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> VDIAGTOOL V200 PRO Upgrade Kit Automotive Power Circuit Probe Tester with 30PCS Back Probe Kit, 12/24V Electrical Short and Open Circuit Finder AC/DC Voltage Test Activating Component 40Ft Cable

## VDIAGTOOL V200 PRO UPGRADE KIT

# VDIAGTOOL V200 PRO Upgrade Kit Instruction Manual

Model: V200 PRO UPGRADE KIT

Brand: VDIAGTOOL

### INTRODUCTION

The VDIAGTOOL V200 PRO Upgrade Kit is a versatile 3-in-1 automotive electrical tool designed for comprehensive circuit testing and diagnosis. This kit includes a power circuit probe tester, a circuit breaker finder, and a 30-piece back probe kit, making it an essential instrument for diagnosing and resolving various electrical issues in 12V/24V vehicle systems.

It supports a wide range of tests including circuit open tests, wire tracing, AC/DC voltage tests, diode tests, resistance tests, polarity tests, continuity tests, ground tests, component activation, and signal circuit tests. The integrated breaker finder efficiently locates circuit breaker points, open connections, broken wires, and current leaks without damaging insulation.



Figure 1: VDIAGTOOL V200 PRO Upgrade Kit with main components.

## WHAT'S IN THE BOX

The VDIAGTOOL V200 PRO Upgrade Kit includes the following items:

- V200 Pro Automotive Circuit Probe Tester (Main Unit)
- Breaker Finder (Separate Unit)
- Probe Tip (for main unit)
- Original 20ft Cable
- Extension Cable (20ft.)
- Cigarette Lighter Adapter
- Battery Hookup Clips (Alligator Clips)
- Power Assist Cable
- 15PCS Back Probe Pins (3 different angles: 90°, 135°, Straight)
- 5PCS Banana Plug to Alligator Clip Circuit Test Wires
- 5PCS Wire Piercing Probes
- 5PCS Nickel-plated Copper Alligator Clips

- Rugged Blow Molded Case
- User's Manual
- 9V Battery (included)

# 3-IN-1 KIT

## V200 PRO POWER CIRCUIT PROBE TESTER

with 30Pcs Back Probe Lead Set

01  
**CIRCUIT  
PROBE**



+

02  
**BREAKER  
FINDER**



+

03  
**TEST  
LEADS SET**



=





Diyers



Home Garage



Repair Shop

Figure 2: All components included in the V200 PRO Upgrade Kit.

Video 1: Unboxing and overview of the V200 PRO Upgrade Kit contents.

## SETUP

To begin using your VDIAGTOOL V200 PRO, ensure the 9V battery is installed in the Breaker Finder unit. The main Power Circuit Probe Tester can be powered directly from the vehicle's 12V/24V battery or a cigarette lighter outlet using the provided cables.

### Connecting the Power Circuit Probe Tester:

1. Connect the Power Assist Cable to the main unit.
2. Attach the Battery Hookup Clips (alligator clips) to the vehicle's battery terminals (red to positive, black to negative) or insert the Cigarette Lighter Adapter into the vehicle's cigarette lighter socket.
3. Insert the Probe Tip into the main unit's probe port.

4. Ensure all connections are secure before operation.

# POWER PROBE CIRCUIT TESTER

Effectively Diagnose Electrical Problems

- ✓ One-Click 4 Working Modes
- ✓ Checking Short Circuit
- ✓ Locating Open/Breaker Circuit
- ✓ Quick Self-Test
- ✓ Overload Protection
- ✓ Red/Green Polarity LED
- ✓ Built-in Light & Beep Warning
- ✓ Powered By Vehicle Battery
- ✓ Powered By Cigarette Lighter
- ✓ 20FT+20FT Extension Cable

**EASY TO USE**

Figure 3: The V200 PRO Circuit Probe Tester connected to a power source.

## OPERATING MODES AND FUNCTIONS

The V200 PRO offers two primary operational modes, easily switchable with a single click, along with various testing functionalities.

### Mode I: Circuit Probe Tester

In Mode I, the device functions as a comprehensive circuit probe tester, supporting four working modes: AC/DC Voltage, Resistance, and Diode. The electrical tool allows users to instantly check 12V/24V electrical systems, determine if a wire or circuit is live, and identify polarity (positive or negative).

