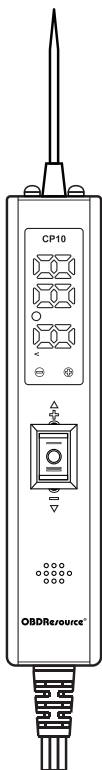


USER MANUAL

Automotive Circuit Tester





Version: A01

STATEMENT: The **OBDRsource®** has full intellectual property rights to the software used in this product. For any act of reverse or cracking the software, the Company will stop the product and reserve the right to pursue the legal liability.

FCC REQUIREMENT

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference.

(2) This device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV

technician for help.

FCC WARNING

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End user must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

The mobile device is designed to meet the requirements for exposure to radio waves established by the Federal Communications Commission (USA). These requirements set a SAR limit of 1.6W/kg averaged over one gram of tissue. The highest SAR value reported under this standard during product certification for use when properly worn on the body is 0.733 W/kg.

For body operation, this device has been tested and meets FCC RF exposure guidelines when used with any accessory that contains no metal and that positions a minimum of 15mm from the body. Use of other accessories may not ensure compliance with FCC RF exposure guidelines.

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This equipment is used by professional technician or maintenance personnel.

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Safety and Caution Please Read

This manual includes instructions for using the equipment and operating methods. To prevent personal injury and damage to the vehicle or diagnostic tool, please read this user manual carefully first and observe the following safety precautions when operating the vehicle:

- Please perform the test only if the surrounding environment is safe.
- Do not attempt to operate or observe tools while operating the vehicle. Operating or observing this tool will distract the driver and could result in a fatal accident.
- Keep clothing, hair, hands, tools, test equipment, etc. away from all moving or hot engine parts.
- If the instrument is faulty (for example, if it is found to be damaged, deformed, leaking material, incomplete display, etc.), it cannot be used further.
- Wear safety goggles that meet ANSI standards.
- Place blocks in front of the drive wheels and never leave the vehicle stationary while performing the test.
- Operate your vehicle in a well-ventilated work area as exhaust fumes are toxic.
- Due to different product editions, some descriptions, icons, and icon interpretations in the manual will be slightly different. Please note hereby.

1. Product Description

CP10 automotive electrical system activator is suitable for 0V - 80V automotive power circuit diagnosis. This product is compact in design and powerful in function. It has reverse connection and overload protection. The tool probe can be used to test conductivity and positive and negative level detection, activate components and other functions, can quickly detect short circuits and broken wires in vehicle electrical system components. It helps users understand vehicle problems faster and more accurately. It is an efficient and advanced testing tool that can greatly improve users' work efficiency.

Functions: Voltage Test/ Component Activation/ Continuity Test/ Ground detection /Tracking and Locating Short Circuit/ Positive and Negative Detection.

1. 1 Panel Explanation

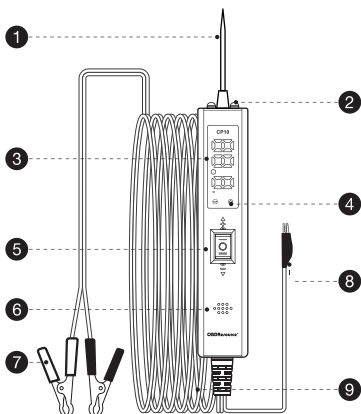


Figure 1

- ① Probe: A contact wire or component used for testing.
- ② LED Light: Provides lighting in dark areas or at night.
- ③ Display: Displays measured values.
- ④ LED Indicator Light: used to display test results.
- ⑤ Power Switch: Used to activate and test the functionality of electrical components guided by positive and negative current probes.
- ⑥ Buzzer: A beep sounds based on the test results.
- ⑦ Battery Clip: Connect the battery to power the device.
- ⑧ Ground Clamp: Ground wire auxiliary test function.
- ⑨ Main Cable: 5m main cable.

1. 2 Parameter Information

Project	Describe
Display	LED Screen
Input Voltage	8V ~ 32V
Test Voltage	0V ~ 80V
Working Current	80mA
Activation Current	0V ~ 8A
Operating Temperature	0°C~60°C (32°F~140°F)
Storage Temperature	-40°C~70°C (-40°F~158°F)

2. Product Features

2.1 Quick Self-test

Before you start testing a circuit or component, please confirm that your device is in good condition by performing a self-test. This product is powered by the external battery or car battery.

Attach the red clip to battery's positive terminal and the black clip to battery's negative terminal.

Press the switch forward to activate the positive voltage probe, the red LED lights up with the voltage value display in screen, release the switch and the red LED goes off. Then press the power switch backward to activate the negative voltage probe, the green LED lights up, release the switch the green LED goes off.

The device will work properly after the test process.

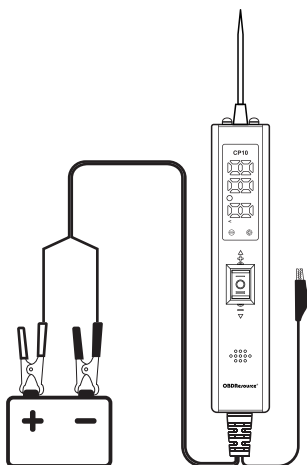


Figure 2

2. 2 Product Usage

2. 2-1 Positive and Negative Test

When the device is connected to vehicle power, the front LED lights will power on as shown in Figure 3.

