

[Manuals.plus](#) /

› [KAIWEETS](#) /

› KAIWEETS Multimeter Tool Set 4000 Counts TRMS Auto-Ranging Digital Multimeter HT113B, Non-Contact Voltage Tester, Electrical Outlet Tester/GFCI Tester, 3-Piece (Multi-Tools)

KAIWEETS HT113B

KAIWEETS Multimeter Tool Set User Manual

Brand: KAIWEETS

Model: HT113B (Multimeter)

1. INTRODUCTION

This user manual provides comprehensive instructions for the KAIWEETS Multimeter Tool Set, which includes the HT113B Digital Multimeter, a Non-Contact Voltage (NCV) Tester, and an Electrical Outlet Tester/GFCI Tester. This set is designed for precise electrical measurements and diagnostics, suitable for electricians, homeowners, and DIY enthusiasts. Please read this manual thoroughly before operation to ensure safe and effective use of the tools.



Figure 1.1: The KAIWEETS Multimeter Tool Set, featuring the HT113B Digital Multimeter, Non-Contact Voltage Tester, and Electrical Outlet Tester.

2. SAFETY INFORMATION

Always adhere to safety precautions when working with electrical equipment. Failure to do so may result in injury or damage to the tools. This product complies with safety level EN61010-2-030 EN61010-2-033 CAT III 600V standards.

- Do not attempt to measure voltages or currents exceeding the specified maximum limits.
- Ensure test leads are in good condition and properly connected before making measurements.
- Always disconnect power to the circuit before testing resistance, continuity, or diodes.
- Use appropriate personal protective equipment (PPE), such as insulated gloves and safety glasses.
- The multimeter is equipped with a 10A fuse for overload protection. Do not bypass or use incorrect fuses.
- Avoid using the tools in wet conditions or in the presence of explosive gases or dust.
- Do not touch exposed wires or circuit components while testing.

600V
CAT III



Figure 2.1: The HT113B Multimeter is rated CAT III 600V for enhanced safety during electrical measurements.

» Breakpoint Test «

Wide application on wires, cables, strings, circuits, etc.

