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› VDIAGTOOL V200 Pro Power Circuit Probe Tester & P60 Digital LED Circuit Tester User Manual

VDIAGTOOL V200 Pro+P60

VDIAGTOOL V200 Pro Power Circuit Probe Tester & P60 Digital LED Circuit Tester User Manual

Model: V200 Pro+P60

1. INTRODUCTION

This manual provides detailed instructions for the safe and effective use of the VDIAGTOOL V200 Pro Automotive Power Circuit Probe Tester and the VDIAGTOOL P60 Digital Dual LED Circuit Tester. This comprehensive kit is designed for diagnosing electrical issues in automotive systems, offering a range of functions from circuit testing to wire tracing.



Figure 1.1: The VDIAGTOOL V200 Pro and P60 kit, including the main power probe, circuit breaker finder, and the P60 test light, stored in a protective carrying case.

2. PRODUCT OVERVIEW

The VDIAGTOOL V200 Pro is a 2-in-1 tool combining a power circuit probe tester and a circuit breaker finder. The VDIAGTOOL P60 is a digital LED circuit tester. Together, these tools provide extensive diagnostic capabilities for automotive electrical systems.

V200 PRO 2 IN 1

POWER CIRCUIT PROBE TESTER & CIRCUIT BREAKER FINDER

Quick & Easy Diagnostic Circuit

01

CIRCUIT
PROBE



02

BREAKER
FINDER



DIYers



Home Garage



Repair Shop

Figure 2.1: Illustration of the V200 Pro's dual functionality as a circuit probe and a circuit breaker finder.

2.1. V200 Pro Features

- **Circuit Breaker/Open Test:** Identifies open circuits and tripped breakers.
- **Tracing Wire:** Locates and traces wires within a system.
- **AC/DC Voltage Test:** Measures both alternating and direct current voltages.
- **Diode Test:** Checks the functionality of diodes.
- **Resistance Test:** Measures electrical resistance.
- **Polarity Test:** Determines positive or negative polarity of a circuit.
- **Continuity Test:** Checks for an unbroken path in a circuit.
- **Ground Test:** Verifies proper grounding.
- **Activate Components:** Safely activates components for testing.
- **Signal Circuit Test:** Tests signal integrity.
- **Relay, Fuse, Trailer Light Test:** Specific tests for these components.

2.2. P60 Digital LED Circuit Tester Features

- **3-70V DC Range:** Wide voltage detection capability.
- **Digital LED Display:** Clear, backlit display for accurate voltage readings (0.1V resolution, $\pm 0.2V$ accuracy).
- **Polarity Indicator:** Intuitive dual LED indicator for positive/negative.
- **Continuity Testing:** Checks for circuit continuity.
- **Overvoltage Protection:** Safeguards vehicle's sensitive electronics.

MULTIFUNCTIONAL AUTOMOTIVE CIRCUIT TESTER











- | | |
|---|--|
|  Short Circuits Test |  Open/Breaker Circuits Test |
|  DC/AC Voltage Test |  Resistance & Diode Test |
|  Activate Components |  Poor Ground Test |
|  Test Trailer Lights |  Polarity Test |
|  Continuity Test |  Tracing Wire |



Figure 2.2: A visual representation of the multifunctional capabilities of the VDIAGTOOL automotive circuit tester, including short circuit tests, voltage tests, and component activation.

3. SETUP

3.1. V200 Pro Power Connection

The V200 Pro is powered by connecting it directly to the vehicle's 12V or 24V electrical system.

1. Ensure the vehicle's ignition is off before connecting.
2. Connect the red alligator clip to the positive (+) terminal of the vehicle's battery.
3. Connect the black alligator clip to a suitable ground point on the vehicle chassis or the negative (-) terminal of the

battery.

4. Alternatively, the V200 Pro can be powered via a cigarette lighter adapter if available.
5. Once connected, the device will power on, and the display will activate.

3.2. P60 Test Light Connection

The P60 test light operates within a 3-70V DC range and requires no external battery.

1. Connect the alligator clip of the P60 to a known good ground point on the vehicle.
2. The sharp stainless steel probe is then used to contact the circuit or component to be tested.
3. The LED display will illuminate and show the voltage reading upon contact with a live circuit.



Figure 3.1: A detailed view of the VDIAGTOOL P60 Digital LED Circuit Tester, showing its probe, coiled cable, alligator clip, and digital display.

4. OPERATING INSTRUCTIONS

4.1. V200 Pro Operating Modes

The V200 Pro offers multiple operating modes for comprehensive circuit diagnosis. Switch between modes using the designated buttons on the device.

1. Mode I (Power Circuit Probe Tester):

- **AC/DC Voltage Test:** Touch the probe to the circuit. The display will show the voltage and indicate AC or DC.
- **Resistance Test:** Select resistance mode and touch the probe to the component.
- **Diode Test:** Use this mode to check diode functionality and direction.
- **Polarity Test:** The device will indicate positive or negative polarity.
- **Activate Components:** Use the activation function to safely power components (e.g., motors, lights) for testing. Exercise caution to avoid short circuits.

2. Mode II (Circuit Breaker Finder):

- This mode helps locate short circuits, open connections, and broken wires.
- Follow the device's on-screen prompts or indicator lights to trace the fault.

