

BSIDE AVD06 & AST01ER Kit

BSIDE Dual Mode AC Voltage Detector and Socket Tester Kit User Manual

Models: AVD06 Non-Contact AC Voltage Detector & AST01ER Socket Tester

1. INTRODUCTION

This manual provides instructions for the safe and effective use of the BSIDE Dual Mode AC Voltage Detector (AVD06) and Socket Wall Power Outlet Tester (AST01ER) kit. This kit is designed for electrical testing, offering non-contact AC voltage detection and socket wiring verification. Please read this manual thoroughly before operation and retain it for future reference.

2. SAFETY INFORMATION

WARNING: Electrical testing can be hazardous. Always exercise extreme caution when working with electrical circuits. Failure to follow safety instructions may result in electric shock, injury, or death.

- Always assume circuits are live until proven otherwise.
- Do not use the devices if they appear damaged or are not operating correctly.
- Ensure hands are dry and insulated before handling electrical components.
- The AVD06 is designed for non-contact detection; direct contact with live wires is not required and should be avoided.
- The AST01ER is designed for 220-250V AC outlets; do not use it on circuits outside this range.
- Observe all local and national safety codes.
- This device is designed to international safety standard CE CAT.II 1000V.

3. PRODUCT OVERVIEW

3.1 AVD06 Non-Contact AC Voltage Detector

The AVD06 is a pen-style device used to detect the presence of AC voltage without direct contact. It features dual mode operation (manual/auto sensitivity), LED indicators for voltage strength, and a built-in spotlight.

3.2 AST01ER Socket Tester

The AST01ER is a plug-in device that quickly checks the wiring status of standard wall power outlets. It uses a series of LED indicators to show common wiring faults and includes an RCD (Residual Current Device) test button.



Figure 1: AVD06 Voltage Detector Side View. This image displays the side profile of the AVD06, highlighting its operational buttons and adjustment wheel.



Figure 2: AST01ER Socket Tester Dimensions. This image provides the physical dimensions and weight of the AST01ER socket tester.

4. SETUP

4.1 AVD06 Battery Installation

1. Locate the battery compartment cover on the back of the AVD06.
2. Slide the cover open.
3. Insert one 9V 6F22 battery, observing the correct polarity (+/-).
4. Close the battery compartment cover securely.

The AVD06 will indicate a low battery condition when the battery voltage drops below a certain level, prompting replacement.



Figure 3: AVD06 Battery Compartment. This image shows the open battery compartment of the AVD06, ready for a 9V battery installation.

5. OPERATING INSTRUCTIONS

5.1 AVD06 Non-Contact AC Voltage Detector Operation

1. **Power On:** Press the power button to turn on the device. The device will typically start in Auto Mode.
2. **Mode Selection (Auto/Manual):** The AVD06 offers two detection modes:
 - **Auto Mode (48V-1000V):** The device automatically adjusts sensitivity. This is suitable for general voltage detection.
 - **Manual Mode (12V-1000V):** Allows for fine-tuning sensitivity using the adjustment knob. This mode is useful for detecting lower voltages or pinpointing live wires in crowded conduits.

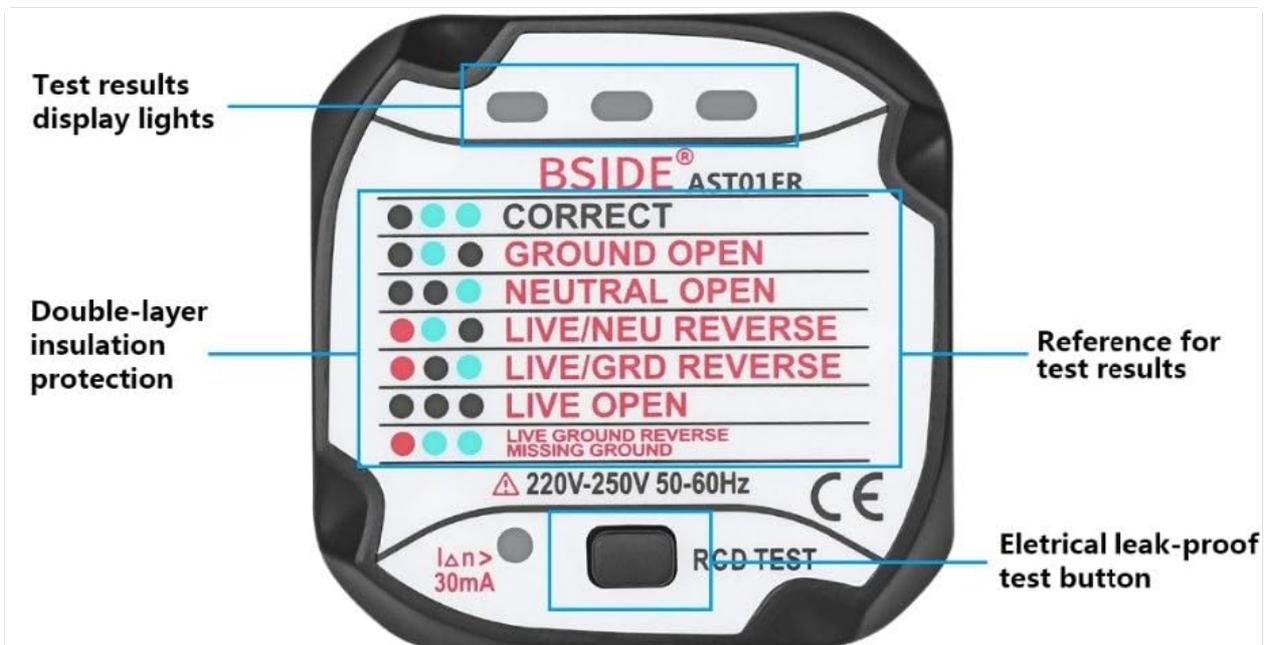
3. **Sensitivity Adjustment (Manual Mode):** In Manual Mode, rotate the sensitivity adjustment knob to increase or decrease the detection sensitivity.
4. **Voltage Detection:** Place the tip of the AVD06 near the wire, outlet, or circuit to be tested. If AC voltage is detected, the device will emit an audible beep and the LED indicators will light up.
 - **Green LED:** Low voltage detected.
 - **Yellow LED:** Moderate voltage detected.
 - **Red LED:** High voltage detected.
5. **Live/Neutral Wire Identification:** In Manual Mode, by adjusting the sensitivity, the AVD06 can help distinguish between live and neutral wires. A stronger indication (more LEDs, faster beeping) typically signifies the live wire.
6. **Spotlight Function:** Press the spotlight button to illuminate the testing area, useful in dark environments.
7. **Auto Power Off:** The device will automatically power off after 5 minutes of inactivity to conserve battery life.