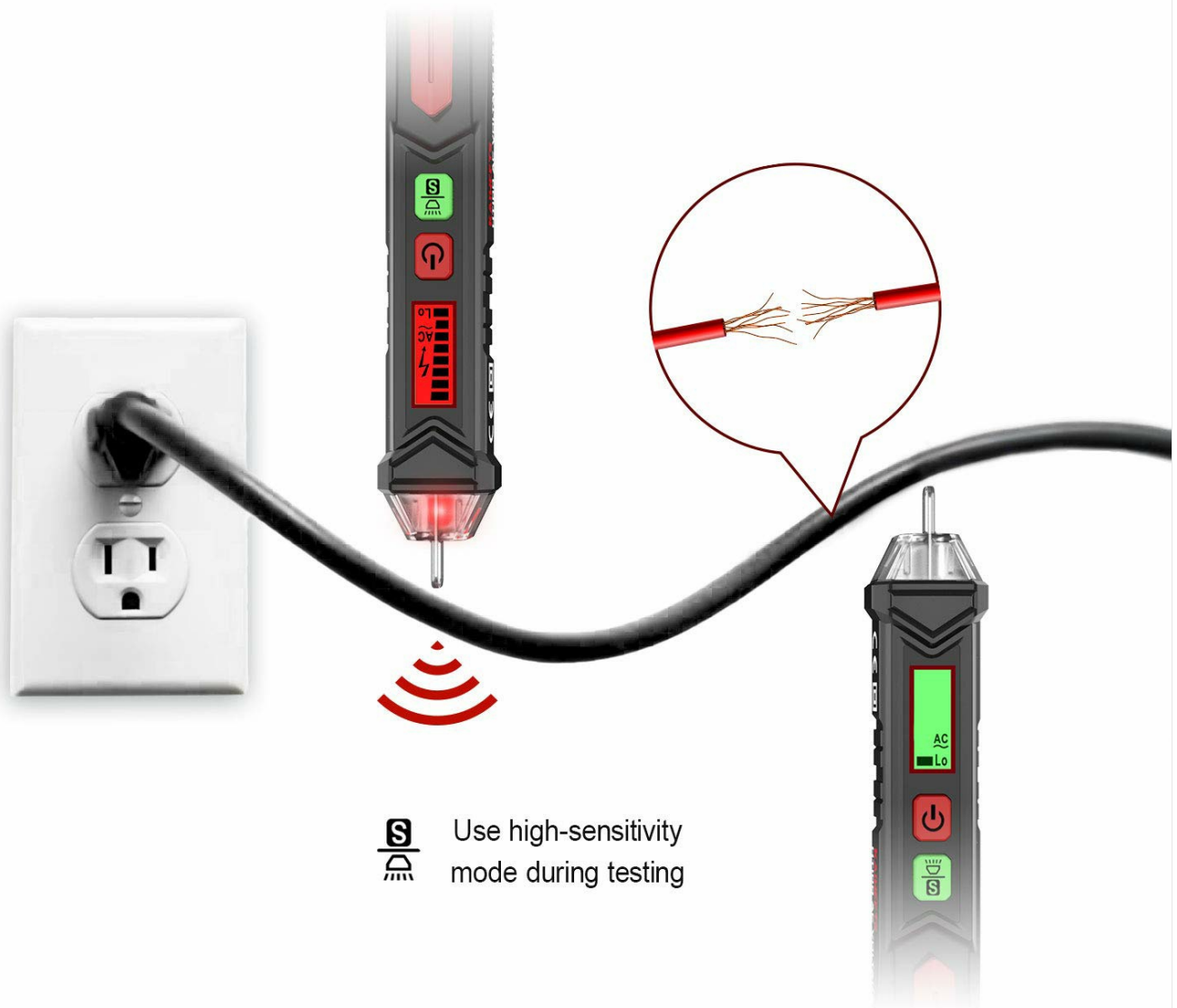


Figure 2.2: Internal view of the HT113B Multimeter, highlighting the double fuse for overload protection across all ranges.

3. PRODUCT OVERVIEW

3.1. Included Components

- KAIWEETS HT113B Digital Multimeter
- Non-Contact Voltage (NCV) Tester
- Electrical Outlet Tester / GFCI Tester
- Test Leads for Multimeter
- User Manual (this document)

3.2. Digital Multimeter (HT113B) Features

The HT113B is an auto-ranging digital multimeter with 4000 counts, providing precise measurements for various electrical parameters. It features True-RMS for accurate readings on non-linear loads.

- **Measurement Capabilities:** Measures AC/DC voltage up to 600V, AC/DC current up to 10A, and resistance up to 40M Ω .
- **Continuity Test:** For checking circuit continuity with an audible buzzer.
- **Diode Test:** For checking diode functionality.
- **Battery Test Modes:** Includes 1.5V and 9V battery test modes.
- **Safety:** CAT III 600V safety rating with internal anti-high voltage circuit design and 10A fuse for overload protection.
- **Protective Case:** Comes with a silicone protective case to prevent damage from drops.

4000 Counts True-RMS Meter

Accurate measurements, even on non-linear loads



Figure 3.1: The HT113B Multimeter's rotary dial for selecting measurement functions.

Figure 3.2: The HT113B Multimeter features True-RMS for accurate measurements.

3.3. Non-Contact Voltage (NCV) Tester Features

The NCV tester provides a safe and convenient way to detect AC voltage without direct contact, ideal for identifying live wires and breakpoints.

- **Voltage Detection:** Detects standard (48-1000V AC) and low voltage (12-1000V AC).
- **Indication:** Visual (red light) and audible (beep) alerts when voltage is detected.
- **Live/Neutral Wire Detection:** Automatically identifies live or neutral wires.
- **Breakpoint Test:** Useful for locating breaks in wires.
- **Flashlight:** Integrated LED flashlight for working in dimly lit areas.



Figure 3.3: The NCV tester in use, checking for voltage in an electrical box.



Figure 3.4: The NCV tester offers adjustable sensitivity modes for different applications.



Figure 3.5: The NCV tester includes a built-in flashlight for convenience.

3.4. Electrical Outlet Tester / GFCI Tester Features

This compact tester quickly identifies common wiring problems in standard 110-125V AC outlets and verifies GFCI operation.