- **AC/DC Voltage Test:** Detects the voltage value of the circuit.
- **Resistance Test:** Determines whether an electrical circuit is complete or broken and if the resistance matches manufacturer's specifications.
- **Diode Test:** Detects the operation of the diode assembly or the actual forward voltage and determines if it is conducting.

- **Polarity Test:** Instantly indicates positive (red light) or negative (green light) polarity.



Figure 4: Overview of the four working modes in Circuit Probe Tester (Mode I).

Video 2: Demonstration of V200 PRO Mode One for auto power circuit testing.

## Mode II: Circuit Breaker Finder

Switching to Mode II enables the breaker finder functionality. This mode is ideal for locating circuit breaker points, open connections, broken wires, and current leaks by detecting tone changes. It can also trace wires/cables without damaging their insulation.

- **Checking Short Circuit:** Quickly identifies short circuits.
- **Locating Open Circuit:** Pinpoints open connections in a circuit.
- **Tracing Wire/Cable:** Follows the path of a wire or cable to identify breaks or routing.

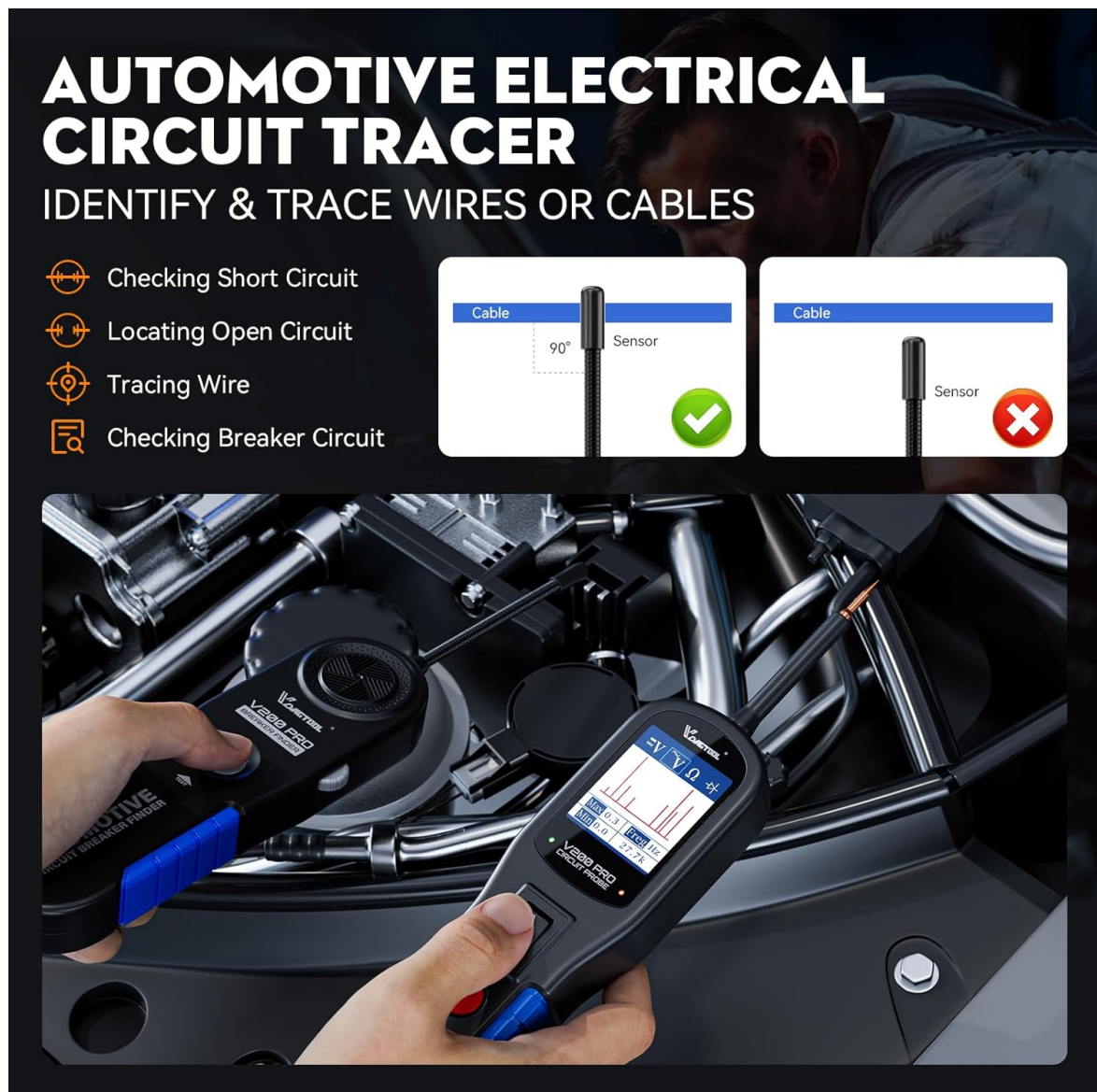


Figure 5: Using the V200 PRO for circuit tracing and fault finding.

Video 3: Demonstration of V200 PRO Mode Two for open circuit breaker finding.

