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Proster PST175b

Proster Multi Test Leads Kit (Model PST175b) Instruction Manual

Brand: Proster | Model: PST175b

1. SAFETY INFORMATION

Always observe basic safety precautions when using electrical test equipment to reduce the risk of fire, electric shock, or personal injury.

- **Rated Category:** This test leads kit is rated CAT III 1000 V, 20 A. Ensure your multimeter and application match or are below these ratings.
- **Inspect Before Use:** Before each use, inspect the test leads and accessories for any damage, cracks, or exposed wiring. Do not use if damaged.
- **Proper Connection:** Always connect the common (black) test lead first, then the live (red) test lead. When disconnecting, remove the live (red) test lead first, then the common (black) test lead.
- **Insulation:** Ensure all connections are fully insulated to prevent accidental contact with live circuits.
- **Avoid Contact:** Do not touch the metal parts of the probes or clips when connected to a circuit.
- **Use Correctly:** Use the appropriate test lead and accessory for the specific measurement and voltage/current level.

2. PRODUCT OVERVIEW

The Proster Multi Test Leads Kit provides a versatile set of accessories for electrical testing with multimeters, clamp meters, and other test instruments. It includes various interchangeable tips and connectors to expand testing capabilities.

Package Contents (21-piece set)

Item	Quantity
Test Leads (PVC insulated)	2
Test Probe Tips (replaceable)	8
Probe Tip Caps	2
Mini Spring Test Hook Clips	2
Crocodile Clips (Alligator Clips)	2
Banana Plugs	2
Spade Plugs	2
SMD Patch Test Clip	1



Image: All components included in the Proster Multi Test Leads Kit, laid out for inspection.

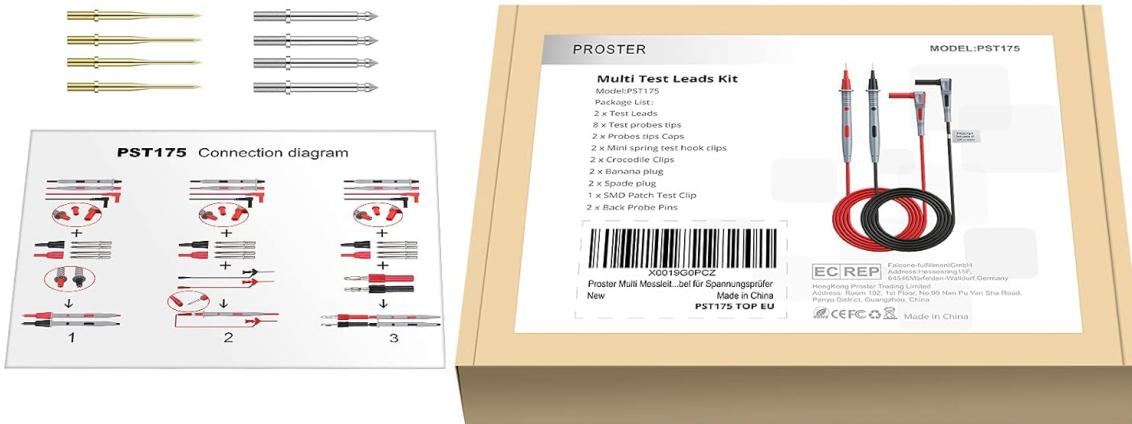


Image: The Proster Multi Test Leads Kit neatly packaged in its box, showing the various components.

3. SETUP INSTRUCTIONS

Attaching Test Probe Tips

The test leads feature removable tips, allowing for various testing scenarios. To change a tip:

1. Gently pull off the existing probe tip or protective cap from the test lead.
2. Select the desired replaceable tip (e.g., needle tip, banana plug, spade plug).
3. Firmly push the new tip onto the end of the test lead until it is securely seated.
4. Ensure a snug fit to maintain proper electrical contact and safety.