- **Problem Detection:** Identifies Open Ground, Open Neutral, Open Hot, Live/Neutral Reverse, Live/Ground Reverse, and Open Live & Live Neutral Reverse.
- **GFCI Test:** Confirms the proper functioning of Ground Fault Circuit Interrupter outlets.
- **Clear Indication:** Easy-to-read LED light patterns for quick diagnosis.

True-RMS Multimeter

KAIWEETS

4000 Counts

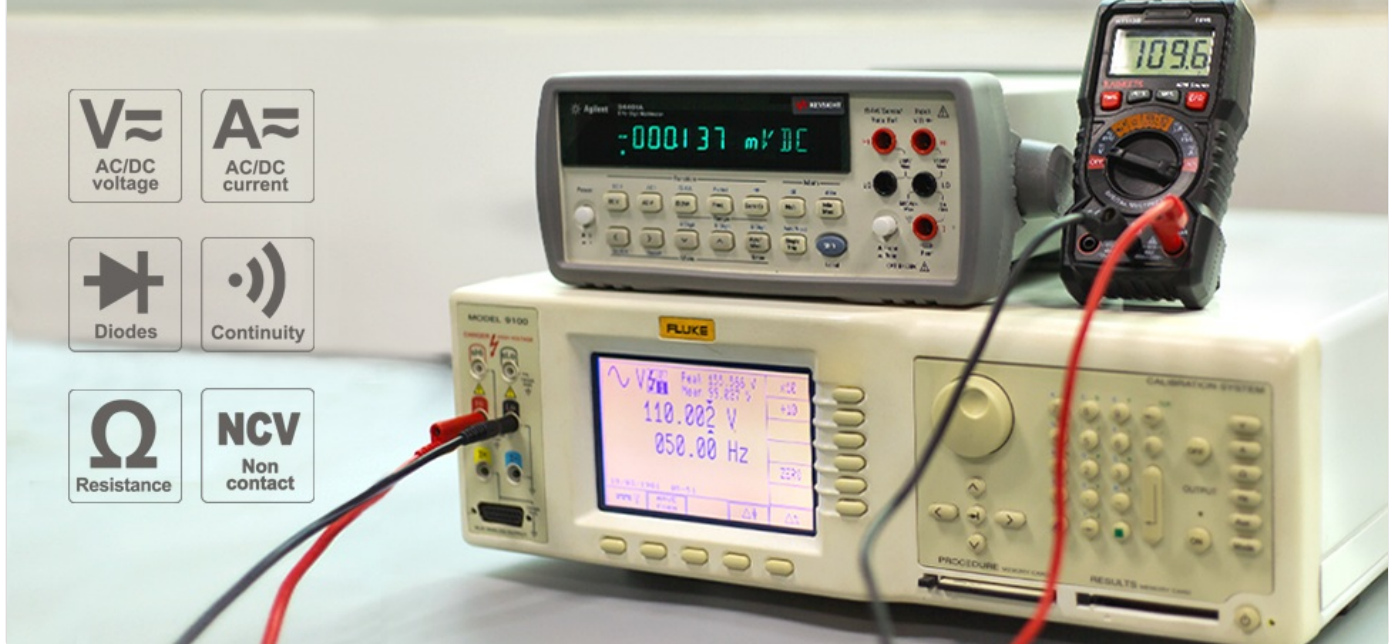


Figure 3.6: The outlet tester features a dedicated GFCI test button.



Figure 3.7: The outlet tester provides clear LED indications for various wiring faults.

4. SETUP

4.1. Battery Installation

The Digital Multimeter and NCV Tester require batteries for operation. The Outlet Tester is powered directly by the outlet.

- **Digital Multimeter (HT113B):** Open the battery compartment cover on the back of the multimeter. Insert the required batteries (typically 2x AAA, refer to the compartment for exact type and polarity). Securely close the cover.
- **Non-Contact Voltage Tester:** Twist the cap at the end of the NCV tester to open the battery compartment. Insert the required batteries (typically 2x AAA, refer to the compartment for exact type and polarity). Replace the cap, ensuring it is tightly secured.

4.2. Connecting Multimeter Test Leads

For the HT113B Digital Multimeter, connect the test leads as follows:

- Insert the **red** test lead into the **VΩmA** input jack for voltage, resistance, and low current measurements.
- Insert the **black** test lead into the **COM** (common) input jack.

