

TopDiag[®]

JDiag Electronics Technology Co.,Ltd.

Email: info@jdiagtool.com

Tel: +86-755-21005135

Web: www.jdiagtool.com

Add: 3rd Floor, B2, Jindida Science Park, Langkou Community,
Dalang Street, Longhua District, Shenzhen, China

Made In China



EC

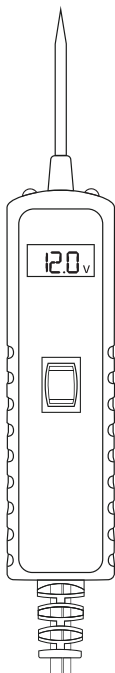
REP

Prolinx GmbH
Brehmstr. 56, 40239 Düsseldorf
Germany

TopDiag®

P60 USER'S MANUAL

Automotive Electrical Circuit Tester



Safety Precautions And Warnings

To prevent personal injury or damage to vehicles and / or the scan tool, read this user's manual first carefully and observe the following safety precautions at a minimum whenever working on a 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 moving 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.

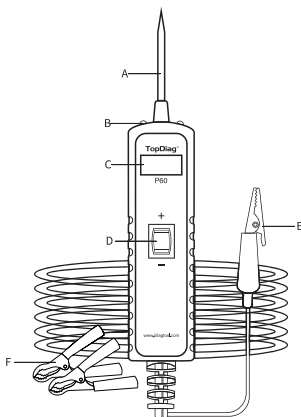
Catalog

Products	01
Parameters.....	02
Quick self-test.....	02
Voltage and positive/negative detection	03
Diode detection.....	03
Component activation	04
Continuity test	04
Grounding test.....	05
Testing trailer lights and connectors	05
Jumper lead function.....	06
Tracing and locating short circuits	06
Warranty and service.....	07

I. Products

P60 automotive electrical system activator for 6-30V automotive power circuit diagnosis, compact design, powerful, with reverse connection and overload protection, the tool probe can be used to test the conductivity and detection of circuit voltage, positive and negative detection, activation components and other functions, can quickly detect short circuits, broken wires or poor contact in the vehicle's electrical system components, which helps users to more quickly and accurately understand the vehicle It is an efficient and advanced testing tool that can greatly improve the efficiency of the user.

Function: Component activation / Voltage detection / Diode detection / Continuity testing / Ground detection / Tracing and locating short circuits
Positive and negative pole detection



A	Probes	Contact wiring or components for testing
B	LED lights	Provides lighting in dark areas or at night
C	LCD Display	For displaying test results
D	Power Switch	Used to activate and test the function of electrical components carried out by A positive or negative battery current probe guide.
E	Grounding clips	Ground lead assisted test function
F	Battery Clamp	Connecting a battery to power the device

II. Parameters

Supply voltage DC: **6-30V**

Measuring voltage range: **0.3V-70V**

Operating current: **80mA**

Activation current: **0-8A**

Operating temperature: **0~60°C**

Storage temperature: **-40~70°C**

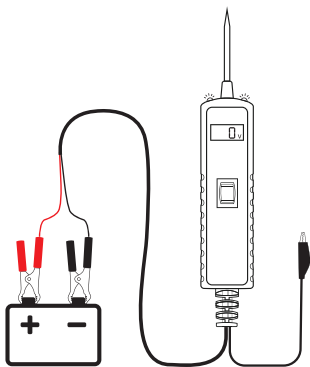
III. Quick self-test

Before starting to test the circuit or components, please confirm whether your equipment is in good condition by self-test, this product is powered through the car battery, the red battery clamp to the positive terminal of the car battery, the black battery clamp to the negative terminal of the car battery, the tool is above the switch two measurements have positive and negative markings. (Connecting party as shown in Figure 2)

*Pressing the switch forward will activate the probe with positive voltage, then the display will light up in red, followed by the LCD screen will show the battery voltage, release the switch and the display will light up in white.

* Then press the power switch backward to activate the probe with negative voltage, the display lights up green and shows 0V on the LCD, while the buzzer will sound, release the switch, the display lights up white and the sound stops.

*If it passes the above tests, it means that the device is working properly and ready for use.



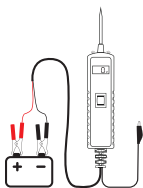
(Figure2)

IV. Product use

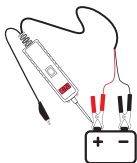
1. Voltage and positive and negative detection

When the device is connected to the car's power supply, the display lights up white and the screen will show 0v. When the probe is touched to the positive circuit, the screen will show the current circuit voltage (Figure 3). (If the device power supply and the circuit being tested are separate, then the ground lead of the device needs to be connected to the negative terminal of the circuit being tested (Figure 4))

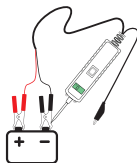
If the probe touches the negative circuit, the display will light up green, the screen will show 0V, and the device will sound a beep (as in Figure 5).



