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Model: PPPP02

1. INTRODUCTION

The Power Probe PPPP02 Yellow Wire Piercing Probe is designed for efficient and safe electrical testing on automotive wiring. This large, self-centering probe allows technicians to quickly establish a connection to a wire without requiring extensive insulation stripping, making it ideal for diagnostic work. It is compatible with standard 4mm banana jack fittings found on many multimeters and test equipment.



Figure 1: The Power Probe PPPP02 Yellow Wire Piercing Probe. This image shows the yellow body of the probe with its adjustable piercing mechanism and the 4mm banana plug fitting at the base.

2. SAFETY INFORMATION

Always observe the following safety precautions when using electrical testing equipment:

- Ensure the vehicle's ignition is off and the battery is disconnected if working on high-current circuits, unless specific live

testing is required.

- Wear appropriate personal protective equipment, including safety glasses.
- Do not use the probe on circuits exceeding its voltage or current rating (refer to your connected test equipment's specifications).
- Avoid touching live electrical components with bare hands.
- Inspect the probe for any damage before each use. Do not use if damaged.

3. PACKAGE CONTENTS

Verify that the following item is included in your package:

- 1 x Power Probe PPPP02 Yellow Wire Piercing Probe

4. FEATURES

The Power Probe PPPP02 offers the following key features:

- **4mm Standard Banana Jack Fitting:** Ensures compatibility with most standard test leads and multimeters.
- **7.5" Probe Tip:** Provides extended reach for accessing wires in confined spaces.
- **Self-Centering Mechanism:** Automatically aligns the piercing needle for accurate and secure contact with the wire.
- **Adjustable Design:** Accommodates various wire sizes for versatile application.
- **Wide Wire Gauge Compatibility:** Safely handles wires ranging from 18 to 8 gauge.

5. SETUP

1. **Connect to Test Equipment:** Insert the 4mm banana plug of your test lead (connected to a multimeter or other diagnostic tool) into the 4mm banana jack fitting at the base of the PPPP02 probe. Ensure a secure connection.
2. **Prepare Test Equipment:** Set your multimeter or test device to the appropriate function (e.g., voltage, resistance, continuity) for the test you intend to perform.

6. OPERATING INSTRUCTIONS

Follow these steps to use the Power Probe PPPP02:

1. **Identify Target Wire:** Locate the wire you need to test. Ensure it is within the probe's compatible gauge range (18-8 gauge).
2. **Open Probe Jaws:** Rotate the thumbscrew on the probe to open the jaws sufficiently to encompass the target wire.
3. **Position Probe:** Place the probe over the wire, ensuring the wire is seated within the jaws.
4. **Engage Piercing Needle:** Slowly tighten the thumbscrew. As you tighten, the self-centering mechanism will guide the piercing needle to penetrate the wire's insulation and make contact with the conductor. Do not overtighten.
5. **Perform Test:** Once the probe is securely attached and making contact, perform your desired electrical test using your connected diagnostic equipment.
6. **Remove Probe:** After testing, loosen the thumbscrew to retract the piercing needle and open the jaws. Carefully remove the probe from the wire.

Note: The small puncture made by the probe is typically self-sealing in many modern automotive wire insulations. However, for critical circuits or in environments exposed to moisture, it is recommended to seal the puncture with liquid electrical tape or similar sealant after testing.

7. MAINTENANCE

- **Cleaning:** After each use, wipe the probe clean with a dry, lint-free cloth. If necessary, use a mild, non-abrasive cleaner. Ensure no residue remains.
- **Inspection:** Regularly inspect the piercing needle for sharpness and any signs of bending or damage. Check the probe body for cracks or wear.
- **Storage:** Store the probe in a clean, dry environment, away from extreme temperatures and direct sunlight.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
No reading on multimeter	Poor connection to wire Damaged probe tip Incorrect multimeter setting Faulty test lead	Ensure probe is fully engaged and piercing the conductor. Inspect probe tip for damage; replace if necessary. Verify multimeter is set to the correct function and range. Check test lead for continuity.
Probe not gripping wire	Wire too small/large Thumbscrew not tightened	Ensure wire is within 18-8 gauge range. Tighten thumbscrew until probe securely grips the wire and pierces insulation.

9. SPECIFICATIONS

Model Number	PPPP02
Probe Tip Length	7.5 inches
Connector Type	4mm Standard Banana Jack
Wire Gauge Compatibility	18 - 8 AWG
Item Weight	1.6 ounces
Product Dimensions	10.75 x 4.5 x 0.5 inches
Manufacturer	Power Probe

10. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries regarding your Power Probe PPPP02, please contact Power Probe customer service directly. Refer to the official Power Probe website or product packaging for the most current contact details and warranty terms.

You can visit the Power Probe store on Amazon for more products and information:[Power Probe Store](#).

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