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EC

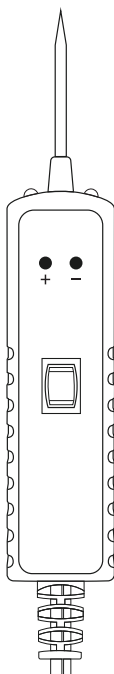
REP

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TopDiag®

P55 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.

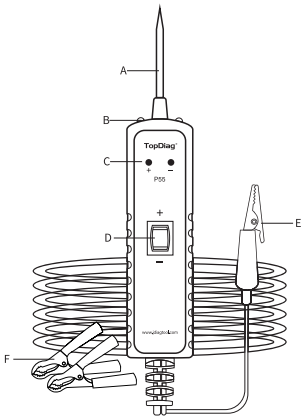
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I. Products

P55 automotive electrical system activator for 12-24V automotive power circuit diagnosis, compact design, powerful, with reverse connection and overload protection, the tool probe can be used to test the conductivity and positive and negative detection, activation components and other functions, can quickly detect short circuits, broken wires or poor contact in the vehicle electrical system components, which helps the user faster and more accurate understanding of the vehicle problems, is an efficient and advanced test tool, can greatly improve the efficiency of the user's work.

Functions: Component activation / 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	LED indicator light	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: **12-24V**

Operating current: **80mA**

Activation current: **0-8A**

Operating temperature: **0~60°C**

Storage temperature: **-40~70°C**

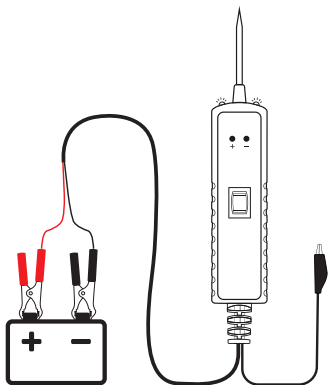
III. Quick self-test

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 vehicle battery, the red battery clamp to the positive terminal of the vehicle battery, the black battery clamp to the negative terminal of the vehicle battery, the tool is above the switch two measurements have positive and negative markings. (Connection mode Figure 2)

*Pressing the switch forward activates the probe with positive voltage, the device lights up red, release the switch and the red light goes out

*then press the power switch backward to activate the probe with negative voltage, the device lights up green, release the switch, and the green light goes out

*If it passes the above test, it means the device can work properly and is ready for use.



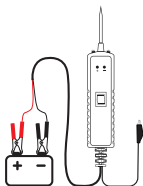
(Figure2)

IV. Product use

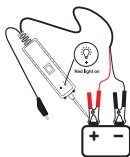
1. Positive and negative pole detection

When the device is connected to the vehicle power supply, the illumination will light up white (as in Figure 3) and when the probe is touched to the positive circuit, the device will light up red (Figure 4).

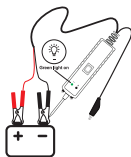
The device will light up green if the probe touches the negative circuit, (as in Figure 5)



(Figure3)



(Figure)

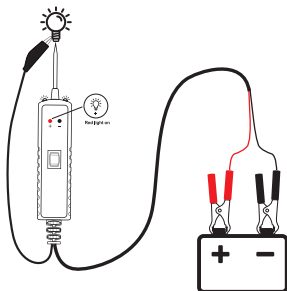


(Figure5)

2. Component activation

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

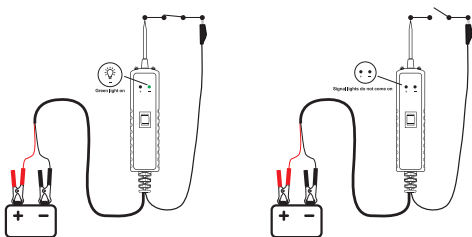
Connect the ground auxiliary clip to the negative terminal of the part and the probe contacts to the positive terminal of the part, at this time press the positive activation button (-), the probe will output a positive voltage, at this time the device will light up red and at the same time the part will be activated (Figure 6). 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, equipment trip protection beep will sound.



(Figure6)

3. Continuity testing

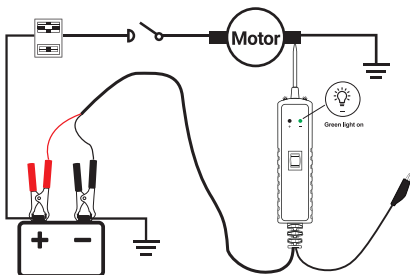
By using the probe tip and auxiliary ground wire. Continuity tests can be performed on wires and components that are disconnected from the vehicle's electrical system. The unit will illuminate green when the continuity test is passed (Figure 7). (Note: Do not press the activation switch during the continuity test.)



(Figure7)

4. Grounding detection

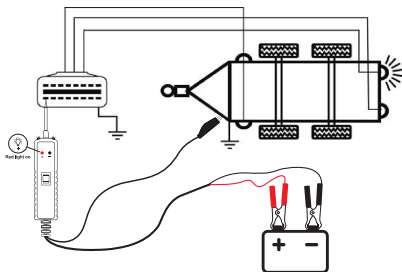
Use the probe to make contact with the negative terminal of the component and the device will light up green when the ground test is passed (Figure 8). (Note: Do not press the activation switch during ground detection.)



(Figure8)

5. Test trailer lights and connectors

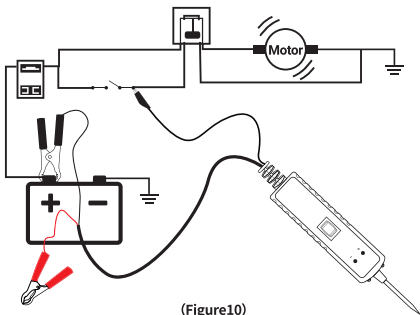
Connect the device to the battery, clip the clip of the auxiliary ground wire to the trailer ground, connect the probe to the socket of the trailer connector (Figure 9), and press the (-) button to detect the function and direction of the trailer light.



(Figure9)

6. 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 10), (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)



(Figure10)

7. 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). Trace and locate the short circuit as follows: Remove the blown fuse from the fuse box; touch each fuse contact with a probe; trace the harness by noting the number or color of the wire and following it as far as possible.

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 device lights up green, you have verified that the wire is shorted, so be careful to cut the wire and touch each end of the wire with the probe. Follow the wire until the exact location. Repeat this procedure in the direction of the short circuit until you find the exact location of the short circuit

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.