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> HILTEX 40508 Digital Multimeter | Diode and Transistor Tester | AC/DC Volt Test | Test Probes | Voltmeter | Multitester Meter |Volt/OHM Meter (VOM) | Measure Voltage Test(Pack of 4, 100 Counts Total)

NEIKO 40508

HILTEX 40508 Digital Multimeter User Manual

Brand: NEIKO | Model: 40508

INTRODUCTION

This manual provides essential information for the safe and effective operation of your NEIKO 40508 Digital Multimeter. This versatile tool is designed for testing various electrical components, including wires, batteries, cells, and fuses. It is suitable for both automotive and household electrical troubleshooting.

The multimeter features a transistor and diode tester, AC/DC volt test capabilities, and comes with test probes. It functions as a voltmeter, ammeter, and ohmmeter, making it a comprehensive multitester meter for measuring voltage, current, and resistance.



Image: The NEIKO 40508 Digital Multimeter, a yellow handheld device with a large digital display and a rotary dial for function selection, shown with its red and black test leads connected.

SETUP

Battery Installation

The NEIKO 40508 Digital Multimeter requires one 9V battery for operation, which is included with the device. To install or replace the battery:

1. Locate the battery compartment cover on the back of the multimeter.
2. Use a screwdriver to remove the screw securing the cover.
3. Carefully remove the cover.
4. Connect the 9V battery to the battery clip, observing correct polarity (+ and -).
5. Place the battery into the compartment.
6. Replace the battery compartment cover and secure it with the screw.

Connecting Test Leads

The multimeter comes with red and black test leads. These leads are essential for making electrical measurements.

- Insert the black test lead into the "COM" (Common) jack.
- Insert the red test lead into the "VΩmA" jack for voltage, resistance, and small current measurements. For high current measurements (up to 10A), insert the red lead into the "10A" jack.

INCLUDES

Black and red leads to test electrical systems



Image: Close-up of the red and black test leads, which are used to connect the multimeter to the circuit or component being tested.

OPERATING INSTRUCTIONS

The NEIKO 40508 Digital Multimeter features a large, easy-to-read LCD screen that displays measurements up to 1999 counts.

EASY TO READ SCREEN

Large LCD screen provides clear and large readings

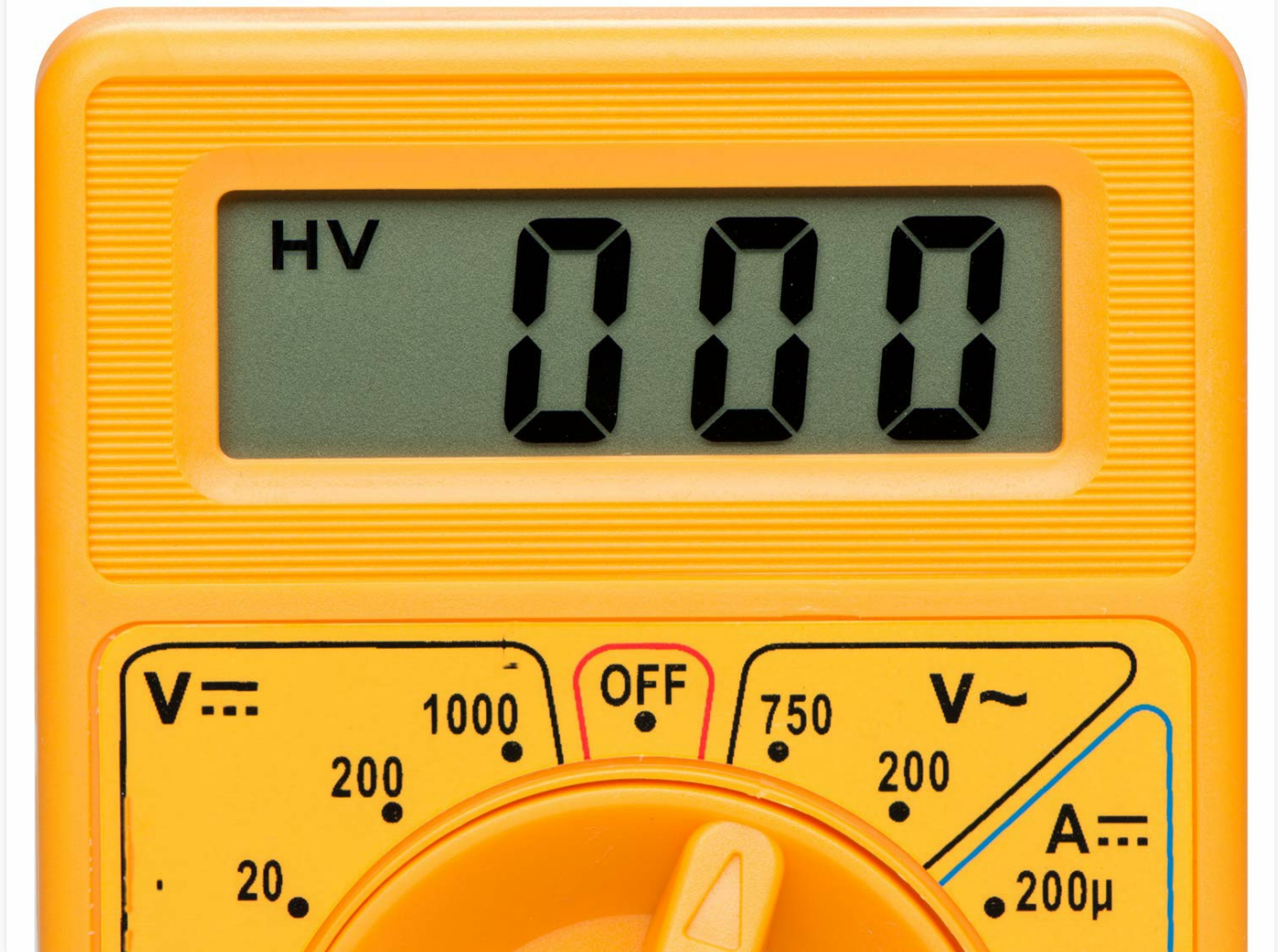


Image: A close-up view of the multimeter's digital display, highlighting its readability. The display shows "000" indicating it is ready for a measurement.

