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› VXDAS VSP200 Automotive Circuit Tester User Manual

VXDAS VSP200

VXDAS VSP200 Automotive Circuit Tester User Manual

Model: VSP200

1. INTRODUCTION

The VXDAS VSP200 Automotive Circuit Tester is a versatile diagnostic tool designed for testing 12V and 24V vehicle electrical systems. It combines multiple functions including voltage and polarity testing, continuity testing, signal circuit testing, and component activation. This manual provides detailed instructions for the safe and effective use of your VSP200 tester.



Image 1.1: The VXDAS VSP200 Automotive Circuit Tester with its included accessories, such as the main unit, power cables, and alligator clips.

2. SAFETY INFORMATION

WARNING: Always observe safety precautions when working with vehicle electrical systems. Failure to do so may result in injury or damage to the vehicle or tool.

- Wear appropriate eye protection.
- Do not use the tool if it appears damaged.
- Ensure the vehicle's ignition is off before connecting or disconnecting the tool, unless specific tests require power.
- Avoid contact with moving engine parts.

- Do not exceed the specified voltage limits (12V/24V).
- The tool features an automatic 8 Amp resetting circuit breaker for overload protection.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- VXDAS VSP200 Main Unit
- Power Connection Cable with Alligator Clips
- Auxiliary Ground Lead
- Probe Tip
- USB Cable
- User Manual (this document)
- Storage Case



4. PRODUCT OVERVIEW

Familiarize yourself with the components of the VXDAS VSP200 tester:



Image 4.1: Labeled diagram illustrating the key components of the VXDAS VSP200, including the probe tip, LCD screen, control buttons, and various ports.

1. **Probe Tip:** For making contact with circuits.
2. **Front LED Light:** Illuminates the work area.
3. **LCD Screen:** Displays test results and menu options.
4. **Red/Green LED Indicator:** Indicates polarity (Red for positive, Green for negative).
5. **Auxiliary Ground Lead:** For grounding the tool when needed.
6. **Key Button Operation:** Navigation and selection buttons.
7. **USB Port:** For potential firmware updates (if applicable).

8. **Speaker:** Provides audible feedback.
9. **Alligator Battery Clip:** Connects to vehicle battery for power.
10. **Power Connector:** Connects the main unit to the power cable.
11. **HOOK:** For hanging the tool during use.
12. **Relay Test Port:** Specific port for relay testing.



Image 4.2: Close-up views of the 2.4-inch LCD screen, the integrated hook for convenience, and the robust alligator clips for secure battery connection.

5. SETUP AND POWERING ON

To begin using your VXDAS VSP200, follow these steps:

1. **Connect Power Cable:** Insert the power connector of the main unit into the corresponding port on the VSP200.
2. **Connect to Vehicle Battery:**

- Attach the **RED** alligator clip to the positive (+) terminal of the vehicle's 12V or 24V battery.
 - Attach the **BLACK** alligator clip to the negative (-) terminal of the vehicle's battery or a good chassis ground.
3. The VSP200 will power on automatically once connected. The LCD screen will illuminate, and the device will be ready for use.
 4. For extended reach, the 20-foot cable allows testing across various parts of the vehicle, including larger vehicles like RVs or trailers.



Image 5.1: An individual utilizing the VXDAS VSP200 with its extended 20-foot cable to diagnose an RV, highlighting the tool's reach for larger vehicles.

6. OPERATING INSTRUCTIONS

The VSP200 offers various diagnostic modes accessible via the LCD screen and navigation buttons. The interface display provides quick access to different functions.

Interface Display



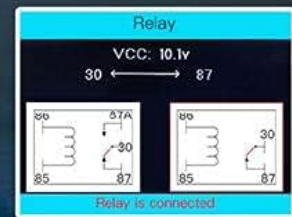
Smart Test



Multimeter



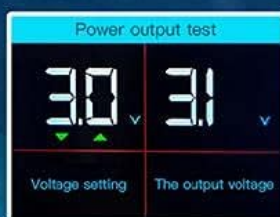
Oscilloscope



Relay



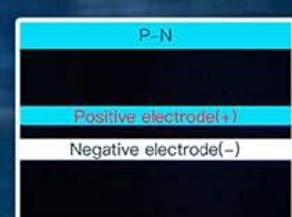
Component Activation



Power Supply



Injector



Positive/Negative



Image 6.1: The VSP200's interface display, showcasing different diagnostic modes such as Smart Test, Multimeter, Oscilloscope, Relay Test, Component Activation, Power Supply, and Injector Test.

