

Power Probe PPROKIT01

Power Probe Professional Electrical Test Kit PPROKIT01 User Manual

Model: PPROKIT01

1. OVERVIEW

The Power Probe Professional Electrical Test Kit (PPROKIT01) is designed to provide comprehensive circuit testing and diagnostic capabilities. This kit includes the Power Probe III Circuit Tester and the CAT-IV 600V Hybrid Safe Digital Multimeter (PPDMM), along with various accessories to facilitate a wide range of electrical diagnostic tasks.



Figure 1.1: Power Probe Professional Electrical Test Kit PPROKIT01 with all components displayed.

Key Features:

- Supplies Power and Ground for Functional Component Testing
- CAT-IV 600V Hybrid Safe AC/DC Voltmeter
- Measures Resistance to 60M Ohms
- Measures Current from .001 Amps to 10 Amps
- Measures Temperatures from -4°F to 1832°F (-20°C to 1000°C)

2. SAFETY INFORMATION

Always observe the following safety precautions when using the Power Probe Professional Electrical Test Kit:

- Wear appropriate eye protection.
- Do not use the tool if it appears damaged.
- Ensure proper insulation and avoid contact with live circuits.
- Connect the tool to a power source within its specified voltage range (12V-24V DC for Power Probe III).

- Avoid using the tool in damp or wet conditions.
- Refer to the vehicle's service manual for specific electrical system information.
- This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

3. PACKAGE CONTENTS

The Power Probe Professional Electrical Test Kit (PPROKIT01) includes the following items:

- Power Probe III Circuit Tester
- Power Probe Digital Multimeter (PPDMM)
- Instruction Manuals for both devices
- 10 Amp Fuse (MMF1)
- 600A Fuse (PPF600)
- Alligator Clip (X2) [PN024]
- Probe Tip (PP3TIPBLU)
- Battery Hookup (PP3EXT065)
- 4mm Male-Male Adapter (X2) [PNLS022]
- 10' Lead Black (PNLS060-BLK)
- 10' Lead Red (PNLS060-RED)
- Test Leads for PPDMM (PPDMM-02)
- K-Type Temp Probe (PPDMM-03)
- AAA Batteries (3 for PPDMM)
- AA Batteries (4 for Power Probe III)
- Back Probe Adapter (AA5)



Figure 3.1: Kit contents organized within the protective carrying case.

4. SETUP

4.1 Power Probe III Connection

To power the Power Probe III, connect its power leads to a 12V or 24V vehicle battery. The red lead connects to the positive (+) terminal, and the black lead connects to the negative (-) terminal.

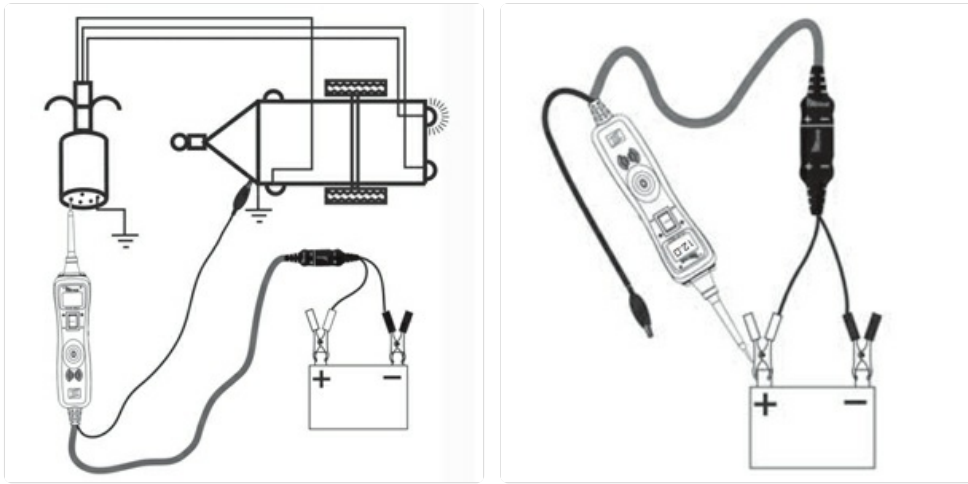


Figure 4.1: Connecting the Power Probe III to a vehicle battery for power.

4.2 PPDMM Battery Installation

The PPDMM requires three AAA batteries for operation. Open the battery compartment on the back of the multimeter and insert the batteries according to the polarity indicators. Securely close the compartment.

5. OPERATING INSTRUCTIONS

5.1 Using the Power Probe III

The Power Probe III allows for quick testing of electrical circuits by providing power or ground to components. Once connected to a vehicle battery, the tool's tip can be used to probe circuits. The display will show voltage readings.

- **Voltage Testing:** Touch the probe tip to the circuit point. The LCD will display the voltage.
- **Power/Ground Supply:** Use the rocker switch to apply battery voltage (forward) or ground (backward) to a component for functional testing. **Caution:** Ensure the component can handle direct battery voltage or ground before applying.
- **Continuity Testing:** With the tool powered, touch the probe tip to a ground source. If the circuit is continuous, the tool will indicate continuity.