You Can Choose Suitable Pen Tips

Depend on Testing Job

Image: A hand demonstrating the process of attaching different interchangeable probe tips to the test leads, showing various tip types.

Video: This video demonstrates how to assemble and interchange the various components of the Proster Multi Test Leads Kit, including attaching different probe tips and clips.

Video: A detailed demonstration of the assembly process for the 21-in-1 Electrical Multimeter Test Lead kit, showing how each component connects.

4. OPERATING INSTRUCTIONS

Connecting to a Multimeter

The main test leads connect to your multimeter via standard banana plugs. Insert the black lead into the 'COM' (common) jack and the red lead into the appropriate input jack for your measurement (e.g., 'VΩmA' for voltage, resistance, or current).



Connection Diagram

Image: A visual connection diagram illustrating how to properly connect the test leads to a multimeter for various measurements.

Using Different Attachments

The kit includes various attachments for different testing needs:

- **Alligator Clips:** These clips provide a secure, hands-free connection to terminals or wires. Simply attach them to the probe tips or banana plugs.
- **Mini Spring Test Hook Clips:** Ideal for connecting to small components or wires where a delicate, yet firm, grip is needed.
- **Banana Plugs & Spade Plugs:** Use these for connecting to banana jacks or screw terminals, respectively.
- **SMD Patch Test Clip:** Designed for testing surface-mount devices on circuit boards, offering precision and stability.