Figure 4: AVD06 in Use. This image demonstrates the AVD06 detecting voltage in an electrical outlet.

5.2 AST01ER Socket Tester Operation

1. **Connect to Outlet:** Plug the AST01ER directly into a standard 220-250V AC wall power outlet.
2. **Interpret LED Indicators:** Observe the LED lights on the front of the tester. The combination of lit LEDs indicates the wiring status of the outlet. Refer to the diagram below for interpretation.
3. **RCD Test (Residual Current Device):** If the outlet is protected by an RCD, press the RCD test button on the AST01ER. A functional RCD should trip, cutting power to the outlet. If the RCD does not trip, it may be faulty and should be inspected by a qualified electrician.



● ● ●	CORRECT	● ● ●	LIVE/GRD REVERSE
● ● ●	GROUND OPEN	● ● ●	LIVE OPEN
● ● ●	NEUTRAL OPEN	● ● ●	LIVE GROUND REVERSE MISSING GROUND
● ● ●	LIVE/NEU REVERSE		

Figure 5: AST01ER LED Indicator Guide. This diagram illustrates the various LED patterns and their corresponding wiring statuses for the AST01ER socket tester.

SMALL SOCKET BIG SAFETY



Figure 6: AST01ER RCD Test in Progress. This image shows the RCD test button being pressed on the AST01ER, indicating the process of checking RCD functionality.

6. MAINTENANCE

- **Cleaning:** Wipe the devices with a dry, soft cloth. Do not use abrasive cleaners or solvents.
- **Storage:** Store the devices in a cool, dry place, away from direct sunlight and extreme temperatures. If storing for extended periods, remove the battery from the AVD06 to prevent leakage.
- **Battery Replacement:** Replace the 9V battery in the AVD06 when the low battery indicator appears.

7. TROUBLESHOOTING

- **AVD06 does not power on:** Check if the 9V battery is installed correctly and has sufficient charge. Replace the battery if necessary.
- **AVD06 does not detect voltage:** Ensure the device is powered on. If in Manual Mode, adjust the sensitivity knob. Ensure the voltage is within the specified range (12V-1000V in Manual, 48V-1000V in Auto).
- **AST01ER shows incorrect wiring:** Double-check the LED indicator guide. If the wiring is consistently incorrect, consult a qualified electrician. Do not attempt to fix wiring issues yourself unless qualified.

- **AST01ER RCD test does not trip:** This indicates a potential fault with the RCD or the wiring. Immediately consult a qualified electrician to inspect the RCD and circuit.

8. SPECIFICATIONS

8.1 AVD06 Non-Contact AC Voltage Detector

- **AC Voltage Range:** 12V ~ 1000V (Manual Mode); 48V ~ 1000V (Auto Mode)
- **Frequency:** 50Hz/60Hz
- **Power:** 1 x 9V 6F22 Battery (Not Included)
- **Size:** 174mm x 47mm x 35mm
- **Weight:** 68g
- **Safety Standard:** CE CAT.II 1000V

8.2 AST01ER Socket Tester

- **Nominal Voltage (Un):** 220-250V (AC) 50-60Hz
- **Rated Residual Operating Current:** 30mA
- **Earth Resistance:** Meets standard
- **Size:** 52.8mm x 53mm x 62mm
- **Weight:** 51g

9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided with your purchase or contact the retailer. Keep your purchase receipt as proof of purchase.