Figure 5.1: Example of using the Power Probe III to test a circuit.

5.2 Using the PPDMM Digital Multimeter

The PPDMM is a versatile multimeter for precise measurements of voltage, resistance, current, and temperature.



Figure 5.2: Front and side views of the PPDMM, highlighting its display and input jacks.

- **Voltage Measurement (AC/DC):**

1. Turn the rotary dial to the desired ACV or DCV range.
2. Connect the red test lead to the "VΩmA" jack and the black test lead to the "COM" jack.
3. Touch the probe tips to the circuit points to measure voltage.

- **Resistance Measurement:**

1. Turn the rotary dial to the "Ω" (Ohms) range.
2. Connect the red test lead to the "VΩmA" jack and the black test lead to the "COM" jack.
3. Touch the probe tips to the component to measure resistance. Ensure the circuit is de-energized.

- **Current Measurement:**

1. Turn the rotary dial to the "A" (Amps) range.
2. Connect the red test lead to the "10A" or "mA" jack (depending on expected current) and the black test lead to the "COM" jack.
3. Break the circuit and connect the multimeter in series with the circuit to measure current.

- **Temperature Measurement:**

1. Turn the rotary dial to the "°C/°F" range.
2. Connect the K-Type temperature probe to the designated jacks.
3. Place the tip of the temperature probe on the surface or in the medium to be measured.

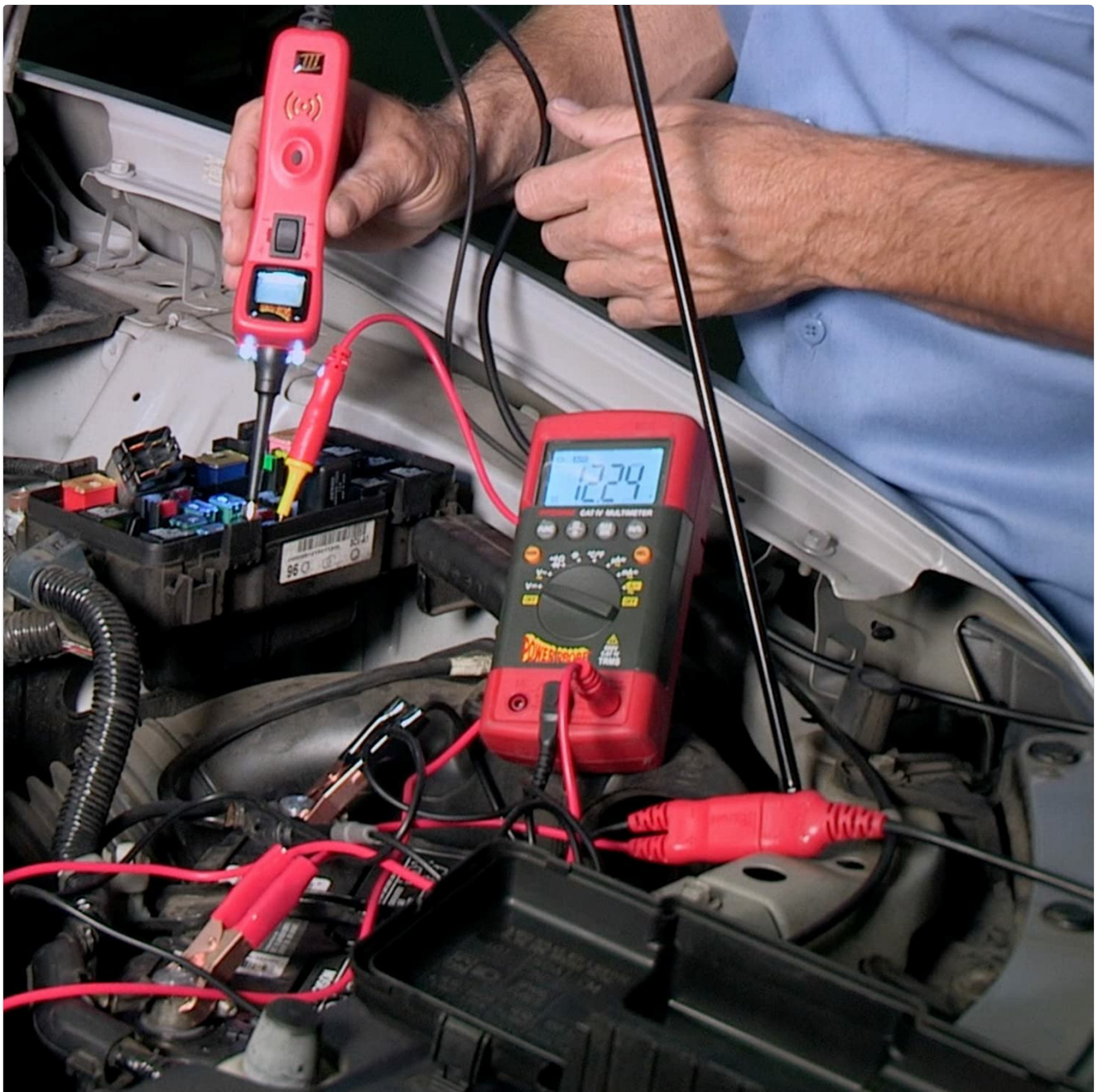


Figure 5.4: Combined use of Power Probe III and PPDM for comprehensive testing.

