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VDIAGTOOL V200PRO

VDIAGTOOL V200 Pro Automotive Power Circuit Probe Tester Breaker Finder Tool

Model: V200PRO

Brand: VDIAGTOOL

1. Introduction

The VDIAGTOOL V200 Pro is a versatile 2-in-1 automotive electrical diagnostic tool designed to simplify car diagnostics. It combines the functionalities of a power circuit probe tester and a circuit breaker finder, offering a comprehensive solution for various electrical system issues in 12V/24V vehicles. This tool is ideal for DIY enthusiasts, electricians, and technicians seeking efficient and accurate troubleshooting.



Figure 1: The VDIAGTOOL V200 Pro kit, showcasing the main circuit probe, breaker finder, and various cables including the 20ft extension cord.

Key capabilities include circuit breaker/open test, wire tracing, AC/DC voltage test, diode test, resistance test, polarity test, continuity test, ground test, component activation, and signal circuit testing. Its robust design with overload protection ensures safety for both the device and vehicle electronics.

2. Setup

The V200 Pro can be powered in two primary ways: directly from the vehicle's battery or via the cigarette lighter adapter. The circuit breaker finder (Mode II) requires a 9V battery (included) for operation.

2.1 Powering the Circuit Probe (Mode I)

1. **Battery Connection:** Connect the red alligator clip to the positive (+) terminal of the vehicle battery and the black alligator clip to the negative (-) terminal.
2. **Cigarette Lighter Connection:** Alternatively, plug the cigarette lighter adapter into the vehicle's cigarette lighter socket and connect it to the V200 Pro.

3. The device will power on automatically once connected.

2.2 Installing 9V Battery for Breaker Finder (Mode II)

1. Locate the battery compartment on the back of the breaker finder unit.
2. Open the compartment cover and insert a 9V battery, ensuring correct polarity.
3. Close the compartment cover securely.

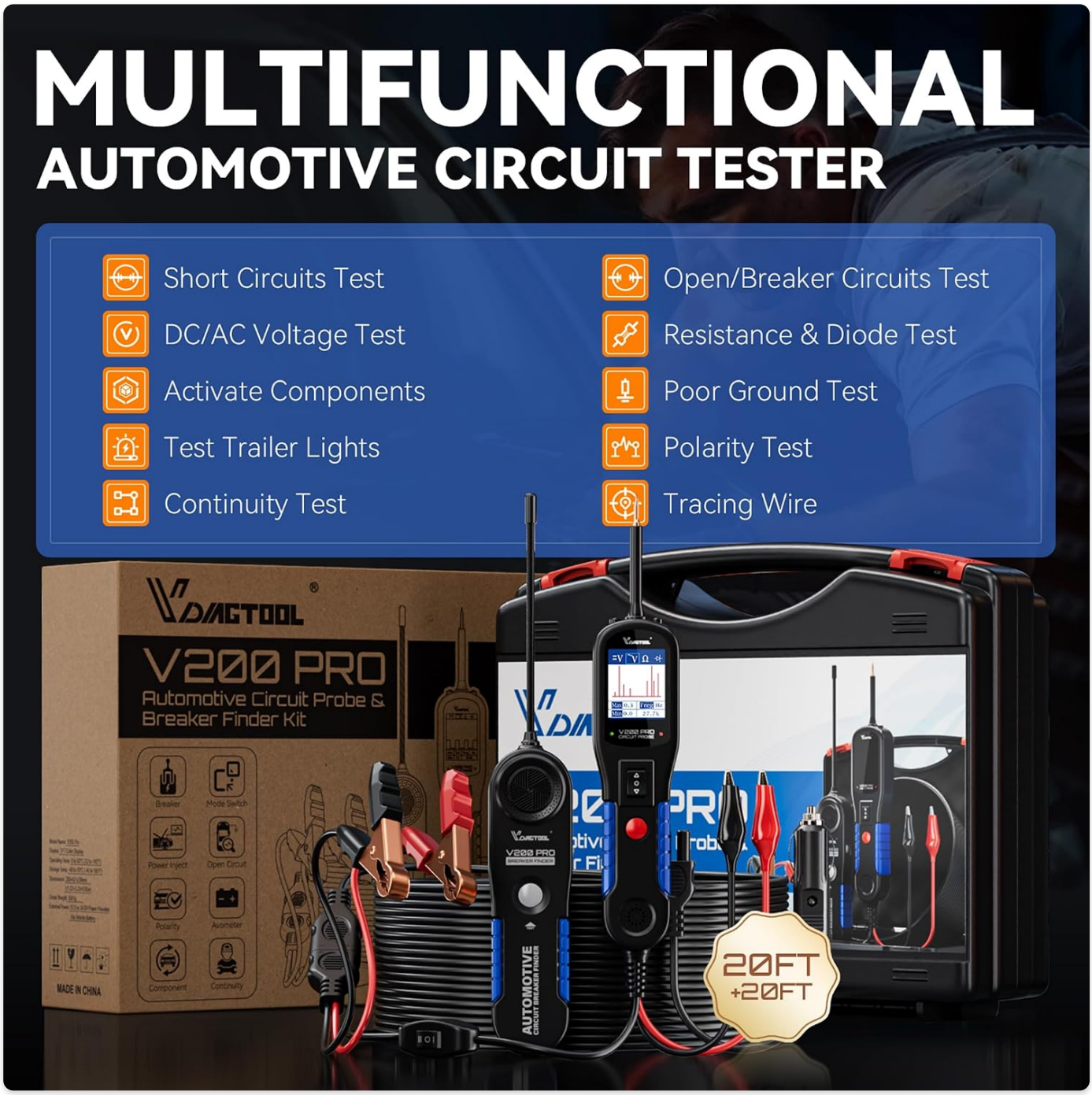


Figure 2: Powering the V200 Pro via battery clamps or cigarette lighter, and installing the 9V battery for the breaker finder.