- For high current measurements (up to 10A), insert the **red** test lead into the **10A** input jack.

5. OPERATING INSTRUCTIONS

5.1. Using the Digital Multimeter (HT113B)

Turn the rotary dial to the desired measurement function. Ensure test leads are connected correctly for the selected function.

- **AC/DC Voltage Measurement:**

1. Set the rotary dial to the **V~** (AC Voltage) or **V-** (DC Voltage) range.
2. Connect the test leads in parallel to the circuit or component to be measured.
3. Read the voltage value on the display.

- **AC/DC Current Measurement:**

1. **Important:** Disconnect power to the circuit before connecting the multimeter in series.
2. Set the rotary dial to the **A~** (AC Current) or **A-** (DC Current) range. For currents above 400mA, ensure the red lead is in the 10A jack.
3. Connect the multimeter in series with the circuit.
4. Apply power and read the current value.

- **Resistance Measurement:**

1. **Important:** Ensure the circuit is de-energized before measuring resistance.
2. Set the rotary dial to the **Ω** (Resistance) range.
3. Connect the test leads across the component to be measured.
4. Read the resistance value.

- **Continuity Test:**

1. Set the rotary dial to the **Continuity** (buzzer icon) range.
2. Touch the test leads to the two points of the circuit. An audible beep indicates continuity.

- **Diode Test:**

1. Set the rotary dial to the **Diode** (diode symbol) range.
2. Connect the red lead to the anode and the black lead to the cathode of the diode. Read the forward voltage drop. Reverse the leads to check for open circuit.

- **Battery Test (1.5V / 9V):**

1. Set the rotary dial to the **1.5V** or **9V** battery test range.
2. Connect the red lead to the positive terminal and the black lead to the negative terminal of the battery.
3. Read the battery voltage on the display.



Figure 5.1: Performing a continuity test with the HT113B Multimeter.



Figure 5.2: Measuring voltage in an electrical panel using the HT113B Multimeter.



Figure 5.3: Checking car battery voltage with the HT113B Multimeter.

5.2. Using the Non-Contact Voltage (NCV) Tester

The NCV tester is used to quickly detect the presence of AC voltage without making physical contact with conductors.

1. Turn on the NCV tester.
2. Place the tip of the tester near the wire, outlet, or terminal strip you wish to test.
3. If AC voltage is present, the tester will emit an audible beep and its tip will glow red.
4. To use the flashlight, long press the "S" button.
5. For breakpoint testing, move the tester along the insulated wire. The indication will stop at the point of the break.



Figure 5.4: NCV tester indicating low AC voltage.



Figure 5.5: NCV tester indicating high AC voltage.

5.3. Using the Electrical Outlet Tester / GFCI Tester

This tester is designed for quick and easy diagnosis of common wiring faults in 3-wire 110-125V AC outlets.

1. Plug the outlet tester into the receptacle you wish to test.
2. Observe the LED light pattern on the tester. Refer to the diagnostic chart on the tester's label or in Section 3.4 for interpretation.
3. **GFCI Test:** For GFCI outlets, press the "Press for GFCI Test" button. A working GFCI outlet should trip, cutting power to the outlet. Reset the GFCI outlet after testing. If the GFCI does not trip, it indicates a fault and the outlet should be serviced by a qualified electrician.

Press the **GFCI** Button

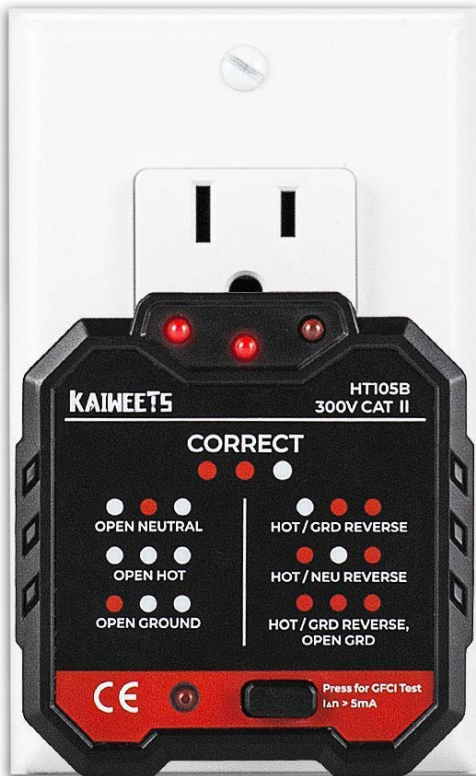
Check if the socket outlet protection function works normally



Figure 5.6: Pressing the GFCI test button on the outlet tester.