When the probe contacts the positive circuit, the red LED will light up while the voltage value displayed on screens shown in Figure 4.

If the probe contacts the negative circuit, the green LED will light up while the buzzer sounds (screen voltage shows 0.0v) as shown in Figure 5.

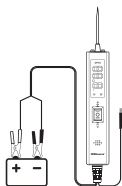


Figure 3

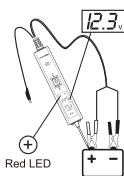


Figure 4



Figure 5

2. 2-2 Component Activation

The activation function can be used to activate components such as the starter fuel pump, solenoid valve, blower, cooling fan, headlights, etc.

Connect the ground auxiliary clamp to the negative terminal of the testing part, connect the probe contact to the positive terminal of the testing part, then press the positive activation button (+), the probe will output the positive voltage while with the voltage value displayed on the screen, the red LED will light up, then the testing part will be activated (Figure 6).

The probe can output positive and negative voltages. Press the (+) button and the probe will output positive voltage, the Red LED will light up while the voltage value displayed on the screen. Press the (—) button and the probe will output negative voltage. The green LED will light up and the buzzer sounds. The maximum activated output current is 8A. Equipment exceeding 8A will activate the trip protection function and the equipment will trip.

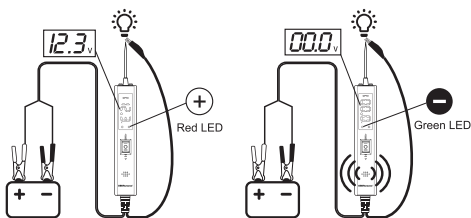


Figure 6

2. 2-3 Continuity Test

By using the probe tip and auxiliary ground wire. Continuity testing can be performed on wires and components that are disconnected from the vehicle's electrical system. If the continuity test passed, the green LED will light up.(Figure 7).

NOTE: Do not press the activation switch during the continuity test.

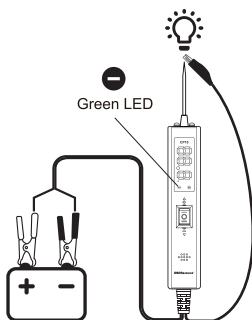


Figure 7

2. 2-4 Ground Detection

Use the probe to make contact with the negative terminal of the component and the device green LED will light up when the ground test passed (Figure 8).

NOTE: Do not press the activation switch during ground detection.

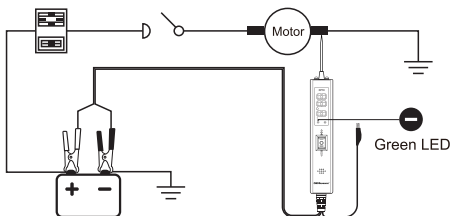


Figure 8

2. 2-5 Test Trailer Lights and Connectors

Connect the device to the battery, clamp the auxiliary ground wire's clip to the trailer ground,

connect the probe to the socket of the trailer connector, as shown in (Figure 9), Then press the (+) button to test the function and direction of the trailer lights.

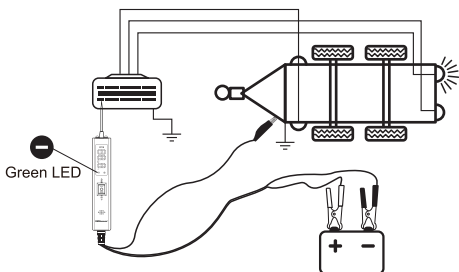


Figure 9

2. 2-6 Jumper Function

The black clip and the auxiliary ground wire are directly connected through the device, the red clip is disconnected from the vehicle battery, and the device can be used as a long jumper, such as (Figure 10).

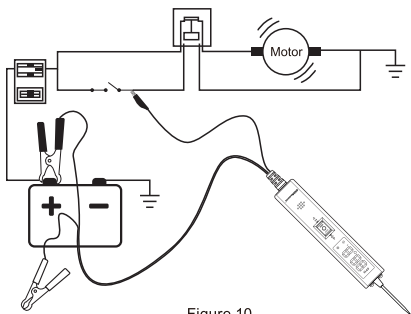


Figure 10

Please take care to avoid short circuits and overloads, the jumper function is not protected by the unit's circuit breaker.

2. 2-7 Trace and Locate Short Circuits

In most cases, a short circuit will manifest itself as a tripped fuse or electrical protective device (such as a tripped circuit breaker). Follow these steps to trace and locate a short circuit:

Trace the wire harness by removing the blown fuse from the fuse box, touching each fuse contact with a probe, noting the number or color of the wire, and following the wire as far as possible.

If you are tracing a brake light short, you must first go through the threshold of the wire, find the color or number of the wire and label it

If you are tracing a brake light short, you first have to go through the wires. If the device shows green LED, that means the wires are shorted, so cut the wires carefully and touch each end of the wire with a probe. Follow the wire to the correct location. Repeat this step toward the short circuit until you find the exact location of the short circuit. Threshold the wire, find the color or number of the wire and mark it.

3. Warranty and Service

Hello! Thank you for purchasing our product. In order to better serve you, please read this warranty card carefully, fill it out correctly and save it.

Name			
Telephone			
Email			
Purchase Date		Product Number	
Order Number			
Shipping Address			
Maintenance Records	Date	Failure Causes and Solutions	

※ Warranty Statement:

If the product requires warranty due to quality problems, please send it back to us together with this warranty card.

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