

Kaise Digital Multimeter Test Lead Set

Model: 100-62

1. INTRODUCTION

This manual provides essential information for the safe and effective use of the Kaise Digital Multimeter Test Lead Set, Model 100-62. This set is designed to enhance the functionality of compatible digital multimeters, providing precise and reliable measurements for various electrical applications.

2. SAFETY INFORMATION

Always observe the following safety precautions to prevent personal injury and damage to the equipment:

- Ensure the test leads are in good condition before each use. Do not use if insulation is damaged or wires are exposed.
- Verify the voltage and current ratings of the test leads are suitable for the circuit being measured. These leads are rated for a maximum current of 1A and a maximum voltage of 50V.
- Always connect the test leads to the multimeter first, then to the circuit under test. Disconnect from the circuit first, then from the multimeter.
- Avoid touching the metal tips of the test leads when connected to a live circuit.
- Use appropriate personal protective equipment (PPE), such as safety glasses and insulated gloves, when working with electrical circuits.
- Do not use the test leads in wet or damp conditions.

3. PRODUCT OVERVIEW

The Kaise Test Lead Set 100-62 includes specialized components designed for precise electrical measurements. It features a 792R straight test pin and a 942B alligator clip.



Figure 3.1: Complete Test Lead Set in Packaging. This image shows the full product as it is sold, including the test leads and alligator clips, neatly packaged.

Figure 3.2: Test Leads. The primary red and black test leads with standard banana plug connectors for multimeter attachment.

Figure 3.3: 792R Straight Test Pin. This ultra-fine test pin (0.4mm tip diameter) is ideal for precise measurements on small circuit board traces.

Figure 3.4: Protective Cap. A red protective cap for the test pin, ensuring safety and preventing damage when not in use.

Figure 3.5: 942B Alligator Clip. This clip provides a secure grip on terminals and wires, minimizing the risk of poor contact during measurements.

The 792R straight test pin features a 0.4mm diameter tip, making it exceptionally suitable for probing small, densely packed components or fine traces on printed circuit boards. The 942B alligator clip is designed to securely grip terminals and wires, ensuring stable connections and preventing contact issues.

4. SETUP

- Inspect Leads:** Before connecting, visually inspect all test leads and accessories for any signs of damage, such as frayed wires, cracked insulation, or bent connectors. Do not use damaged leads.
- Connect to Multimeter:** Insert the banana plugs of the red and black test leads into the corresponding input jacks of your digital multimeter. Typically, the black lead connects to the "COM" (common) jack, and the red lead connects to the "VΩmA" or "A" jack, depending on the measurement function.

- 3. Attach Accessories:** If using the 792R straight test pin or 942B alligator clip, attach them firmly to the tips of the main test leads. Ensure a secure connection to avoid intermittent readings.
- 4. Select Function:** Set your multimeter to the desired measurement function (e.g., voltage, resistance, current).

5. OPERATING INSTRUCTIONS

Follow these steps for accurate and safe operation:

- 1. Power Off Circuit:** Whenever possible, de-energize the circuit you intend to measure before connecting the test leads.
- 2. Connect to Circuit:** Carefully connect the tips of the test leads (or attached accessories) to the points on the circuit you wish to measure. For voltage measurements, connect in parallel. For current measurements, connect in series (requires breaking the circuit). For resistance, ensure the circuit is de-energized and connect across the component.
- 3. Take Reading:** If the circuit was de-energized, re-apply power. Read the measurement displayed on your multimeter.
- 4. Disconnect:** First, disconnect the test leads from the circuit under test. Then, disconnect them from the multimeter.

The 792R straight test pin is particularly useful for probing small, densely packed components or fine traces on printed circuit boards due to its narrow tip. The 942B alligator clip provides a hands-free connection, which is beneficial for long-term monitoring or when multiple measurements are required.

6. MAINTENANCE

Proper maintenance ensures the longevity and accuracy of your test lead set:

- Cleaning:** After each use, wipe the test leads and accessories with a clean, dry cloth. If necessary, use a mild, non-abrasive cleaner. Do not immerse in liquids.
- Storage:** Store the test leads in a clean, dry environment, away from direct sunlight and extreme temperatures. Avoid sharp bends or kinks in the cables.
- Inspection:** Periodically inspect the insulation for cracks, cuts, or abrasions. Check the connectors for corrosion or looseness. Replace the set if any damage is found that could compromise safety or performance.

7. TROUBLESHOOTING

If you encounter issues with your test lead set, consider the following:

- No Reading/Intermittent Reading:**
 - Check connections at both the multimeter and the circuit. Ensure they are secure.
 - Inspect the test leads for internal breaks by performing a continuity test with the multimeter itself.
 - Ensure the multimeter is set to the correct function and range.
- Inaccurate Readings:**
 - Verify the test leads are fully inserted into the multimeter jacks.
 - Clean the tips of the test leads and the multimeter jacks to remove any dirt or oxidation.
 - Ensure the circuit is de-energized for resistance measurements.

- **Physical Damage:**

If the test leads show signs of physical damage (e.g., exposed wires, cracked insulation), discontinue use immediately and replace the set to ensure safety.

8. SPECIFICATIONS

Feature	Specification
Brand	Kaise
Model Number	100-62
Pin Length	15 mm
Pin Diameter	φ0.4 mm (792R straight test pin)
Max Current	1A
Max Voltage	50V
Compatible Products	SK-2500, SK-6161, SK-6163, SK-6166, SK-4033, SK-4035, SK-6597, SK-6598, SK-6592, SK-6555, SK-6500, SK-7661, SK-7682, SK-7720, SK-7722, SK-7716, SK-7718, SK-7602, SK-7615, SK-7625, SK-7820, SK-7825, KT-2011, KT-2009, KT-2021, KT-2022
Package Size	29 x 19.5 x 9.6 cm
Item Weight	160 g
Colors	Black, Red

9. WARRANTY AND SUPPORT

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

Contact Information: Refer to the packaging or the official Kaise website for the most current contact details.