Capable Of Detecting The Most Common Wiring Faults

CORRECT



OPEN NEUTRAL



HOT/GRD REVERSE



OPEN HOT



HOT/NEU REVERSE



OPEN GROUND



HOT/GRD REVERSE,
OPEN GRD

Figure 5.7: Interpretation of LED indicators for common wiring faults.

6. MAINTENANCE

- **Cleaning:** Wipe the tools with a dry, clean cloth. Do not use abrasive cleaners or solvents.
- **Battery Replacement:** Replace batteries promptly when the low battery indicator appears on the multimeter or NCV tester. Refer to Section 4.1 for battery installation instructions.
- **Fuse Replacement (HT113B Multimeter):** If the multimeter fails to measure current, the fuse may be blown. Disconnect test leads and power off the device. Open the back cover, locate the fuse, and replace it with a fuse of the same type and rating (e.g., 10A).
- **Storage:** Store the tools in a cool, dry place away from direct sunlight and extreme temperatures. If storing for extended periods, remove batteries to prevent leakage.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Multimeter does not power on.	Dead or incorrectly installed batteries.	Check battery polarity and replace batteries.
Multimeter shows "OL" (Overload) or incorrect reading.	Measurement range too low; input exceeds maximum rating; blown fuse (for current).	Select a higher range; ensure input is within limits; check and replace fuse if measuring current.
NCV tester does not detect voltage.	Dead batteries; no voltage present; low sensitivity mode.	Replace batteries; confirm voltage presence with another tool; switch to high sensitivity mode.
Outlet tester shows incorrect wiring.	Actual wiring fault; loose connection in outlet.	Consult a qualified electrician to inspect and correct wiring.
GFCI outlet does not trip during test.	Faulty GFCI outlet; no ground connection.	The GFCI outlet is faulty and needs replacement or repair by a qualified electrician.

8. SPECIFICATIONS

8.1. KAIWEETS HT113B Digital Multimeter

- **Display:** 4000 Counts
- **Measurement Type:** True-RMS
- **DC Voltage:** Up to 600V
- **AC Voltage:** Up to 600V
- **DC Current:** Up to 10A
- **AC Current:** Up to 10A
- **Resistance:** Up to 40MΩ
- **Continuity:** Yes
- **Diode Test:** Yes
- **Battery Test:** 1.5V, 9V
- **Safety Rating:** EN61010-2-030 EN61010-2-033 CAT III 600V
- **Power Source:** Battery Powered
- **Dimensions:** Approximately 10.12 x 5.24 x 2.83 inches (Package)
- **Weight:** Approximately 1.21 Pounds (Package)

8.2. Non-Contact Voltage Tester

- **AC Voltage Detection Range:** 12-1000V AC (low sensitivity), 48-1000V AC (standard sensitivity)
- **Indication:** Visual (LED) and Audible (Buzzer)
- **Features:** Live/Neutral wire detection, Breakpoint test, Flashlight

8.3. Electrical Outlet Tester / GFCI Tester

- **Operating Voltage:** 110-125V AC
- **Wiring Faults Detected:** Correct, Open Ground, Open Neutral, Open Hot, Live/Neutral Reverse, Live/Ground Reverse, Open Live & Live Neutral Reverse
- **GFCI Test:** Yes

- **Safety Rating:** CAT II 300V

9. WARRANTY AND SUPPORT

KAIWEETS provides a 36-Month after-sale service and lifetime technical support for this product. If you encounter any issues or have questions regarding the Multimeter Tool Set, please do not hesitate to contact KAIWEETS customer support. Refer to the product packaging or the official KAIWEETS website for the most current contact information.

For further assistance, please visit the [KAIWEETS Store on Amazon](#).

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

Email

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

Details

Submit question