

Power Probe PP3CSGRN

Power Probe III Clamshell Automotive Diagnostic Test Tool User Manual

Model: PP3CSGRN

1. INTRODUCTION

The Power Probe III Clamshell is a versatile electrical circuit tester designed for diagnosing automotive electrical systems. This tool provides capabilities for testing voltage, current, resistance, and continuity, making it an essential device for automotive technicians and enthusiasts. It operates on 12-24 VDC systems.

2. SAFETY INFORMATION

Always observe the following safety precautions when using the Power Probe III:

- Wear appropriate eye protection.
- Do not use the tool if the cable or insulation is damaged.
- Ensure proper ventilation when working with vehicle batteries.
- Avoid contact with moving engine parts.
- Do not apply power to circuits that could be damaged by direct battery voltage. Always verify the circuit's voltage requirements before applying power.
- Keep the tool away from heat, oil, and sharp objects.

3. PACKAGE CONTENTS

Verify that all items are present in your Power Probe III Clamshell package:

- Power Probe III handheld tool
- 20-foot extension cord
- Battery Hookup Clips
- Probe Tip
- Instruction Manual (this document)
- Sticker



The Power Probe III Clamshell tool and its accessories, including the 20-foot cord and battery hookup clips, displayed in its retail packaging.

4. PRODUCT FEATURES

The Power Probe III is equipped with the following key features:

- **Digital Voltmeter:** Provides precise voltage readings.
- **Min/Max Function:** Captures minimum and maximum voltage readings.

- **Audible Circuit Monitoring:** Alerts the user to circuit status.
- **4mm Standard Banana Jack with Auxiliary Ground:** For comprehensive component testing.
- **12-24 VDC System Compatibility:** Works with a wide range of automotive electrical systems.
- **Power-up Components:** Safely apply positive or negative battery voltage to components.
- **Test for Bad Grounds:** Quickly identify faulty ground connections.
- **Test for Continuity:** Verify circuit integrity.
- **Indicate Pos/Neg Voltage:** Clearly shows polarity.
- **Test Relays:** Facilitates relay testing.





The Power Probe III Clamshell diagnostic tool, shown in green, featuring a digital display, power switch, and probe tip.

5. SETUP

To begin using your Power Probe III, follow these steps to connect it to a vehicle's battery:

1. Ensure the vehicle's ignition is off.
2. Connect the red battery hookup clip to the positive (+) terminal of the vehicle's battery.
3. Connect the black battery hookup clip to the negative (-) terminal of the vehicle's battery.
4. The Power Probe III is now powered and ready for use. The digital display will illuminate, showing the battery voltage.



Diagram illustrating the correct connection of the Power Probe III to a vehicle's 12V battery using the provided battery hookup clips for power.

6. OPERATING INSTRUCTIONS

6.1. Digital Voltmeter

Once connected to the battery, the Power Probe III automatically displays the voltage at the probe tip.

Touch the probe tip to any circuit or component to read its voltage on the digital display.

6.2. Min/Max Voltage Capture

To activate the Min/Max function, press the 'MODE' button until 'MIN/MAX' appears on the display. The tool will then record the lowest and highest voltage readings encountered. Press 'MODE' again to exit this function.

6.3. Audible Circuit Monitoring

The Power Probe III provides an audible tone to indicate circuit status. A high-pitched tone indicates positive voltage, and a low-pitched tone indicates negative voltage or ground. This feature can be toggled on or off using the dedicated button.

6.4. Powering Components

The tool can safely apply positive or negative battery voltage to components for testing. Use the rocker switch to apply voltage:

- Press the rocker switch forward (towards the tip) to apply positive (+) battery voltage.
- Press the rocker switch backward (towards the cable) to apply negative (-) battery voltage (ground).

Caution: Before applying power, ensure the component can safely handle direct battery voltage. Applying incorrect voltage or current can cause damage.

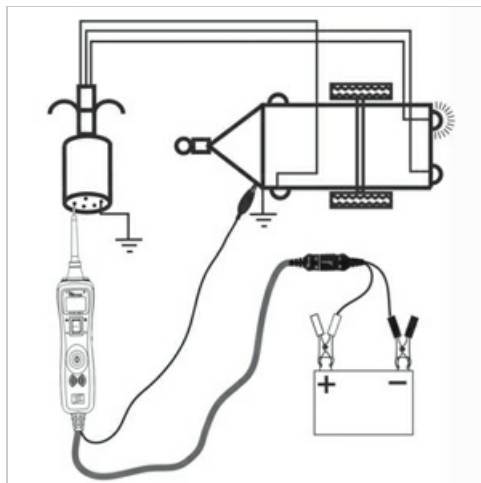


Diagram showing the Power Probe III connected to a vehicle battery and probing an automotive component to test its electrical function.

6.5. Testing for Bad Grounds

To test for a bad ground, connect the tool's auxiliary ground lead to a known good ground. Then, probe the suspected ground point with the tool's tip. If the display shows a voltage reading other than 0V, it indicates a poor or open ground connection.

6.6. Testing for Continuity

To test for continuity, ensure the circuit or component is de-energized. Connect the auxiliary ground lead to one end of the circuit/component and probe the other end with the tool's tip. A 0V reading and an audible tone (if enabled) indicate continuity.