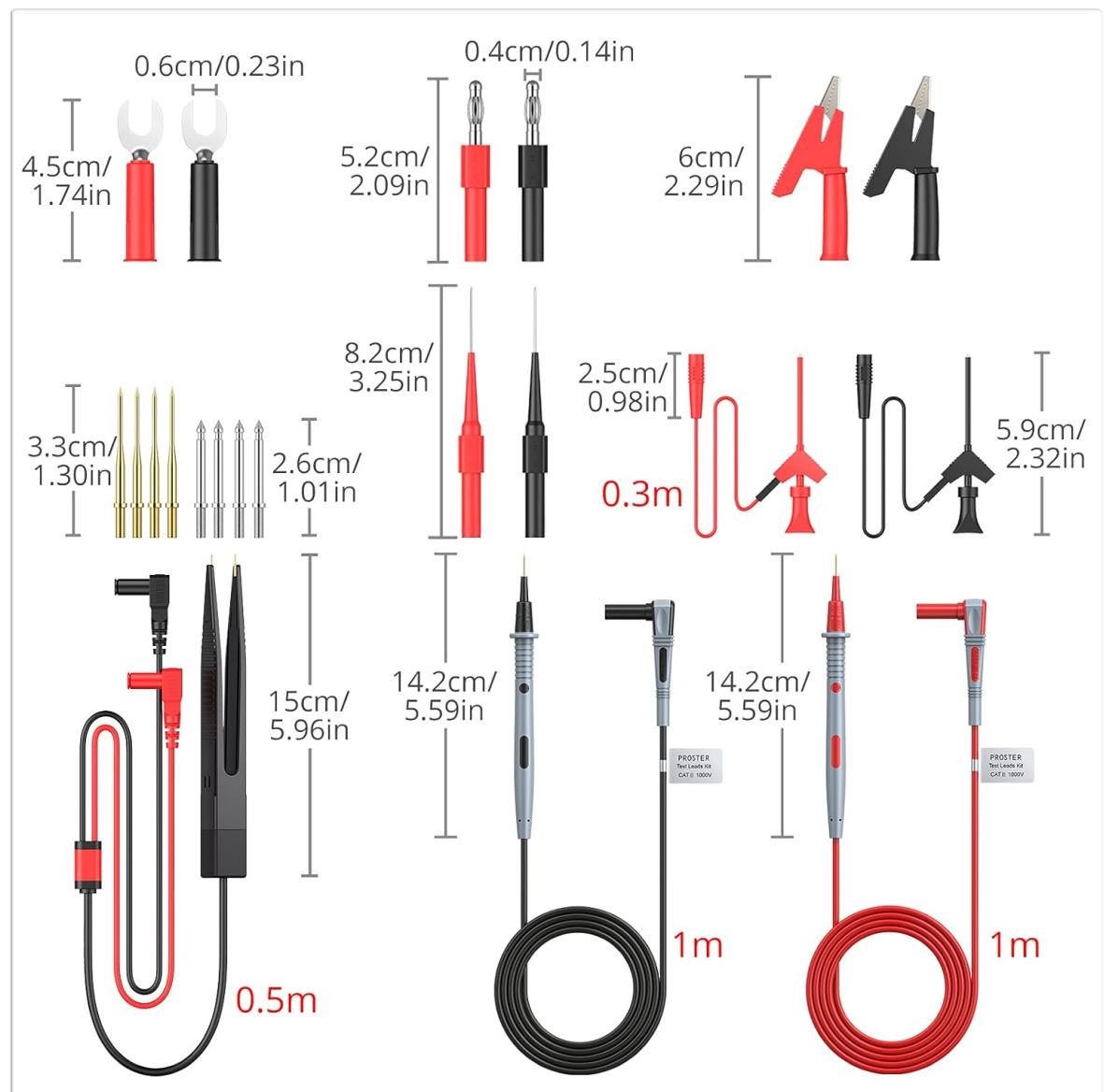


Image: A detailed view of the various test lead attachments, including alligator clips, banana plugs, spade plugs, and different probe tips, with their respective dimensions.

