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Autel A-M017-00-US

Autel PowerScan PS100 Automotive Circuit Tester User Manual

Model: A-M017-00-US | Brand: Autel

Product Overview

The Autel PowerScan PS100 is an advanced automotive electrical system diagnostic tool designed to reduce diagnostic time in 6-30V vehicle electrical systems. It offers comprehensive testing capabilities including voltage and polarity checks, continuity testing, signal circuit analysis, component activation, and short/open circuit tracing.

This versatile tool provides faster and more intuitive diagnostics compared to traditional test lights and multimeters, with an extended data display for AC/DC voltage, resistance, and diode testing. Its built-in circuit breaker offers overload protection, ensuring safe operation.



Image: Overview of the Autel Electrical System Diagnostic Tool and its capabilities.

What's in the Box

- 1 x Autel PowerScan PS100 Automotive Circuit Tester
- 1 x 20ft Extension Cable

- 1 x Battery Hookup Clips
- 1 x Cigarette Lighter Adapter
- 1 x Probe Tip
- 1 x User Manual
- 1 x Protective Case



Image: Contents of the Autel PowerScan PS100 package, including the main unit, cables, and accessories.

Setup and Initial Connection

Before using the PowerScan PS100, ensure all components are present and in good condition. The tool requires power from the vehicle's 6-30V electrical system.

1. **Connect to Power Source:**

- For direct battery connection, use the provided battery hookup clips. Connect the red clip to the positive (+) battery terminal and the black clip to the negative (-) battery terminal.
- Alternatively, for in-vehicle testing, use the cigarette lighter adapter. Plug the adapter into the vehicle's cigarette lighter socket.

2. **Attach Probe Tip:** Securely attach the sharp probe tip to the main unit.
3. **Auxiliary Ground Lead:** The auxiliary ground lead can be connected to a suitable ground point for certain tests, such as resistance measurements.

Your browser does not support the video tag.

Video: This video demonstrates the unboxing and initial setup of the Autel PowerScan PS100, including connecting the tool to a power source and attaching accessories. (Video duration: 12:38)

Operating Modes and Functions

The PowerScan PS100 features four advanced working modes, accessible by depressing the Mode Button:



Image: Visual representation of the four working modes: DC Voltage, AC Voltage, Resistance, and Tone On/Off.

1. DC Voltage Mode

Reads DC voltage with a resolution of 0.1 volts. The red LED illuminates for positive voltage, and the green LED for negative voltage. A beep accompanies positive connection, and a low-pitched tone for negative.

Your browser does not support the video tag.

Video: This video provides a detailed demonstration of the Autel PowerScan PS100's various testing functions, including DC voltage testing. (Video duration: 2:14)

2. AC Voltage Mode

Displays Max. voltage, Min. voltage, frequency, and duty cycle. Useful for testing sensors and signal circuits.

3. Resistance Mode (Continuity Test)

Measures resistance between the probe tip and the auxiliary ground lead. A solid connection shows "0.0Ω" with a green LED, while "OL" indicates an open circuit. This mode is ideal for checking fuse/line continuity and verifying switch

functions.

4. Tone On/Off Mode

Allows technicians to use an audible tone to distinguish test results, especially in low-light environments. The tone can be turned off when not needed.

Component Activation Function

The PS100 can activate components both in-hand and in-vehicle by generating positive or negative activation signals. This function helps determine if components like lights, motors, wipers, radiator fans, and relays are in good working order without needing jumper wires.



Image: Demonstrates activating a vehicle component using the PowerScan PS100.

Short Circuit Troubleshooting & Overload Protection

The resettable 10 Amp circuit breaker helps quickly locate short circuits by applying voltage along the line. If an overload occurs, the breaker trips, cutting power and sounding a buzzer, protecting both the tool and the vehicle's electrical system.

Polarity Identification

Instantly identifies positive, negative, and open circuits using red/green LEDs and audible tones. This feature provides quick voltage drop detection for reliable diagnostics.

Signal Circuit Test

In AC mode, connect to the sensor's signal wire and ground. As you operate the sensor (e.g., apply vacuum), view live Max/Min voltage, frequency, and duty cycle on the LCD to confirm proper function.

Key Features and Design

- **Extended Reach:** Comes with a 20-foot long cord plus an additional 20-foot extension cord, allowing convenient testing around longer vehicles and trailers.
- **Illumination:** Dual head lights provide illumination for working in low-light environments.
- **Clear Display:** Highly clear LCD digital backlit display screen with 0.1V resolution for visible digital readouts day and night.
- **Versatile Application:** Supports all 6V-30V electrical systems, including cars, trucks, SUVs, heavy duties, motorcycles, boats, excavators, and trailers.



Image: Illustrates the 20ft extension cable for extended reach during testing.

Maintenance

To ensure the longevity and optimal performance of your Autel PowerScan PS100, follow these maintenance guidelines:

- Keep the tool clean and free from dirt, grease, and moisture. Use a soft, damp cloth for cleaning.
- Store the tool in its protective case when not in use to prevent damage.
- Regularly inspect the cables, connectors, and probe tip for any signs of wear, damage, or corrosion. Replace damaged components immediately.
- Ensure the probe tip is sharp and clean for accurate readings and effective piercing of wires.

Troubleshooting

If you encounter issues with your PowerScan PS100, consider the following common troubleshooting steps:

- **No Power/Display:** Check the power connections to the vehicle battery or cigarette lighter. Ensure the voltage is within the 6-30V operating range. Verify that the circuit breaker has not tripped.
- **Inaccurate Readings:** Ensure the probe tip has good contact with the circuit. Check for corrosion on battery terminals or connectors. Verify the correct operating mode is selected.
- **Circuit Breaker Trips Frequently:** This indicates an overload or short circuit in the tested component or circuit. Disconnect the tool, identify and resolve the short circuit, and allow the tool's internal circuit breaker to cool down and reset (approximately 15 seconds).
- **No Tone/Sound:** Check if the Tone On/Off mode is enabled.

For persistent issues, refer to the detailed user manual (PDF link available on the product page) or contact Autel customer support.

Specifications

Feature	Value
Product Dimensions	1.18 x 1.18 x 0.39 inches; 2.78 Pounds
Item Model Number	A-M017-00-US
Brand	Autel
Power Source	Battery Powered (Vehicle's 6-30V system)
Style	Circuit Testers
Color	Rose

Warranty and Support

Autel provides a 1-year warranty for the PowerScan PS100. For any concerns, technical assistance, or warranty claims, please contact Autel customer service. They offer 24/7 professional customer service to ensure your satisfaction.

Contact information for support is typically found in the included user manual or on the official Autel website.

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.

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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.

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