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## Walfront HT107D

# Walfront HT107D Digital LCD Socket Tester User Manual

Model: HT107D | Brand: Walfront

## 1. INTRODUCTION

The Walfront HT107D Digital LCD Socket Tester is an advanced electrical testing device designed for quick and accurate detection of correct wiring connections in electrical sockets. It features a clear LCD display for voltage and frequency readings, and multiple LED indicators to identify various wiring faults. This manual provides essential information for safe and effective use of the device.

## 2. SAFETY INFORMATION

Please read and understand all safety warnings and operating instructions before using this device. Failure to do so may result in electric shock, fire, or serious injury.

- Always ensure the device is in good working condition before use.
- Do not use the tester if it appears damaged or if the casing is open.
- Do not use the tester in wet conditions or with wet hands.
- This device is designed for testing standard electrical sockets within its specified voltage range (90-250V). Do not use it for voltages outside this range.
- The RCD test function should only be performed on circuits protected by a Residual Current Device (RCD) or Ground Fault Circuit Interrupter (GFCI). This test will trip the RCD/GFCI, cutting power to the circuit.
- Always consult a qualified electrician if you detect any wiring faults or are unsure about electrical safety.
- Keep out of reach of children.

## 3. PRODUCT OVERVIEW

The Walfront HT107D Socket Tester is a compact and portable tool for electrical safety.

### Key Features:

- Advanced socket tester for quick detection of correct wiring.
- Integrated RCD/GFCI test button for safety system verification.
- 7 LED indicator modes to clearly display wiring status.
- LCD display with backlight for frequency, phase voltage (L-N), and leakage voltage (N-E) readings.
- Compact, lightweight, and easy-to-use design.

## Components:



**Figure 1:** Front view of the Walfront HT107D Socket Tester. This image displays the device's main components including the LCD screen, the three LED indicator lights at the top, and the red RCD test button at the bottom.

- **LCD Display:** Shows voltage (L-N, N-E) and frequency.
- **LED Indicators:** Three lights at the top that illuminate in various patterns to indicate wiring status.
- **RCD Test Button:** Red button used to test Residual Current Devices.
- **EU Plug:** For insertion into standard European sockets.

## 4. SETUP

The Walfront HT107D Socket Tester requires no complex setup. It is ready for use directly out of the packaging.

1. Ensure the socket tester is clean and free from any visible damage.
2. Locate the electrical socket you wish to test.
3. Carefully insert the Walfront HT107D Socket Tester into the socket.



**Figure 2:** The Walfront HT107D Socket Tester plugged into a wall socket. The image shows the device actively displaying electrical parameters on its LCD screen, indicating it is powered on and performing a test.

## 5. OPERATING INSTRUCTIONS

Once the Walfront HT107D Socket Tester is plugged into a live socket, it will automatically begin testing and display the results.

- 1. Initial Test:** Plug the tester into the socket. The LCD screen will light up, displaying the frequency (Hz), phase voltage (L-N), and leakage voltage (N-E). The LED indicators will also illuminate according to the detected wiring status.
- 2. Reading the LCD Display:**
  - Hz:** Indicates the frequency of the AC power supply.
  - L-N:** Displays the voltage between the Live and Neutral wires.
  - N-E:** Displays the voltage between the Neutral and Earth (Ground) wires.
- 3. Interpreting LED Indicators:** Refer to Section 6, "Understanding the Indicators," for a detailed explanation of the LED patterns and their corresponding wiring conditions.



Figure 3: Close-up view of the Walfront HT107D Socket Tester's LCD screen. The display clearly shows "35mA" (likely during an RCD test), "226V" for L-N voltage, and "0V" for N-E voltage, along with the frequency.

## 6. UNDERSTANDING THE INDICATORS

The Walfront HT107D Socket Tester uses three LED indicator lights to quickly communicate the wiring status of the socket. Observe the pattern of the lights and compare it to the table below.



●●○	Correct connection / the left and middle indicator lights are on
●○○	Unconnected ground wire / the left indicator lights are on
○●○	Unconnected neutral wire / The middle indicator lights are on
○○○	Unconnected live wire / All indicator lights are off
○●●	Live wire and ground wire reverse / The middle and right indicator lights are on
●○●	Live wire and neutral wire reverse / The left and right indicator lights are on
●●●	Live wire and ground wire reverse, unconnected ground wire / All three indicator lights are on

Figure 4: LED Indicator Light Guide for the HT107D Socket Tester. This diagram illustrates the various combinations of the three indicator lights (left, middle, right) and the specific wiring fault or correct condition each pattern represents.

