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› Gardner Bender GTK-2 Safety Kit Instruction Manual - GVD-3504 Non-Contact Voltage Tester & GFI-3501 GFCI Tester

## Gardner Bender GTK-2

# Gardner Bender GTK-2 Safety Kit Instruction Manual

Models: GVD-3504 Non-Contact Voltage Tester & GFI-3501 GFCI Outlet Tester

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## 1. INTRODUCTION

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This manual provides essential instructions for the safe and effective use of your Gardner Bender GTK-2 Safety Kit. This kit includes a GVD-3504 Non-Contact Voltage Tester and a GFI-3501 GFCI Outlet Tester, designed to help you verify electrical conditions safely. Please read all instructions thoroughly before operation and retain this manual for future reference.

## 2. PRODUCT OVERVIEW

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The Gardner Bender GTK-2 Safety Kit is a two-piece set of electrical testing tools. The GVD-3504 Non-Contact Voltage Tester allows for quick detection of AC voltage without direct contact, enhancing safety. The GFI-3501 GFCI Outlet Tester is used to check the wiring integrity of 120V AC outlets and to verify the proper functioning of Ground Fault Circuit Interrupter (GFCI) receptacles.



Figure 1: Gardner Bender GTK-2 Safety Kit components.

### 3. SETUP

#### 3.1 GVD-3504 Non-Contact Voltage Tester

- The GVD-3504 requires one (1) AAA battery for operation. The battery is not included in the kit.
- To install the battery, twist the cap at the bottom of the tester counter-clockwise to remove it.
- Insert the AAA battery, ensuring correct polarity (+/-) as indicated inside the battery compartment.
- Replace the cap by twisting it clockwise until secure.

- Before each use, press the power button to perform a self-test. The tip should light up and/or beep to confirm functionality. If it does not, replace the battery.

### 3.2 GFI-3501 GFCI Outlet Tester

- The GFI-3501 does not require batteries. It draws power directly from the outlet being tested.
- Ensure the outlet is a standard 120V AC, 3-prong receptacle.

## 4. OPERATING INSTRUCTIONS

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### 4.1 Using the GVD-3504 Non-Contact Voltage Tester

This tester detects AC voltage without requiring direct contact with live conductors, providing a safer method for initial voltage checks.

1. **Power On:** Press the power button. The tip should light up and/or beep, indicating the tester is ready.
2. **Verify Functionality:** Always test the GVD-3504 on a known live circuit (e.g., a working outlet) to confirm it is operating correctly before use.
3. **Test for Voltage:** Place the tip of the tester near the wire, outlet slot, light fixture, or circuit breaker you wish to test.
4. **Indication:** If AC voltage is present, the tester's tip will glow red and an audible alarm will sound. No light or sound indicates no detectable AC voltage.
5. **Verify De-energized:** After turning off power to a circuit, re-test with the GVD-3504 to confirm the circuit is de-energized before proceeding with work.



Figure 2: GVD-3504 Non-Contact Voltage Tester.



Figure 3: Using the GVD-3504 to test wires for voltage.

#### 4.2 Using the GFI-3501 GFCI Outlet Tester

This tester quickly identifies common wiring problems in 120V AC outlets and tests GFCI functionality.

1. **Plug In:** Insert the GFI-3501 tester into a standard 3-prong 120V AC outlet.
2. **Read Wiring Status:** Observe the illuminated LED lights on the tester. Refer to the legend printed on the tester for the corresponding wiring condition.
3. **GFCI Test (for GFCI outlets only):** If testing a GFCI receptacle, press the "Press for GFCI Test" button on the tester. A properly functioning GFCI outlet should trip (power off). If the GFCI does not trip, it is faulty and requires replacement.
4. **Reset GFCI:** After testing, reset the GFCI outlet by pressing its reset button.



Figure 4: GFI-3501 GFCI Outlet Tester with wiring legend.



Figure 5: GFI-3501 plugged into an outlet indicating correct wiring.

### 4.3 General Safety Precautions

- Always assume circuits are live until proven otherwise with a reliable tester.
- Do not use the testers if they appear damaged or are not functioning correctly.
- Always follow local electrical codes and safety regulations.
- If you are unsure about any electrical work, consult a qualified electrician.

## 5. MEDIA RESOURCES

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### 5.1 Official Product Video: Sperry and GB Outlet Testers

Video 1: An overview of Sperry and Gardner Bender outlet testers, demonstrating their use and features for diagnosing electrical wiring issues.

## 6. MAINTENANCE

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- **Cleaning:** Wipe the testers with a dry, clean cloth. Do not use abrasive cleaners, solvents, or immerse in water.
- **Battery Replacement (GVD-3504):** If the Non-Contact Voltage Tester fails its self-test (no light or sound when powered on), replace the AAA battery.
- **Storage:** Store the testers in a dry, cool environment, away from direct sunlight and extreme temperatures.

## 7. TROUBLESHOOTING

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## 7.1 GVD-3504 Non-Contact Voltage Tester Issues

- **No Indication (Light/Beep) when Powered On:** Check and replace the AAA battery. Ensure the power button is fully pressed.
- **False Positives or Over-Sensitivity:** The tester may be sensitive to strong electromagnetic fields or closely spaced wires. Try to isolate the test area or use a different testing method if precision is critical.

## 7.2 GFI-3501 GFCI Outlet Tester Issues

- **Incorrect Wiring Indication:** If the tester indicates any wiring fault (e.g., Open Ground, Reversed Polarity), do not use the outlet. Consult a qualified electrician to diagnose and correct the wiring issue.
- **GFCI Does Not Trip:** If the GFCI outlet does not trip when the test button on the GFI-3501 is pressed, the GFCI receptacle is faulty. It must be replaced immediately by a qualified individual to ensure safety.

## 8. SPECIFICATIONS

Feature	Detail
Brand	Gardner Bender
Model (Kit)	GTK-2
Model (Non-Contact Voltage Tester)	GVD-3504
Model (GFCI Outlet Tester)	GFI-3501
Minimum Operating Voltage (GVD-3504)	50 Volts (AC)
Measurement Type	Voltmeter, GFCI Tester
Power Source (GVD-3504)	1x AAA Battery (not included)
Power Source (GFI-3501)	120VAC 60Hz (from outlet)
Safety Certifications	UL, CE, IEC
Item Weight (Kit)	0.01 Ounces
Item Dimensions (Kit)	1 x 5.25 x 8.75 inches
Origin	Made in the USA

## 9. WARRANTY AND SUPPORT

**Warranty:** The product warranty is provided "as listed." Please refer to the product packaging or contact Gardner Bender directly for specific warranty details and terms.

**Manufacturer:** Actuant

**Customer Support:** For technical assistance, troubleshooting, or warranty claims, please contact Gardner Bender customer support. Contact information can typically be found on the product packaging or the official Gardner Bender website.