## Component Activation & Sensor/Signal Circuit Test

The V200 PRO can generate activation signals to electrical components such as car lights, motors, windshield wipers, radiator fans, relays, and fuel injectors to troubleshoot electrical problems. It can

also locate auto short circuits if you frequently experience blown fuses and test various sensors and signal circuits to pinpoint the root cause of electrical issues after extracting DTCs from vehicle ECUs.

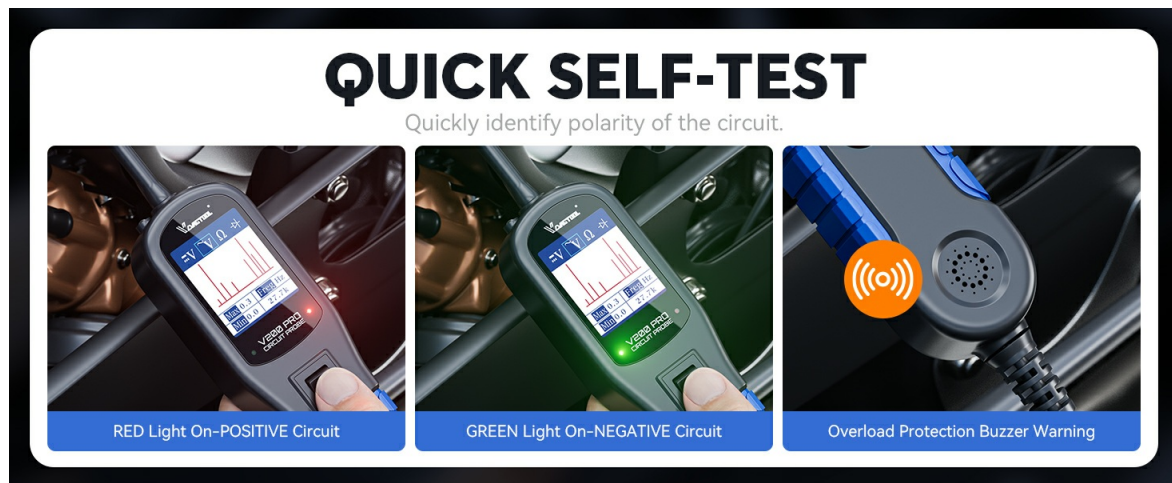


Figure 6: Activating various vehicle components using the V200 PRO.

### Back Probe Kit Usage

The 30PCS Back Probe Kit is designed to assist with harness connectors, automotive sensors, and fuel injectors. It includes:

- **15PCS Back Probe Pins:** Made of stainless steel with 0.07mm needles, allowing testing up to 30 Volts. Features 3 different probe angles (90°, 135°, Straight) for various testing needs.
- **5PCS Banana Plug to Alligator Clip Circuit Test Wires:** For connecting to the main unit.
- **5PCS Wire Piercing Probes:** Allows quick connection to test leads without stripping wires, suitable for back probing weather pack style connectors.
- **5PCS Nickel-plated Copper Alligator Clips:** For secure connections during testing.



Figure 7: Detailed view of the 30PCS Back Probe Kit components.

Video 4: Demonstration of the 30pcs Back Probe Kit and its multifunctional uses.

