

ZIBOO KIT-12

ZIBOO KIT-12 Multimeter Test Leads Kit User Manual

Model: KIT-12

1. INTRODUCTION

The ZIBOO KIT-12 Multimeter Test Leads Kit is a versatile accessory set designed to enhance the capabilities of various electrical testing instruments, including digital multimeters, voltmeters, and clamp meters. This kit provides a comprehensive range of connectors and probes for diverse testing applications in electrical, industrial, and electronic environments.

The kit includes a variety of components such as alligator clips, piercing needles, flexible test hook clips, and heavy-duty test probes, all designed for safe and accurate measurements.

2. SAFETY INFORMATION

Important Safety Precautions: Always adhere to the safety guidelines of your primary testing instrument (multimeter, oscilloscope, etc.) when using these test leads.

- This test lead kit is rated for CAT III 1000V and CAT IV 600V, ensuring safety for high voltage applications.
- Ensure all connections are secure before applying power or taking measurements.
- Inspect test leads and probes for any damage (cracks, frayed insulation) before each use. Do not use damaged equipment.
- Avoid touching exposed metal parts of the probes or leads when connected to live circuits.
- Use appropriate personal protective equipment (PPE) such as safety glasses and insulated gloves when working with electrical circuits.

3. PACKAGE CONTENTS

The ZIBOO KIT-12 includes the following components:

- 2 x Heavy Duty Test Probe Handles (Red + Black) with 0.16" (4mm) Banana Plug
- 2 x Piercing Needle Non-destructive Test Probes (Red + Black)
- 2 x High Voltage Flexible Test Hook Clips (Red + Black)
- 2 x PVC Lead Extensions, 39" (Red + Black)

- 2 x Alligator Clips (Red + Black)
- 1 x 3-compartment storage pouch



Image: Overview of the ZIBOO KIT-12 Multimeter Test Leads Kit components.

4. SETUP AND CONNECTION

The ZIBOO KIT-12 components are designed for easy interchangeability and compatibility with standard testing equipment.

4.1 Connecting Test Leads to a Multimeter

1. Identify the red and black PVC Lead Extensions.
2. Insert the banana plugs of the red lead into the positive (+) or voltage/resistance input jack of your multimeter.
3. Insert the banana plugs of the black lead into the common (COM) input jack of your multimeter.
4. Ensure connections are firm and fully seated.



Image: Illustration of connecting test leads to a multimeter.

4.2 Attaching Probes and Clips

All probes and clips in the KIT-12 accept standard 4mm banana plugs, allowing them to be connected to the PVC Lead Extensions or directly to compatible test probes.

- **Heavy Duty Test Probes:** These are the primary probes for general measurements. They can be used directly or with other accessories attached to their tips.
- **Alligator Clips:** Attach these to the ends of the PVC Lead Extensions or test probes for hands-free connection to terminals or wires. The jaw opening is approximately 1.38 inches.

Insulated alligator clips



Image: Insulated alligator clips with measurements.

- **Piercing Needle Non-destructive Test Probes:** These probes feature a sharp point (diameter Ø2mm, 3mm long) designed to pass between weather pack seals and wires for non-destructive testing.



Image: Piercing needle probes with detailed measurements.

- **High Voltage Flexible Test Hook Clips:** These clips (158mm length) provide a flexible connection to wires and terminals, featuring a long, sharp stainless steel tip and a flexible spring.

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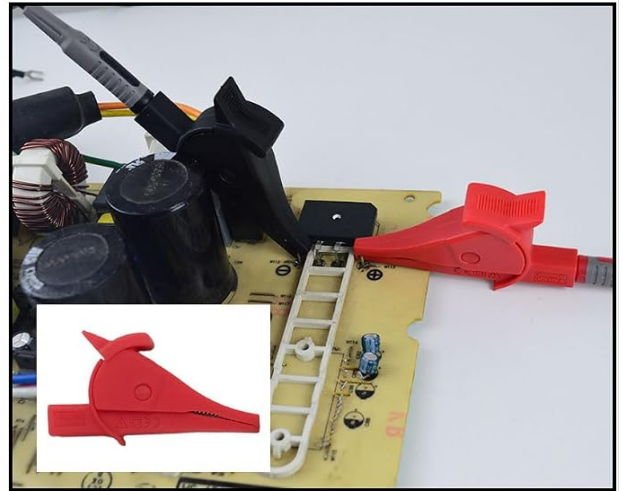
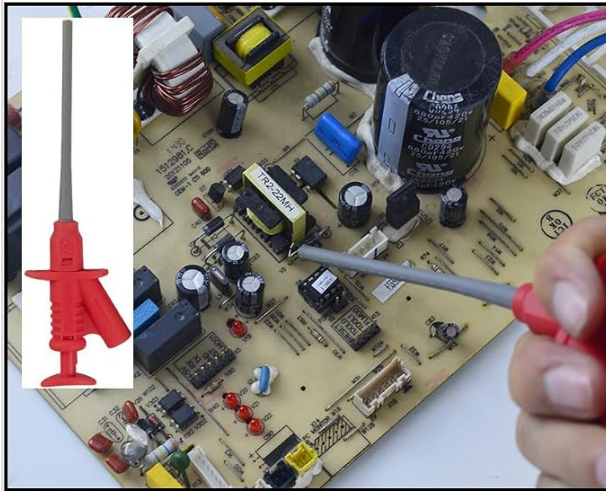


Image: High voltage flexible test hook clips in use.