6. MAINTENANCE

6.1 Cleaning

Wipe the tools with a damp cloth. Do not use abrasive cleaners or solvents. Ensure the tools are dry before storage.

6.2 Battery Replacement

Replace the AAA batteries in the PPDM when the low battery indicator appears on the display. For the Power Probe III, ensure the vehicle battery connection is secure and providing adequate power.

6.3 Fuse Replacement

If the Power Probe III or PPDM ceases to function due to an overload, check and replace the internal fuses as per the specific instructions in their individual manuals. Always use fuses of the correct rating.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Power Probe III does not power on.	Incorrect battery connection; vehicle battery discharged; blown fuse.	Verify red lead to positive, black lead to negative. Check vehicle battery voltage. Inspect and replace fuse if necessary.
PPDMM display is blank or dim.	Low or dead batteries; incorrect battery installation.	Replace AAA batteries. Ensure batteries are inserted with correct polarity.
Inaccurate readings on PPDMM.	Incorrect measurement range selected; poor test lead connection; damaged test leads.	Select appropriate range. Ensure test leads are securely connected. Inspect test leads for damage and replace if needed.
Power Probe III does not supply power/ground.	Blown internal fuse; insufficient power from vehicle battery.	Check and replace the internal fuse. Ensure the vehicle battery is fully charged.

8. SPECIFICATIONS





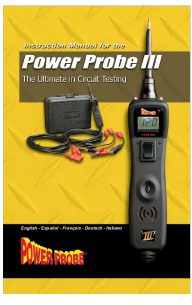
- **Model Number:** PPROKIT01
- **Brand:** Power Probe
- **Power Source:** Corded Electric (Power Probe III), Battery (PPDMM)
- **Batteries:** 3 AAA batteries required (included) for PPDMM. Power Probe III operates from vehicle 12V/24V DC.
- **Product Dimensions:** 12 x 14 x 3 inches
- **Item Weight:** 4.8 Pounds
- **Voltage Measurement:** CAT-IV 600V AC/DC
- **Resistance Measurement:** Up to 60M Ohms
- **Current Measurement:** 0.001 Amps to 10 Amps
- **Temperature Measurement:** -4°F to 1832°F (-20°C to 1000°C)
- **Date First Available:** July 29, 2015

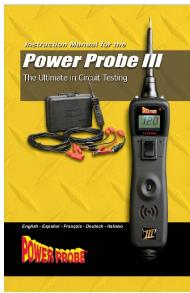
9. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please refer to the specific warranty documentation included with your product or visit the official Power Probe website. Keep your purchase receipt as proof of purchase.

Manufacturer: Power Probe

Contact: Refer to [Power Probe Store on Amazon](#) or the official Power Probe website for support resources.

	<p>Power Probe PPDMM Digital Multimeter User Manual</p> <p>Comprehensive user manual for the Power Probe PPDMM Digital Multimeter, detailing its features, specifications, safety precautions, and operating instructions for various measurements.</p>
	<p>Power Probe III S Instruction Manual: Ultimate Circuit Testing</p> <p>Comprehensive instruction manual for the Power Probe III S (PP3S), detailing its features for diagnosing 12-24V automotive electrical systems, including hook-up, self-testing, voltage and polarity testing, continuity checks, component activation, troubleshooting short circuits, and advanced operational modes.</p>
	<p>Power Probe Basic User Manual: Automotive Circuit Testing Guide</p> <p>User manual for the Power Probe Basic circuit tester, detailing its features, safety precautions, and usage for automotive electrical testing, continuity checks, and component activation.</p>
	<p>Power Probe Fuse Monitor User Manual: Features, Operation, and Specifications</p> <p>This user manual provides comprehensive details on the Power Probe Fuse Monitor, covering its features, operating instructions, status indicators, charging methods, and technical specifications for automotive circuit testing.</p>
	<p>Power Probe III Instruction Manual: Automotive Circuit Testing Guide</p> <p>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.</p>



[Power Probe III Instruction Manual: The Ultimate in Circuit Testing](#)

Comprehensive instruction manual for the Power Probe III (PP3), a revolutionary circuit tester designed for diagnosing 12 to 24 volt automotive electrical systems. Learn about its features, modes, and how to use it for voltage and polarity testing, continuity testing, activating components, and troubleshooting short circuits.