Indicator Pattern	Wiring Condition
●●● (Left, Middle, Right ON)	<b>Correct Connection</b>
●●○ (Left, Middle ON, Right OFF)	<b>Open Ground</b> (Unconnected ground wire)
●○● (Left, Right ON, Middle OFF)	<b>Open Neutral</b> (Unconnected neutral wire)
○●● (Middle, Right ON, Left OFF)	<b>Open Live</b> (Unconnected live wire)
●○○ (Left ON, Middle, Right OFF)	<b>Live/Ground Reverse</b> (Live wire and ground wire reversed)

Indicator Pattern	Wiring Condition
○ ● ○ (Middle ON, Left, Right OFF)	<b>Live/Neutral Reverse</b> (Live wire and neutral wire reversed)
○ ○ ● (Right ON, Left, Middle OFF)	<b>Live/Ground Reverse, Missing Ground</b> (Live wire and ground wire reversed, and ground wire is missing)

**Important:** If any fault condition is indicated, do not use the socket and consult a qualified electrician immediately.

## 7. RCD TEST FUNCTION

The RCD (Residual Current Device) test function is designed to verify the proper operation of RCDs or GFCIs in the electrical circuit. This test simulates a fault condition to ensure the RCD trips and cuts power, preventing electric shock.

1. Ensure the socket tester is plugged into a socket that is part of an RCD/GFCI protected circuit.
2. After the initial wiring test shows a "Correct Connection" (all three LEDs ON), press the red "RCD TEST" button on the tester.
3. Observe the RCD/GFCI. A properly functioning RCD/GFCI should trip, cutting power to the circuit and turning off the tester's display and lights.
4. If the RCD/GFCI does not trip, it indicates a potential fault with the RCD/GFCI itself or the wiring. Do not use the circuit and consult a qualified electrician.
5. To restore power, reset the RCD/GFCI at your consumer unit/fuse box.

**Caution:** Performing the RCD test will temporarily cut power to the tested circuit. Ensure all sensitive equipment is safely shut down or disconnected before performing this test.

## 8. MAINTENANCE

The Walfront HT107D Socket Tester requires minimal maintenance.

- **Cleaning:** Wipe the device with a soft, dry cloth. Do not use abrasive cleaners or solvents. Ensure no liquids enter the device.
- **Storage:** Store the tester in a cool, dry place, away from direct sunlight and extreme temperatures. Keep it in its original packaging or a protective case when not in use.
- **Inspection:** Periodically inspect the device for any signs of damage, such as cracks in the casing or bent pins. If damage is found, discontinue use and replace the device.

## 9. TROUBLESHOOTING

If you encounter issues with your Walfront HT107D Socket Tester, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Tester does not light up or display anything.	No power to the socket, or the socket is faulty.	Test another known working socket. Check the circuit breaker or fuse for the circuit. If other sockets work, the original socket may be dead or faulty.
LED indicators show a fault, but the socket appears to work.	Hidden wiring fault.	The tester is designed to detect faults that may not be immediately obvious. Do not ignore fault indications. Consult a qualified electrician.
RCD test button does not trip the RCD/GFCI.	Faulty RCD/GFCI, or the circuit is not protected by an RCD/GFCI.	Ensure the circuit is indeed RCD/GFCI protected. If it is, the RCD/GFCI may be faulty and requires inspection by a qualified electrician. Do not use the circuit until it is verified safe.

Problem	Possible Cause	Solution
Inconsistent readings or flickering display.	Loose connection, unstable power supply, or device malfunction.	Ensure the tester is firmly plugged into the socket. Test in another socket. If the problem persists, the device may be faulty and should be replaced.

For issues not covered here, please contact Walfront customer support or a qualified electrician.

## 10. SPECIFICATIONS

Parameter	Value
Product Name	Socket Tester
Model	HT107D
Brand	Walfront
Operating Voltage	90-250V AC
Frequency Range	45-65Hz
RCD Test Current	> 30mA
Material	Flame Retardant ABS
Color	Black
Style	Voltage Tester
Compliance	CE
Max Operating Temperature	40 Degrees Celsius
Country of Origin	China

## 11. WARRANTY AND SUPPORT

For warranty information, please refer to the documentation provided at the time of purchase or contact your retailer. Walfront products typically come with a standard manufacturer's warranty against defects in materials and workmanship.

For technical support, product inquiries, or assistance with troubleshooting, please visit the official Walfront website or contact their customer service department. Contact details can usually be found on the product packaging or the manufacturer's website.

**Note:** Always retain your proof of purchase for warranty claims.