3. **Tracing Wire:** Use the tracing function to follow wires through harnesses or panels.

4. **Continuity Test:** Touch the probe to two points to check for continuity. An audible tone or visual indicator will confirm continuity.

5. **Ground Test:** Verify if a point is properly grounded.

4.2. P60 Digital LED Circuit Tester Operation

The P60 is a straightforward tool for quick voltage and polarity checks.





1. Connect the alligator clip to a good ground.
2. Carefully touch the probe tip to the wire, terminal, or component you wish to test.
3. The digital display will show the voltage.
4. The dual LED indicator will show red for positive and green for negative polarity.
5. For continuity testing, ensure the circuit is de-energized before testing.

VDIAGTOOL P60

AUTOMOTIVE TEST LIGHT

DC 3-70V


DIGITAL LED CIRCUIT TESTER

 Quick Self-Test	 Polarity Indicator
 Voltage Detection	 Continuity Testing


Bidirection Testing Mode

LED
LED Digital Display


Accurate Measurement


Backlight Display


Overvoltage Protection

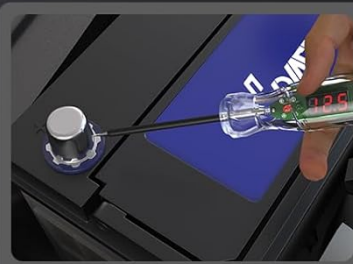
Figure 4.1: Key features of the VDIAGTOOL P60 Automotive Test Light, including quick self-test, polarity indicator, voltage detection, and continuity testing.

MULTI-FUNCTION DIGITAL LED VOLTAGE TESTER PEN

With VOLTMETER & PROBE



Polarity Identification



Car Battery & Alternator Voltage Check



Trailer Light & Fuse Testing



Light Socket & Relay Testing



Hidden Shorts & Breaks Finding



Ground Detection



DIYers



Home Garage



Repair Shop



Electrician



Technician

Figure 4.2: Examples of how the P60 Digital LED Voltage Tester Pen can be used for tasks such as polarity identification, battery and alternator checks, and fuse testing.

5. WIDE APPLICATION

These tools are suitable for diagnosing electrical circuits in a wide range of vehicles and applications.

- Cars
- SUVs
- Motorbikes
- Steamers (Boats)
- Trucks
- Buses
- Headlights, taillights, turn signal circuits
- Faulty sockets, relays, fuse connections
- Ground detection

WIDE APPLICATION

Test the Entire Electrical Circuit System Easily

Mode 1 Power Circuit Probe Tester

- NOT ONLY FOR CAR
- Compatible with 12V/24V Sources



Mode 2 Circuit Breaker Finder

- DC VOLTAGE: 6 to 42 volts
- RECEIVER: 7" flexible probe



Car



SUV



Motorbike



Steamer



Truck



Bus

Figure 5.1: The VDIAGTOOL V200 Pro and P60 are applicable for testing electrical systems in a diverse range of vehicles, from passenger cars to heavy-duty trucks and marine vessels.

6. MAINTENANCE

- Keep the tools clean and free from dirt, grease, and moisture.
- Store the tools in their protective carrying case when not in use to prevent damage.
- Regularly inspect cables and connectors for wear or damage. Replace if necessary.
- Do not expose the tools to extreme temperatures or direct sunlight for prolonged periods.
- Clean the probe tips with a soft, dry cloth after each use.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Device does not power on (V200 Pro)	Incorrect power connection; vehicle battery low.	Ensure alligator clips are securely connected to the correct battery terminals. Check vehicle battery voltage.
No reading on display (P60)	Poor ground connection; circuit is not live; probe not making good contact.	Verify ground connection. Ensure the circuit is active. Clean probe tip and ensure firm contact.
Inaccurate voltage readings	Poor connection; interference.	Re-establish connections. Ensure no other electrical devices are causing interference.
Circuit Breaker Finder not locating fault	Fault is intermittent; incorrect mode selected.	Ensure the V200 Pro is in the correct mode. Re-check the circuit for intermittent issues.

8. SPECIFICATIONS

8.1. VDIAGTOOL V200 Pro

- **Operating Voltage:** 12V / 24V DC (powered by vehicle battery)
- **Functions:** Circuit Breaker/Open Test, Tracing Wire, AC/DC Voltage Test, Diode Test, Resistance Test, Polarity Test, Continuity Test, Ground Test, Activate Components, Signal Circuit Test, Relay, Fuse, Trailer Light Test.
- **Cable Length:** Approximately 20ft + 20ft (total 40ft)

8.2. VDIAGTOOL P60

- **Operating Voltage Range:** 3-70V DC
- **Display:** Backlit LCD with 0.1V resolution
- **Accuracy:** $\pm 0.2V$
- **Features:** Quick Self-Test, Polarity Indicator (Dual LED), Voltage Detection, Continuity Testing, Overvoltage Protection.
- **Probe:** Sharp Stainless Steel
- **Cable:** Flexible 118" Spring Wire

9. WARRANTY AND SUPPORT

VDIAGTOOL offers the following support for this product:

- **Warranty:** 2 Years
- **Technical Assistance:** Lifelong technical assistance
- **Returns/Refunds:** 60 Days No Question Asked Return/Refund policy

For further assistance or inquiries, please contact VDIAGTOOL customer support.