6.1. Navigating the Menu

Use the directional buttons (Up, Down, Left, Right) and the "OK" button to navigate through the menu options displayed on the LCD screen. Select the desired test mode.

6.2. Voltage & Polarity Testing

Touch the probe tip to the circuit or component to be tested. The LCD screen will display the voltage reading. The Red/Green LED indicator will light up red for positive voltage and green for negative voltage (ground).

6.3. Continuity Testing

In continuity mode, touch the probe tip to one end of the circuit and the auxiliary ground lead to the other. The tool will indicate if there is continuity (a complete circuit) and may provide an audible tone.

6.4. Signal Circuit Testing

This mode allows for testing various signal circuits within the vehicle. Refer to the on-screen prompts for specific signal types and expected readings.

6.5. Activating Components

The VSP200 can safely activate components both in-hand and in the vehicle. Connect the probe tip to the component's power input. Use the tool's activation function to supply power or ground. **CAUTION:** Ensure the component is suitable for direct power application and observe current draw to prevent damage.

6.6. Multimeter Mode

The multimeter mode provides precise measurements for:

- **DC Voltage:** Measure direct current voltage.
- **AC Voltage:** Measure alternating current voltage.
- **Resistance:** Measure electrical resistance in Ohms.
- **Diode Test:** Check the functionality of diodes.

6.7. Relay Test

Use the dedicated relay test port to quickly check the functionality of automotive relays. Follow the on-screen instructions for connecting and testing relays.

6.8. Short Circuit Detection

The VSP200 can assist in following and locating short circuits. By applying power and observing the circuit breaker, you can trace the path of a short.

6.9. Checking for Bad Ground Contacts

Use the continuity test or voltage drop test to identify poor ground connections, which can cause various electrical issues.

7. MAINTENANCE

- **Cleaning:** Wipe the tool with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Storage:** Store the VSP200 and its accessories in the provided storage case in a dry, clean environment when not in use.
- **Cable Inspection:** Regularly inspect the power cables and probe tip for any signs of wear or damage. Replace if necessary.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Tool does not power on.	Poor connection to vehicle battery; vehicle battery is dead.	Ensure alligator clips are securely connected to clean battery terminals. Check vehicle battery voltage.
Circuit breaker trips frequently.	Overload on the circuit being tested; short circuit detected.	Reduce load or investigate for a short circuit in the component/wiring. The breaker will reset automatically.

Problem	Possible Cause	Solution
Inaccurate readings.	Poor contact with the circuit; dirty probe tip; incorrect mode selected.	Ensure firm contact. Clean probe tip. Verify the correct diagnostic mode is selected.
LCD screen is blank or frozen.	Temporary software glitch; power interruption.	Disconnect and reconnect power to reset the tool. If problem persists, contact support.

9. SPECIFICATIONS

- **Brand:** VXDAS
- **Model:** VSP200
- **Operating Voltage:** 12V - 24V DC
- **Circuit Breaker:** 8 Amp (Automatic Resetting)
- **Cable Length:** 20 feet (approx. 6 meters)
- **Display:** LCD Screen
- **Measurement Type:** Multimeter (DC/AC Voltage, Resistance, Diode)
- **Dimensions (L x W x H):** 25.9 x 4.8 x 22.6 cm (approx. 10.2 x 1.9 x 8.9 inches)
- **Power Source:** Vehicle Battery Powered

10. WARRANTY AND SUPPORT

VXDAS products are designed for reliability and performance. For warranty information or technical support, please refer to the contact details provided with your purchase or visit the official VXDAS website. Keep your purchase receipt as proof of purchase.

For further assistance, you may contact VXDAS customer service via their official channels. Please have your model number (VSP200) and purchase details ready.

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question