Sperry Instruments HGT6520 GFCI Outlet Tester Operating Instructions

Contents

Sperry Instruments HGT6520 GFCI Outlet Tester

Before Use

READ ALL OPERATING INSTRUCTIONS BEFORE USE.

- Use extreme caution when checking electrical circuits to avoid injury due to electric shock.
- Sperry Instruments assumes basic knowledge of electricity on the part of the user and is not responsible for any injury or damages due to improper use of this tester.
- OBSERVE AND FOLLOW all standard industry safety rules and electrical codes.
- When necessary call a qualified electrician to troubleshoot and repair the defective electrical circuit.

Specifications

- **Operating Range:** 115 – 125 VAC, 60 Hz;
- **Certifications and compliance:** Conforms to UL 1436,
- **Indicators:** Visual Only
- **Operating Environment:** 32° – 90° F (0 – 32° C)
  80% RH max., 50% RH above 30° C Altitude up to 2000 meters. Indoor use. Pollution degree 2. In accordance with IED-664.
- **Cleaning:** Remove grease and grime with a clean, dry cloth.

Outlet Circuit Tester Operation

1. Plug the tester into any 120-volt standard or GFCI outlet.
2. Only a single LED should illuminate
3. The text adjacent to the lit LED will indicate the wiring condition.
4. If no LED illuminates then the hot is open
5. If the tester indicates a wiring problem then turn off all power to the outlet and repair wiring.
6. Restore power to the outlet and repeat steps 1-3

NOTICE:

1. All appliances or equipment on the circuit being tested should be unplugged to help avoid erroneous readings.
2. Not a comprehensive diagnostic instrument but a simple instrument to detect nearly all probable common improper wiring conditions.
3. Refer all indicated problems to a qualified electrician.
4. Will not detect two hot wires in a circuit.
5. Will not detect a combination of defects.
6. Will not indicate a reversal of grounded and grounding conductors.

TO TEST GFCI-PROTECTED OUTLETS

1. To test GFCI (Ground Fault Circuit Interrupter) protected circuits plug the tester into GFCI protected outlet. View the LED indicators to verify that the power is on and that the outlet is wired properly.
2. Press the GFCI test button.
3. If the circuit is wired properly the main GFCI outlet should trip and power to the circuit will be cut off (this is indicated by the LED lights on the tester going off).

GROUND RESISTANCE TEST

- The unit automatically tests circuits for proper ground wiring.
- If the resistance of the ground wiring is greater than ~10 Ohms then the red indicator adjacent to “Bad Ground” will illuminate indicating bad ground.

NOTICE:

1. Consult the GFCI manufacturer’s installation instructions to determine that the GFCI is installed in accordance with the manufacturer’s specifications.
2. Check for correct wiring of receptacles and all remotely connected receptacles on the branch circuit.
3. Operate the test button on the GFCI installed in the circuit. The GFCI must trip. If it does not — do not use the circuit— consult an electrician. If the GFCI does trip, reset the GFCI. Then, insert the GFCI tester into the receptacle to be tested.
4. Activate the test button on the GFCI tester for a minimum of 6 seconds when testing the GFCI condition. Visible indication on the GFCI tester must cease when tripped.
5. If the tester fails to trip the GFCI, it suggests: a.) a wiring problem with an operable GFCI, or b.) proper wiring with a faulty GFCI. Consult with an electrician to check the condition of the wiring and GFCI.

Caution

- GFCIs are sometimes installed in 2-wire systems (no ground wire available).
- This may or may not meet the local code.
- This tester will not trip GFCI outlets installed without a ground wire.
- On two wire systems use the test and reset buttons on the GFCI outlet to demonstrate proper operation.
- To detect which downstream outlets are protected by the GFCI place the tester in these outlets and use the test and reset buttons.
- Watch for the LEDs on the tester to turn off, this will indicate proper operation.

Battery Instructions: No batteries are needed for this unit

CAUTION: REFER TO THIS MANUAL BEFORE USING THIS TESTER DO NOT ATTEMPT TO REPAIR THIS TESTER. IT CONTAINS NO SERVICEABLE PARTS

- **Double Insulation:** The tester is protected throughout by double insulation or reinforced insulation.
- **Warning –** This product does not sense DC voltage
- **Warning –** To ensure the unit is operating, always test on a known live circuit before use.