## APPLICATIONS

The VDIAGTOOL V200 PRO Upgrade Kit is designed to work on all kinds of vehicle circuit issues with voltages between 6 and 42 volt DC. Its versatility makes it suitable for a wide range of applications beyond just cars, including:

- Automobiles
- SUVs
- Mini Vans
- Trucks
- Tractors
- Boats
- RVs

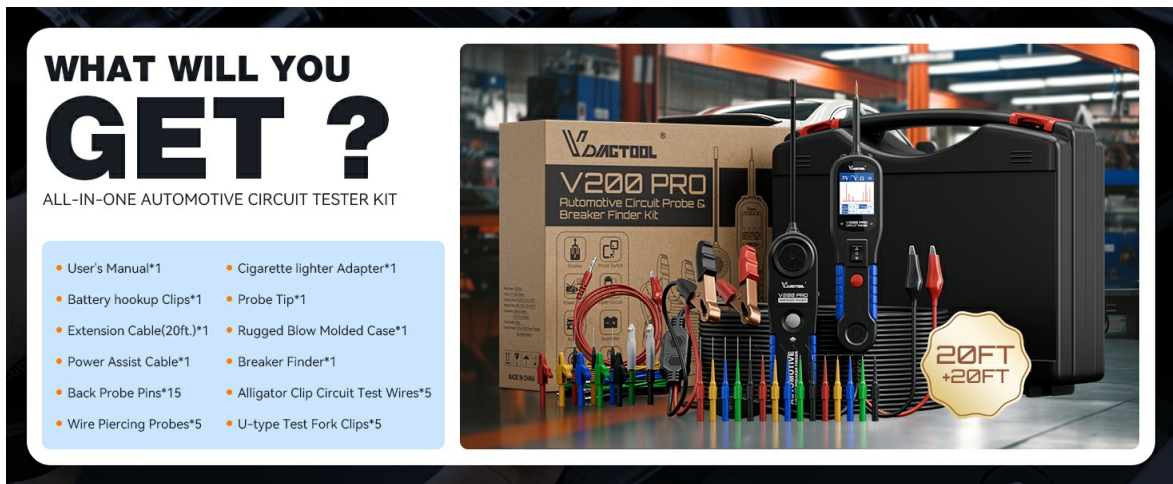


Figure 8: The V200 PRO is suitable for various vehicle types.

## SPECIFICATIONS

Feature	Specification
Product Dimensions	1.88 x 0.98 x 7 inches
Item Weight	3.86 Pounds
Item Model Number	V200 PRO UPGRADE KIT
Batteries	1 9V batteries required (included)
Power Source	Powered By Vehicle Battery Or Cigarette Lighter
Color	Blue
Country of Origin	China

## TROUBLESHOOTING

If you encounter issues with your VDIAGTOOL V200 PRO, consider the following:

- **No Power/Display:** Ensure the main unit is correctly connected to a 12V/24V power source (vehicle battery or cigarette lighter). Check the 9V battery in the Breaker Finder unit.
- **Inaccurate Readings:** Verify that the probe tip has good contact with the circuit. Ensure the correct operating mode (DC/AC Voltage, Resistance, Diode) is selected for the test being performed.
- **Breaker Finder Not Detecting:** Ensure the probe tip is positioned perpendicular to the wire being traced for optimal signal detection. Check for strong interference from other electrical components.
- **Component Activation Failure:** Confirm the component is properly connected and receiving a good ground. Ensure the V200 PRO is in the correct activation mode and supplying sufficient voltage/current.
- **Intermittent Functionality:** Check all cable connections for looseness or damage. Ensure the vehicle's battery voltage is stable and within the operating range (6-42V DC).

## MAINTENANCE

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

- **Cleaning:** Wipe the device and accessories with a soft, dry cloth after each use. Avoid using abrasive cleaners or solvents.
- **Storage:** Store the kit in its rugged blow molded case in a dry, cool place away from direct sunlight and extreme temperatures.
- **Battery:** If storing for an extended period, remove the 9V battery from the Breaker Finder unit to prevent leakage.
- **Cable Inspection:** Periodically inspect all cables and connectors for signs of wear, cuts, or damage. Replace any damaged components immediately.

## WARRANTY & SUPPORT

VDIAGTOOL offers comprehensive support for your V200 PRO Upgrade Kit:

- **Warranty:** 3 Years Warranty.
- **Returns/Refunds:** 60 Days No-Question-Asked NEW REPLACEMENT OR REFUND.
- **Technical Assistance:** Life-long technical assistance.
- **Contact:** For any questions or concerns, please reach us via [vdiagtool2@outlook.com](mailto:vdiagtool2@outlook.com).