6.7. Indicating Positive/Negative Voltage

The digital display clearly shows the voltage value and its polarity (positive or negative). The LED indicators on the tool also light up red for positive voltage and green for negative voltage/ground.

6.8. Testing Relays

The Power Probe III can be used to test relays by applying power to the relay's coil and checking for continuity across the switch contacts. Refer to the specific relay's wiring diagram for proper connection points.

7. MAINTENANCE

To ensure the longevity and accurate performance of your Power Probe III:

- Clean the tool regularly with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- Inspect the probe tip, cable, and battery clips for any signs of wear or damage before each use. Replace damaged components immediately.
- Store the tool in a clean, dry environment, away from extreme temperatures and direct sunlight.

8. TROUBLESHOOTING

If you encounter issues with your Power Probe III, consider the following:

- **No Power/Display:** Ensure the battery hookup clips are securely connected to a functional 12-24 VDC battery. Check the cable for damage.
- **Inaccurate Readings:** Verify that the probe tip and connections are clean and making good contact. Ensure the vehicle battery is adequately charged.
- **Tool Overheating:** Discontinue use immediately. This may indicate a short circuit or excessive current draw. Allow the tool to cool down and inspect the circuit being tested.

For persistent issues, contact Power Probe customer support.

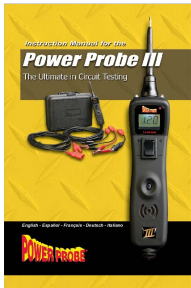
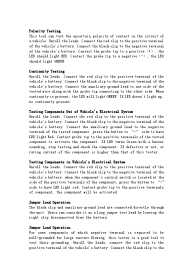
9. SPECIFICATIONS

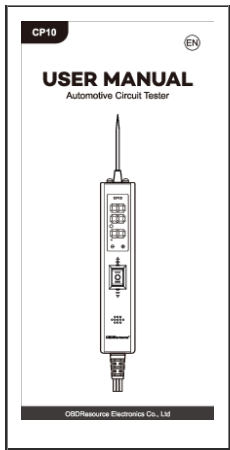
Specification	Value
Model Number	PP3CSGRN
Product Dimensions	7.5 x 2 x 12 inches
Item Weight	1.36 Pounds
Power Source	Battery Powered (12-24 VDC)
Color	Green
Manufacturer	Power Probe

10. WARRANTY AND SUPPORT

Power Probe products are designed for durability and performance. For specific warranty information, please refer to the documentation included with your purchase or visit the official Power Probe website. For technical support, troubleshooting assistance, or to inquire about replacement parts, please contact Power Probe customer service through their official channels.

Related Documents - PP3CSGRN

	TopDiag P100 Automotive Circuit Tester User Manual User manual for the TopDiag P100 Automotive Circuit Tester, detailing its features, specifications, and usage for diagnosing vehicle electrical systems.
	Power Probe III Instruction Manual: Automotive Circuit Testing Guide Comprehensive instruction manual for the Power Probe III (PP3), detailing its features, hook-up procedures, various testing modes (voltage, polarity, continuity, short circuit detection), specifications, and troubleshooting for automotive electrical systems. Includes guidance for professional automotive technicians.
	ANCEL PB100 Vehicle Circuit Probe User Manual Comprehensive user manual for the ANCEL PB100 Automotive Power Circuit Probe Tester. Learn about safety, specifications, tool description, operating instructions, testing procedures, and warranty information for this 12V/24V car electrical diagnostic tool.
	Automotive Circuit Tester User Guide A guide to using the automotive circuit tester for polarity testing, continuity testing, and component testing in vehicles. Includes specifications and safety notes.
	VDIAGTOOL V200 Pro User Manual: Automotive Circuit Probe & Breaker Finder Kit Comprehensive user manual for the VDIAGTOOL V200 Pro, an automotive circuit probe and breaker finder kit designed for efficient diagnosis of 6-30V DC vehicle electrical systems. Learn about its features, specifications, operating instructions, and safety guidelines.

	OBDResource CP10 Automotive Circuit Tester User Manual Comprehensive user manual for the OBDResource CP10 automotive circuit tester, detailing its features, functions, and usage for diagnosing vehicle electrical systems.
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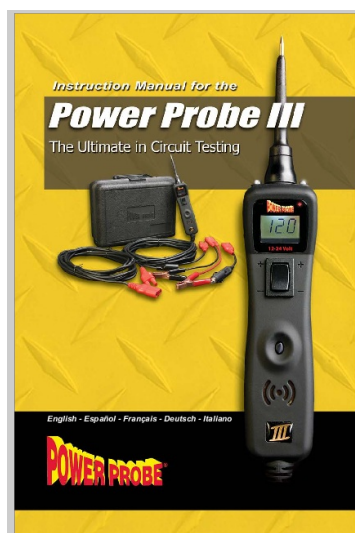
Documents - Power Probe – PP3CSGRN



[Power Probe Product Catalog 2022 - Automotive Diagnostic Tools](#)

Explore the comprehensive 2022 product catalog from Power Probe, featuring a wide range of innovative automotive diagnostic tools, circuit testers, multimeters, soldering equipment, and lighting solutions designed for professional technicians.

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