3. Operating Instructions

The V200 Pro offers two main operating modes: Power Circuit Probe (Mode I) and Circuit Breaker Finder (Mode II). Switch between modes using the dedicated switch on the device.

3.1 Mode I: Power Circuit Probe Tester

This mode is used for comprehensive circuit testing. The LCD screen displays real-time voltage, resistance, and diode readings.

- **AC/DC Voltage Test:** Touch the probe tip to the circuit. The screen will display the voltage value. Red/green LEDs indicate polarity.
- **Resistance Test:** Measure resistance between the probe tip and auxiliary ground lead.
- **Diode Test:** Check the conductivity of diodes.
- **Component Activation:** Apply positive or negative battery current to components (e.g., lights, motors, relays) to test their functionality. Use the toggle switch to apply current.
- **Signal Circuit Test:** Troubleshoot sensor and signal circuits by observing voltage readings and frequencies.



Figure 3: Using the V200 Pro in Power Circuit Probe mode to test a sensor.

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Video 1: Demonstrates the V200 Pro's capabilities for testing various automotive electrical components and tracing wires. This comprehensive video from the seller highlights the tool's versatility in diagnosing circuit problems.

3.2 Mode II: Circuit Breaker Finder

This mode is used for efficiently locating circuit breaker points, open connections, broken wires, and current leaks. The tool emits a tone that changes in pitch as you get closer to the signal source.

- **Wire Tracing:** Connect the probe tip to the wire you want to trace. Move the breaker finder along the wire; the tone will guide you to the signal.
- **Locating Open Circuit:** Follow the wire until the tone disappears or significantly changes, indicating a break.
- **Sensitivity Adjustment:** Use the rotary switch on the breaker finder to adjust sensitivity for optimal tracing in different environments.



Figure 4: Using the V200 Pro in Circuit Breaker Finder mode to trace wires and locate breaks.

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Video 2: Illustrates the V200 Pro's Mode Two (Breaker Finder) functionality for locating open circuits and tracing wires. This seller-provided video demonstrates how to effectively use the tool to pinpoint electrical issues.

4. Maintenance

To ensure the longevity and optimal performance of your VDIAGTOOL V200 Pro, follow these maintenance guidelines:

- **Cleaning:** Wipe the tool with a soft, dry cloth after each use. Avoid using abrasive cleaners or solvents.
- **Storage:** Store the tool in its original rugged blow-molded case in a dry, cool place away from direct sunlight and extreme temperatures.
- **Battery Replacement:** Replace the 9V battery in the breaker finder unit when the low battery indicator appears to ensure accurate readings.
- **Cable Care:** Avoid sharp bends or kinks in the cables. Store them neatly coiled to prevent damage.

5. Troubleshooting

The VDIAGTOOL V200 Pro is designed with built-in safety features to prevent damage during use. If you encounter issues, refer to the following common troubleshooting tips:

- **Overload Protection:** If the tool is overloaded (e.g., short circuit), it will automatically shut down and restart. This is a safety measure to protect both the device and your vehicle's electronics. Allow it to cool down if it frequently triggers overload protection.
- **No Power/Display:** Ensure the battery clamps or cigarette lighter adapter are securely connected to a power source (vehicle battery or cigarette lighter). Check the vehicle's battery voltage to ensure it's within the 12V/24V operating range.
- **Inaccurate Readings (Mode I):** Ensure the probe tip has good contact with the circuit. Check the auxiliary ground lead connection.
- **No Tone/Weak Tone (Mode II):** Check the 9V battery in the breaker finder unit. Adjust the sensitivity dial to increase signal detection. Ensure the probe tip is positioned correctly (perpendicular to the wire for best results).



Figure 5: Quick self-test and overload protection features of the V200 Pro.

6. Specifications

Feature	Detail
Brand	VDIAGTOOL
Model	V200PRO
Power Source (Probe)	Powered By Vehicle Battery Or Cigarette Lighter
Power Source (Breaker Finder)	1x 9V Battery
Operating Voltage	12V - 24V (DC) for Probe; 6V - 42V (DC) for Breaker Finder

Item Dimensions (L x W x H)	1.88 x 0.98 x 7 inches
Item Weight	1.48 Kilograms (3.25 pounds)
Extension Cable Length	20ft + 20ft (40ft total)
Display	Color LCD
Included in Box	Probe Tester kit, Cigarette lighter Adapter, Extension Cable (20ft.), 9V Battery, User Manual, Rugged Blow Molded Case

7. Warranty & Support

VDIAGTOOL offers a **3-year warranty** for the V200 Pro Automotive Power Circuit Probe Tester. This warranty covers manufacturing defects and malfunctions under normal use.
Additionally, a **60-day no-questions-asked new replacement or refund** policy is in place. For any technical assistance, questions, or concerns, please contact VDIAGTOOL support via email at vdiagtool2@outlook.com. Lifetime technical assistance is provided to ensure customer satisfaction.

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