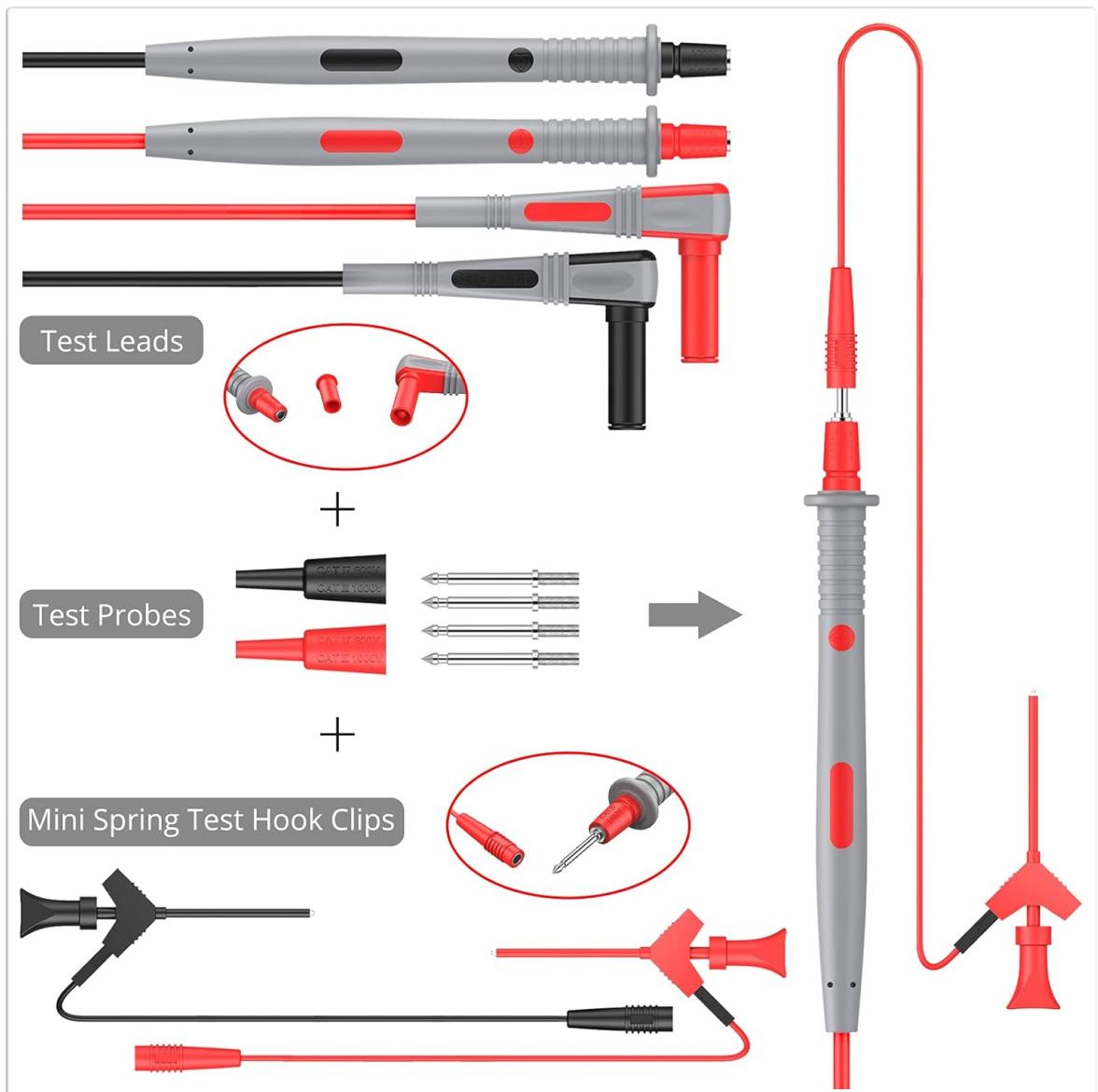


Image: The test leads shown with mini spring test hook clips attached, demonstrating their use for small connections.



Image: The test leads configured with banana plugs and crocodile clips, illustrating their adaptability for different connection types.