(Figure3)



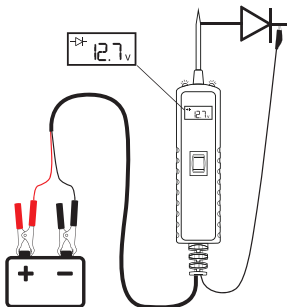
(Figure4)



(Figure5)

2. Diode detection

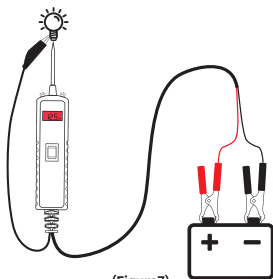
Connect the ground lead to the negative terminal of the diode and the probe to the positive terminal of the secondary tube, when the icon $\rightarrow|$ appears on the display and a voltage value is shown, the diode is good, if the display does not respond or the screen shows green and the device beeps, the diode is bad



(Figure6)

3. Component activation

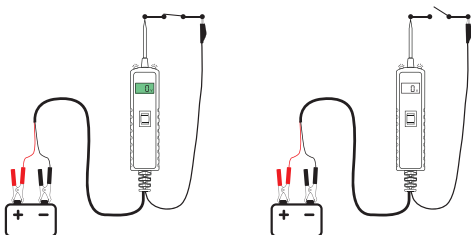
The activation function can be used to activate components such as the starter fuel pump, solenoid, blower, cooling fan, headlights, etc. Connect the grounding auxiliary clip to the negative terminal of the part, the probe contact to the positive terminal of the part, then press the positive activation button (-), the probe will output a positive voltage, the screen will light up red and display the current activation voltage, and the part will be activated at the same time (Figure 7). Probe can output positive and negative voltage, press the (-) button probe output positive voltage, press the (=) button probe will output negative voltage, activation output maximum current is 8A, more than 16A equipment will start trip protection function.



(Figure7)

4. Continuity testing

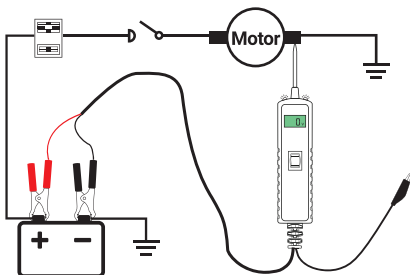
By using the probe tip and an auxiliary ground wire, continuity testing can be performed on wires and components that are disconnected from the vehicle's electrical system. When the continuity test is passed the display lights up green and the unit beeps (Figure 8). (Note: Do not press the activation switch during the continuity test.)



(Figure8)

5. Grounding detection

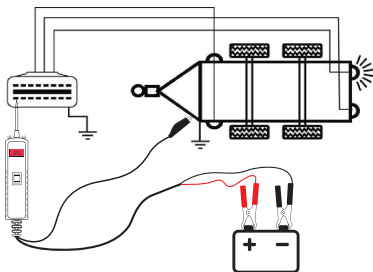
Use the probe to make contact with the negative terminal of the component. When the ground test is passed, the display will light up green and the device tone will sound (as shown in Figure 9). (Note: Do not press the activation switch during ground detection.)



(Figure9)

6. Test trailer lights and connectors

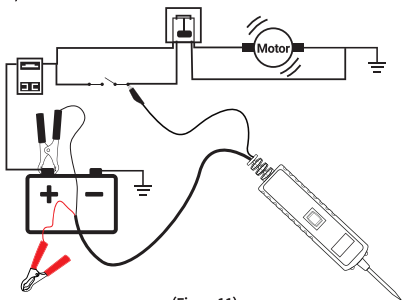
Connect the device to the battery, clip the clip of the auxiliary ground wire to the trailer ground, connect the probe to the socket of the trailer connector, and press the (-) button to detect the function and direction of the trailer light (as in Figure 10).



(Figure10)

7. Jumper lead function

Black clip and auxiliary ground wire directly connected through the device, the red clip and vehicle battery disconnected, the device can be used as a long jumper lead (Figure 11), (note that when the device is used for jumper function, please pay attention to avoid short circuit and overload, jumper lead function is not protected by the device circuit breaker)



(Figure11)

8. Track and locate short circuits

In most cases, a short circuit will manifest itself as a blown fuse or a tripped electrical protection device (such as a tripped circuit breaker). To trace and locate a short circuit, remove the blown fuse from the fuse box; use a probe to touch each fuse contact; the line that lights up green and beeps on the equipment display is the shorted line, note the line number or color, and follow the wire as far as possible to trace the harness

If you are tracing the brake light short circuit, first the harness must pass through the threshold of the wire, find the color or number of the wire and mark it. If the display lights up green and a tone sounds, you have verified that the wire is shorted. Follow the wire to the exact location. Repeat this procedure in the direction of the short circuit until you find the exact location of the short.

WARRANTY AND SERVICE

One year warranty

JDiag Technology 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) JDiag Technology 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. JDiag Technology 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, or visit our official website for consultation.