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## Power Probe PP319FTCRED

# Power Probe III User Manual

Automotive Diagnostic Test Tool, Digital Volt Meter, AC/DC Current Resistance, Circuit Tester

Model: PP319FTCRED

## 1. INTRODUCTION

The Power Probe III is a versatile automotive diagnostic tool designed to simplify electrical system testing. It provides the ability to supply power or ground, test continuity, measure voltage, and perform component testing with ease. This manual will guide you through the proper setup, operation, and maintenance of your Power Probe III to ensure safe and effective use.

## 2. SAFETY INFORMATION

**WARNING: Always observe safety precautions when working with automotive 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 Power Probe III on AC voltage or household wiring. It is designed for 12-24 Volt DC automotive systems only.
- Ensure the vehicle's ignition is off and the parking brake is engaged before connecting the tool, unless specific tests require power.
- Avoid touching live electrical components with bare hands.
- Do not probe wires or components that could be damaged by applying power or ground. Consult vehicle service manuals for proper testing procedures.
- The built-in circuit breaker protects the tool from overloads. If it trips, allow it to cool before resetting.

## 3. WHAT'S IN THE BOX

Your Power Probe III kit includes the following components:

- Power Probe III Unit (Red)
- 20-foot Extension Cable
- Battery Hook-up Clips
- Cigarette Lighter Adapter

- Instruction Manual (this document)
- Durable Storage Case



*Image: The complete Power Probe III kit, including the main unit, cables, and storage case.*

## 4. PRODUCT COMPONENTS

Familiarize yourself with the key components of the Power Probe III:



Image: Detailed diagram of the Power Probe III unit, highlighting its various parts such as the probe tip, LCD display, power switch, and polarity indicators.

- **Probe Tip:** Sharp, pointed tip for piercing insulation or contacting terminals.
- **Dual Head Lights:** Illuminates the work area.
- **Red/Green Polarity Indicators:** Red indicates positive voltage, Green indicates ground.
- **LCD Display / Voltmeter:** Shows voltage readings and other information.
- **Power Switch:** Rocker switch to apply positive or negative voltage to the probe tip.
- **Circuit Breaker Reset:** Button to reset the internal 8 Amp circuit breaker after an overload.
- **Mode Button:** Cycles through different testing modes (e.g., continuity).
- **Speaker:** Provides audible feedback for certain functions.

## 5. SETUP

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### 1. Connect to Power:

- Attach the battery hook-up clips to the vehicle's battery terminals (Red to positive, Black to negative).
- Alternatively, use the cigarette lighter adapter for power from the vehicle's accessory port.

2. **Verify Connection:** Once connected, the Power Probe III's LCD display should illuminate, showing the vehicle's battery voltage. The polarity indicators will also light up (Green for ground, Red for positive).

3. **Extend Reach (Optional):** If needed, connect the 20-foot extension cable between the Power Probe III unit and the power source connection.

## 6. OPERATING INSTRUCTIONS

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### 6.1. Voltage Testing (DC Voltmeter)

Simply touch the probe tip to any circuit or component. The LCD display will show the voltage reading. The Red/Green polarity indicators will instantly show if the circuit is positive (Red) or ground (Green).

### 6.2. Supplying Power or Ground

The Power Probe III can safely supply power or ground to components for functional testing.

- **To supply positive voltage:** Touch the probe tip to the component's terminal. Press the top part of the Power Switch (towards the probe tip). The Red polarity indicator will light up, and the LCD will show the applied voltage.
- **To supply ground:** Touch the probe tip to the component's terminal. Press the bottom part of the Power Switch (away from the probe tip). The Green polarity indicator will light up.

**CAUTION: Do not apply power or ground to sensitive electronic components without consulting a service manual. Always be aware of the current draw to avoid tripping the circuit breaker or damaging components.**



*Image: The Power Probe III in use, demonstrating how to apply the probe tip to an automotive component for testing.*

### 6.3. Continuity Testing

To test for continuity, press the Mode Button until the continuity symbol ( $\Omega$ ) appears on the LCD. Touch the probe tip to one end of the circuit and connect the auxiliary ground lead (if applicable) to the other end. A low resistance reading and an audible tone indicate continuity.

### 6.4. Circuit Breaker Operation

The Power Probe III features an 8 Amp resettable circuit breaker. If the tool detects an overload (e.g., a short circuit), the breaker will trip, cutting power to the probe tip. To reset, simply press the Circuit Breaker Reset button. Allow a few moments for the breaker to cool if it trips repeatedly.

## 7. MAINTENANCE

- **Cleaning:** Wipe the tool with a clean, damp cloth. Do not use abrasive cleaners or solvents.
- **Probe Tip:** Keep the probe tip clean and sharp. Replace if it becomes dull or damaged.
- **Storage:** Store the Power Probe III and its accessories in the provided durable case when not in use. This

protects the tool from dust, dirt, and physical damage.



Image: The Power Probe III and its components stored securely within the protective carrying case.

## 8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Tool does not power on.	No power from vehicle battery/cigarette lighter; poor connection.	Check battery connections; ensure cigarette lighter port is active; test power source with a known good device.
Circuit breaker trips frequently.	Short circuit in component/wiring; excessive current draw.	Inspect component/wiring for shorts; ensure component is rated for 8 Amps or less; do not force power through a short.
Incorrect voltage reading.	Poor contact with circuit; faulty connection to power source.	Ensure firm contact with the circuit; check all cable connections.

Problem	Possible Cause	Solution
No continuity reading.	Open circuit; poor connection.	Verify the circuit is complete; ensure good contact with both ends of the circuit.

## 9. SPECIFICATIONS

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- **Brand:** Power Probe
- **Model:** PP319FTCRED
- **Power Source:** Corded Electric (12-24 Volt DC)
- **Cable Length:** 20 Feet
- **Circuit Breaker:** 8 Amp, Resettable
- **Functions:** DC Voltmeter, Power/Ground Supply, Continuity Tester, Component Tester
- **Color:** Red
- **Item Weight:** 2.1 Pounds

## 10. WARRANTY AND SUPPORT

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For detailed warranty information and technical support, please refer to the official Power Probe website or contact their customer service directly. Keep your purchase receipt as proof of purchase.

No official product videos were found with the specified creator type ("Seller") in the provided data to embed in this manual.