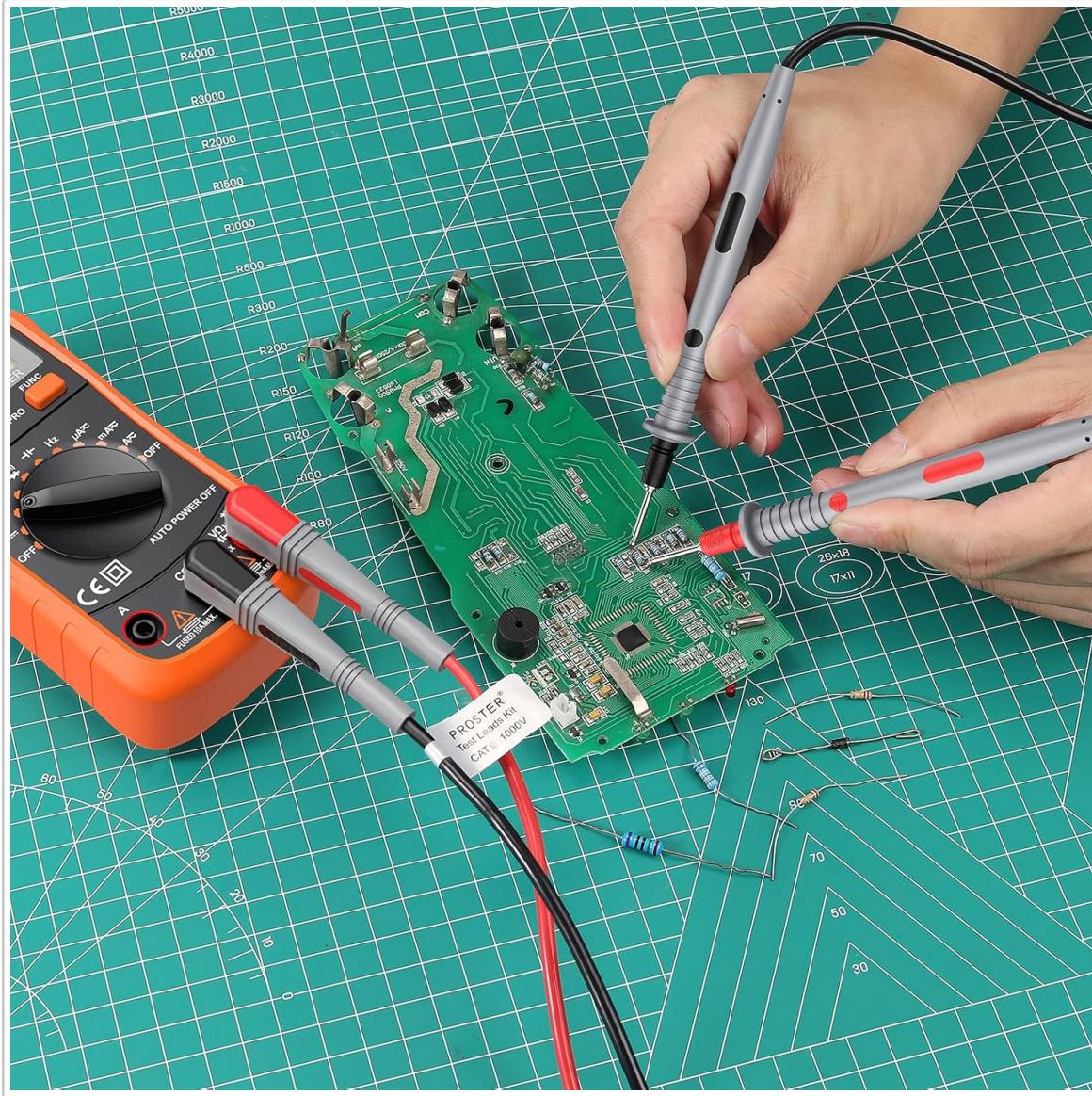


Image: The SMD patch test clip shown in use, demonstrating its application for testing surface-mount components on a circuit board.

Double Insulation, Reliable and Secure



Image: A person using the test probes to measure points on a circuit board, highlighting the precision of the tips.

Video: This video demonstrates the application of the Proster Multimeter Test Alligator Clips and Test Probes in various electrical testing scenarios.

Video: A demonstration of the Proster Electrical Multimeter Leads being used for voltage circuit testing, showcasing their flexibility and ease of use.

5. MAINTENANCE

- **Cleaning:** After each use, wipe the test leads and accessories with a clean, dry cloth to remove any dirt, dust, or residue. Do not use abrasive cleaners or solvents.
- **Storage:** Store the test leads kit in a cool, dry place, away from direct sunlight and extreme temperatures. Use the provided carrying case to keep all components organized and protected.
- **Inspection:** Regularly inspect the leads for any signs of wear, cuts, or damage to the insulation. Replace any damaged components immediately to ensure safety and accurate measurements.

6. TROUBLESHOOTING

- **Inaccurate Readings:** Ensure all connections are secure and clean. Check that the correct test lead tips are used for the measurement. Verify your multimeter settings are appropriate for the circuit being tested.
- **No Reading/Open Circuit:** Check for continuity in the test leads themselves by touching the tips together (if your multimeter has a continuity function). Ensure the leads are fully inserted into the multimeter and the circuit points.
- **Damaged Leads:** If any part of the test lead or accessory is visibly damaged (e.g., frayed wire, cracked insulation), discontinue use immediately and replace the affected component.

7. SPECIFICATIONS

- **Model Number:** PST175b
- **Safety Rating:** CAT III 1000 V, 20 A
- **Test Lead Material:** Double Insulation PVC
- **Banana Plug Diameter:** Standard
- **Item Weight:** 0.25 Kilograms (8.82 ounces)
- **Color:** Black & Red
- **Manufacturer:** Proster Trading Limited
- **First Available Date:** November 23, 2020

8. WARRANTY AND SUPPORT

For warranty information, technical support, or inquiries regarding your Proster Multi Test Leads Kit, please refer to the official Proster website or contact their customer service directly. Keep your purchase receipt for warranty claims.

For additional resources and product information, visit the [Proster Store on Amazon](#).