps to the battery, (red clamps into the positive terminal, black clamps into the negative terminal) clamps connected to the reverse will not light up the device.

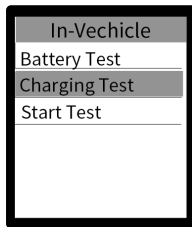
Select the [BAT Test] function, press the OK button to enter, select the test status according to the actual situation, press the OK button to confirm, select [Charging Test] and press the OK button to confirm. And follow the on-screen prompts to detect the battery status.



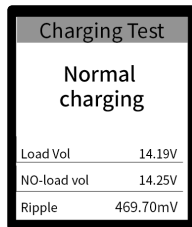
(1)



(2)



(3)

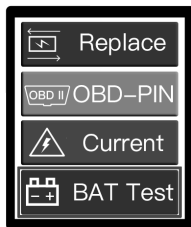


(4)

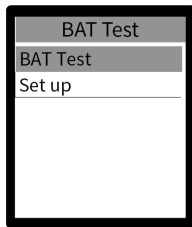
Start Test

Connect the battery clamps to the battery, (red clamps into the positive terminal, black clamps into the negative terminal) clamps connected to the reverse will not light up the device.

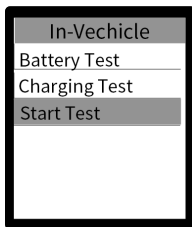
Select the [BAT Test] function, press the OK button to enter, select the test status according to the actual situation, press the OK button to confirm, select [Start Test] and press the OK button to confirm. And follow the on-screen prompts to detect the battery status.



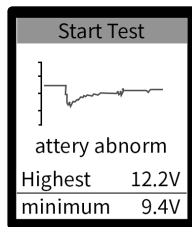
(1)



(2)



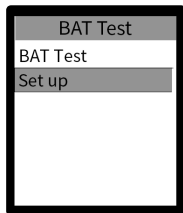
(3)



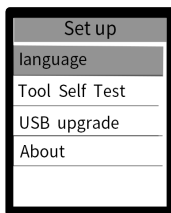
(4)

Language

Select [BAT Test] function, press OK button to enter, select [Set up] mode, select [language] mode, set the language as required and press OK button to confirm.



(1)



(2)



(3)

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.