General Operation

1. **Power On/Off:** Rotate the central dial from the "OFF" position to any desired measurement function to turn the multimeter on. Return the dial to "OFF" to power off.
2. **Function Selection:** Turn the rotary switch to the desired function (e.g., V~ for AC Voltage, V--- for DC Voltage, Ω for Resistance, A--- for DC Current, hFE for Transistor Test, Diode symbol for Diode Test).
3. **Range Selection:** Within each function, select an appropriate range. Start with the highest range if the approximate value is unknown to prevent overload. Adjust downwards for more precise readings.
4. **Connecting Probes:** Connect the test probes to the circuit or component under test. Ensure proper polarity for DC measurements.
5. **Reading Display:** Read the measurement value on the LCD screen. The display will show "1" or "OL" (Overload) if the measured value exceeds the selected range.

Specific Measurement Examples

- **Measuring AC Voltage (e.g., Wall Outlet):**

Set the rotary switch to the "V~" (AC Voltage) range. Insert the red and black test leads into the appropriate slots of the wall outlet. The display will show the AC voltage reading.



Image: A person using the multimeter to measure the voltage of a standard wall outlet. The multimeter's display shows a reading of "120", indicating 120 volts AC.

- **Measuring DC Voltage (e.g., Battery):**

Set the rotary switch to the "V---" (DC Voltage) range. Connect the red test lead to the positive (+) terminal of the battery and the black test lead to the negative (-) terminal. The display will show the DC voltage reading.



Image: A person using the multimeter to measure the voltage of a 9V battery. The multimeter's display shows "0.24", indicating a low voltage reading for the battery.

- **Diode and Transistor Testing:**

The multimeter includes dedicated functions for testing diodes and transistors (hFE). Refer to the markings on the multimeter for proper lead insertion points for transistor testing (E, B, C for Emitter, Base, Collector).

Safety Feature: The multimeter has a built-in overload protector to prevent damage. An overload indicator will appear on the display if the measurement exceeds the selected range or the meter's maximum capacity.



SAFE & ACCURATE

Built in overload protector allows you to safely measure automotive and household issues

Image: The NEIKO 40508 Digital Multimeter with its test leads plugged in, illustrating its readiness for safe and accurate measurements. The image highlights the "SAFE & ACCURATE" aspect of the device.

COMPACT SIZE

Easily bring this with you from site to site



Image: A hand holding the NEIKO 40508 Digital Multimeter, demonstrating its compact size and portability for use in various locations.

MAINTENANCE

Proper maintenance ensures the longevity and accuracy of your NEIKO 40508 Digital Multimeter.

- **Cleaning:** Wipe the multimeter's casing with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Storage:** Store the multimeter in a cool, dry place away from direct sunlight and extreme temperatures. If storing for extended periods, remove the battery to prevent leakage.
- **Battery Replacement:** The multimeter features a low battery indicator. When this indicator appears on the display, replace the 9V battery as described in the "Setup" section to ensure accurate readings.
- **Test Leads:** Inspect test leads regularly for any signs of damage, such as cracks in the insulation or exposed wires. Replace damaged leads immediately.

TROUBLESHOOTING

If you encounter issues with your multimeter, refer to the following common troubleshooting steps:

- **No Display or Faint Display:**

- Check if the multimeter is turned on (rotary switch not in "OFF" position).
- Replace the 9V battery. A low battery can cause a faint or absent display.

- **"1" or "OL" (Overload) on Display:**

- The measured value exceeds the selected range. Switch to a higher range.
- The measured value exceeds the maximum input rating of the multimeter. Disconnect immediately to prevent damage.

- **Inaccurate Readings:**

- Ensure the correct function and range are selected for the measurement.
- Check that the test leads are securely plugged into the correct jacks.
- Verify the battery is not low.
- Ensure good contact between the test probes and the circuit/component.

- **No Reading (0 or erratic):**

- Check for continuity in the test leads (e.g., by touching the tips together in resistance mode; it should read near 0Ω).
- Ensure the circuit or component being tested is live or functional.

SPECIFICATIONS

Model Number:

40508

Brand:

NEIKO

Measurement Type:

Multimeter, Voltmeter (measures Voltage, Current, Resistance, Diode, Transistor hFE)

Power Source:

AC/DC (powered by 9V battery)

Batteries:

1 x 9V battery (included)

Product Dimensions (L x W x H):

10.41 x 3.05 x 13.21 cm (4.1 x 1.2 x 5.2 inches)

Item Weight:

17.33 kg (Note: This weight appears unusually high for a handheld multimeter and may be a data entry error.)

Colour:

Black

Manufacturer:

Ridgerock Tools Inc.

Country of Origin:

China

Date First Available:

November 3, 2023

Global Trade Identification Number (GTIN):

10837013405082

WARRANTY AND SUPPORT

Specific warranty details for the NEIKO 40508 Digital Multimeter are typically provided with your purchase documentation or can be found on the official NEIKO brand website. Please retain your proof of purchase for warranty claims.

For technical support, troubleshooting assistance beyond this manual, or inquiries regarding parts and service, please contact the manufacturer or the NEIKO customer support directly. Contact information can usually be found on the product packaging or the brand's official website.

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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

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