5. OPERATING INSTRUCTIONS

Once the test leads and desired probes/clips are securely connected to your multimeter, you can proceed with measurements. Always refer to your multimeter's user manual for specific measurement procedures.

- **General Testing:** Use the Heavy Duty Test Probes for most standard voltage, current, and resistance measurements.
- **Hands-Free Testing:** Employ the Alligator Clips when you need to maintain a connection without holding the probes, such as when monitoring a circuit over time.
- **Non-Destructive Wire Testing:** The Piercing Needle Probes are ideal for testing signals on insulated wires without cutting the insulation, by carefully inserting the needle through the wire's jacket.
- **Component Connection:** The Flexible Test Hook Clips are useful for connecting to small components, IC pins, or terminals where a secure, temporary connection is needed.

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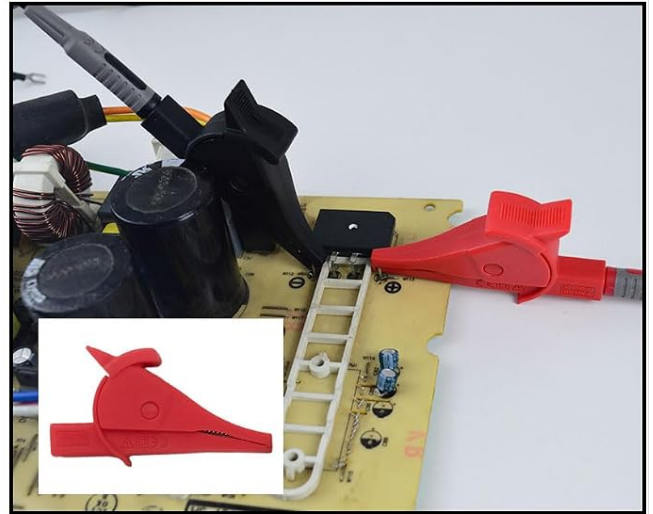
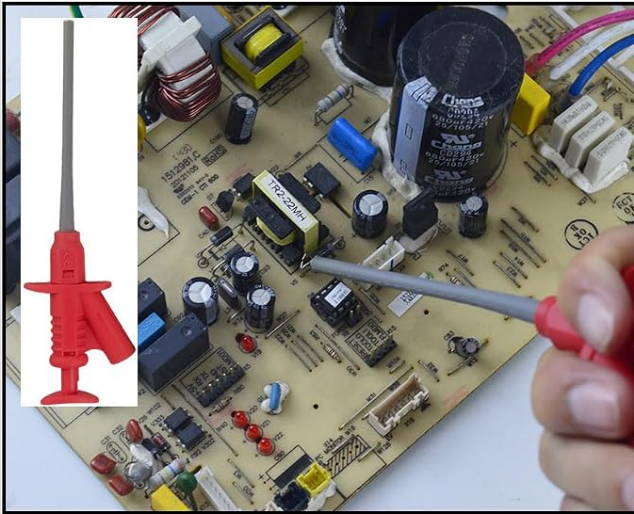


Image: Examples of test leads and probes being used in different electrical applications.

6. MAINTENANCE

Proper maintenance ensures the longevity and accuracy of your ZIBOO KIT-12.

- **Cleaning:** Wipe the test leads and probes with a clean, dry cloth after each use. Avoid using abrasive cleaners or solvents.
- **Storage:** Store the kit in the provided 3-compartment pouch to prevent tangling and damage. Keep it in a dry environment away from extreme temperatures.
- **Inspection:** Regularly inspect the insulation of the leads and the tips of the probes for any signs of wear, bending, or damage. Replace any damaged components immediately to ensure safety and performance.

7. TROUBLESHOOTING

If you encounter issues while using the ZIBOO KIT-12, consider the following:

- **No Reading or Erratic Readings:**
 - Check all connections to the multimeter and between the leads/probes for tightness.
 - Ensure the multimeter is set to the correct function and range.
 - Inspect the test leads and probes for internal breaks or damage.
- **Difficulty Connecting:**
 - Ensure the 4mm banana plugs are correctly aligned with the jacks.
 - Do not force connections; if a component doesn't fit, verify compatibility.

For further assistance, refer to the support information provided in Section 9.

8. SPECIFICATIONS

Feature	Specification
Model Number	KIT-12
Safety Rating (General)	CAT III 1000V & CAT IV 600V
Safety Rating (Piercing Needle)	CAT II 300V
Current Rating (Alligator Clips)	10A
Current Rating (Piercing Needle)	3A
Current Rating (High Voltage Flexible Test Hook Clip)	5A
Current Rating (PVC Lead Extensions)	10A
Banana Plug Compatibility	4mm shrouded banana connectors
PVC Lead Extension Length	39 inches
Alligator Clip Jaw Opening	1.38 inches
Piercing Needle Diameter	Ø2mm
Piercing Needle Length	3mm
Item Weight	11.7 ounces
Package Dimensions	8.27 x 5.71 x 1.85 inches

9. WARRANTY AND SUPPORT

9.1 Warranty

The ZIBOO KIT-12 Multimeter Test Leads Kit comes with a **1-Year Warranty** provided by ZIBOO. This warranty covers manufacturing defects and ensures the product complies with IEC/EN: 61010 standards. Please retain your proof of purchase for warranty claims.

9.2 Customer Support

For technical assistance, warranty inquiries, or any questions regarding the ZIBOO KIT-12, please contact ZIBOO customer support. Refer to the official ZIBOO website or your purchase documentation for contact details. You can also visit the [ZIBOO Store on Amazon](#) for more product information and support resources.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question