FEATURES

- **GFCI Testing Capability:** Made to make sure that Ground Fault Circuit Interrupters (GFCI) work properly.
- **Indicator Lights:** It has bright LED lights that make it easy to see what the state of the outlet being tested is.
- **Polarity Testing:** This makes sure that the outlet has the right polarity so that electrical links are safe.
- **Ground Testing:** This makes sure that the link to the ground is working right.
- **Voltage Range:** It can check plugs that have voltages between 110V and 125V.
- **Compact Design:** It’s easy to carry and use in different places because it’s small and light.
- **Friendly to users:** easy to use with a clear layout for quick testing.
- **Durable Construction:** Made with high-quality materials that will last longer and handle daily use.
- **Wide Compatibility:** It can be used in electricity outlets in homes, businesses, and factories.
- **Overload safety:** The tester has built-in overload safety to keep it from breaking while it’s being used.
- **Reverse Polarity Indication:** This makes it very clear if the outlet is wired wrong.
- The open ground indicator lets the user know if the ground link is broken or open.
- **Open Neutral Indication:** This shows that there are problems with the connection of the neutral wire.
- **Certification for safety:** Meets all safety rules and standards for electrical testing tools.
- **Ergonomic design:** a comfortable grip makes it easy to use during tests.
- **Testing Speed:** Gives quick test data for quick troubleshooting.
- **Battery-operated**: Doesn’t need an outside power source, so it’s easy to use in the field.
- **Cost-effective:** This is a cheap way for homes and electricians to make sure that outlets are safe.

Warranty

Limited Lifetime Warranty limited solely to repair or replacement; no warranty of merchantability or fitness for a particular purpose. The product is warranted to be free of defects in materials and workmanship for the normal life of the product. In no event shall Sperry Instruments be liable for incidental or consequential damage.

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FREQUENTLY ASKED QUESTIONS

What is the primary function of the Sperry Instruments HGT6520 GFCI Outlet Tester?

The primary function of the Sperry Instruments HGT6520 GFCI Outlet Tester is to test GFCI outlets for proper wiring and functionality.

How does the Sperry Instruments HGT6520 indicate wiring errors?

The Sperry Instruments HGT6520 indicates wiring errors through a single LED light that provides immediate feedback without the need for a chart.

What types of wiring conditions can the Sperry Instruments HGT6520 detect?

The Sperry Instruments HGT6520 can detect conditions such as open hot, open neutral, hot/ground reverse, and more.

What is the operational voltage range of the Sperry Instruments HGT6520?

The operational voltage range of the Sperry Instruments HGT6520 is 95-140V AC at 60Hz.

Is the Sperry Instruments HGT6520 durable for job site use?

Sperry Instruments HGT6520 features hi-impact ABS housing that can withstand drops from up to 10 feet and has a crush rating of 250 pounds.

What is the weight of the Sperry Instruments HGT6520 GFCI Outlet Tester?

The weight of the Sperry Instruments HGT6520 is approximately 0.28 pounds.

Does the Sperry Instruments HGT6520 have an audible indicator?

Sperry Instruments HGT6520 includes an audible beeping indicator that confirms test completion.

What type of power source does the Sperry Instruments HGT6520 use?

The Sperry Instruments HGT6520 is battery powered, making it portable for various testing locations.

What warranty does the Sperry Instruments HGT6520 come with?

The Sperry Instruments HGT6520 comes with a limited lifetime warranty.

How many common wiring conditions can the Sperry Instruments HGT6520 test for?

The Sperry Instruments HGT6520 tests for seven common wiring conditions.

Is there a specific design feature that enhances visibility on the Sperry Instruments HGT6520?

It features a bright 360° viewable LED indicator light for enhanced visibility during testing.

What material is used in the construction of the Sperry Instruments HGT6520?

The Sperry Instruments HGT6520 is made from high-impact ABS plastic for durability.

What is a unique feature of the testing mechanism in the Sperry Instruments HGT6520?

A unique feature is its advanced ground testing circuitry that detects low resistance values required for

accurate readings.

What dimensions does the Sperry Instruments HGT6520 measure?

The dimensions of the Sperry Instruments HGT6520 are approximately 6.75 inches long by 3.75 inches wide by 2 inches high.

Is there any certification associated with the safety standards of the Sperry Instruments HGT6520?

It is recognized by OSHA as a Nationally Recognized Testing Laboratory (NRTL).

VIDEO – PRODUCT OVERVIEW

DOWNLOAD THE PDF LINK:

References

- User Manual