



Southwire™

TOOLS & EQUIPMENT

Operating Instructions

41210S CIRCUIT BREAKER FINDER WITH GFCI

Instrucciones de uso

Detector de Interruptores con GFCI 41210S



Southwire™

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southwiretools.com



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Línea de Ayuda Técnica Gratuita

Contents Made in China

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12/14 Rev. 1
41210S manual

Introduction

The Southwire 41210S Circuit Breaker Finder identifies the specific breaker supplying power to an AC outlet or lighting fixture. The advanced design provides automatic calibration for simple operation. The GFCI test feature provides a quick method of checking GFCI outlets. Proper use and care of this instrument will provide many years of reliable service.

⚠️ WARNINGS

- Use caution when working on live circuits. Severe shock hazards exist.
- Do not use in cardiac care areas.
- Only qualified electricians should perform corrective work.
- If used on a circuit controlled by a light dimmer, turn the dimmer to the highest on position.
- Double check that the correct breaker was turned off before working on the circuit by using a volt tester or meter.

General Specifications

Operating Voltage	120V AC
Operating Frequency	50 to 60Hz
Battery	9 volt NEDA 1604 or IEC 6LR61 or equivalent
Operating Temperature	41° to 104°F (5° to 40°C)
Operating Humidity	80% max.
Storage Temperature	14° to 140°F (-10° to 60°C)
Storage Humidity	80% max.
Altitude	7000ft (2000m) max.
Pollution Degree	II
Safety	Complies with EN61010-1, for use in Overvoltage CAT III environments

Maintenance

This Tester is designed to provide years of dependable service, if the following care instructions are performed:

1. KEEP THE TESTER DRY. If it gets wet, wipe it off.
2. USE AND STORE THE TESTER IN NORMAL TEMPERATURES. Temperature extremes can shorten the life of the electronic parts and distort or melt plastic parts.
3. HANDLE THE TESTER GENTLY AND CAREFULLY. Dropping it can damage the electronic parts or the case.
4. KEEP THE TESTER CLEAN. Wipe the case occasionally with a damp cloth. DO NOT use chemicals, cleaning solvents, or detergents.
5. USE ONLY FRESH BATTERIES OF THE RECOMMENDED SIZE AND TYPE. Remove old or weak batteries so they do not leak and damage the unit.
6. IF THE TESTER IS TO BE STORED FOR A LONG PERIOD OF TIME, the batteries should be removed to prevent damage to the unit.

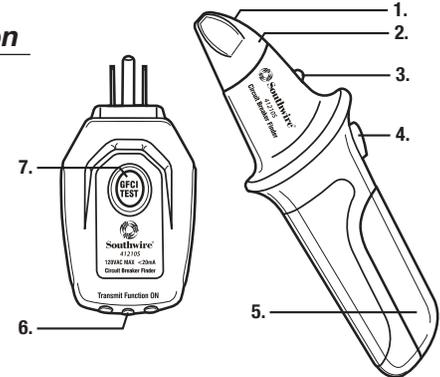
Tester Description

Receiver

1. Scanning head
2. Red LED indicator
3. Green LED indicator
4. On/Off/Reset button
5. Battery cover

Transmitter

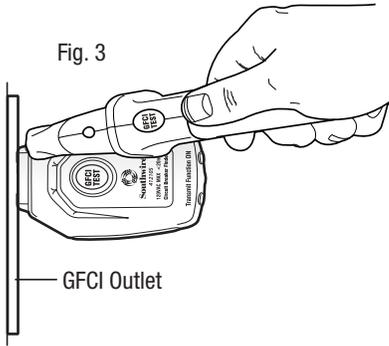
6. LED indicator
7. GFCI test button



Operation

Testing the Transmitter and Receiver

1. Plug the transmitter into a powered AC outlet. The transmitter's LED will glow indicating the transmitter is on.
2. Turn the receiver on by momentarily pushing the On/Off/Reset button. The red LED will glow and the beeper will pulsate indicating the receiver is on. If not functioning, replace the battery. (Refer to Battery Replacement in manual.)
3. Touch the scanning head to the face of the transmitter as shown in Figure 3. The Green LED should turn on and the beeper should change to a continuous tone indicating the transmitter and receiver are operating normally.



Locating a Circuit Breaker

⚠ WARNING: Shock Hazard. Use extreme caution when working on live circuits. Do not use transmitter on circuits that exceed 120V AC.

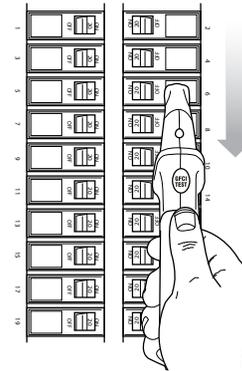
1. With the transmitter plugged into the powered AC outlet, go to the circuit breaker panel. Open the door on the panel. Momentarily press the On/Off/Reset button. See Figure 4. Touch the scanning head directly on the circuit breaker. Move the receiver slowly down both sides of the panel passing over each circuit breaker twice.
2. When the receiver detects the circuit breaker that is powering the outlet, the red LED will turn off and the green LED will turn on. The beeper will change to a continuous tone.

Operation

Locating a Circuit Breaker cont.

3. When the correct breaker is turned off, the green LED will turn off and the red LED will turn on. The beeper will change from a continuous tone to a pulsating beep.
4. Confirm that the power at the outlet is shut off. The LED on the transmitter should be off. Double check the circuit before working on it by using a voltage tester or meter.

Note: The receiver may detect more than one circuit breaker on the first pass. On the second pass, the receiver will ignore false detections and identify a single breaker. Do not press the On/Off/Reset button in between the first and second pass.



Note:

- The On/Off/Reset button should be pressed momentarily every time a new test is performed in order to reset the calibration.
- To conserve battery power, the receiver shuts off automatically after three minutes.
- To turn the receiver off manually, press and hold the On/Off/Reset button for at least one second.
- When the receiver battery gets low, the green light and beeper will turn on and off repeatedly. Replace the battery immediately.

Operation

GFCI Test Instructions

1. Check the instructions on the specific GFCI device you are testing before proceeding. Make sure the GFCI receptacle has been properly installed.
2. Press the test button on the GFCI receptacle. The GFCI receptacle should trip. If not, do not use the receptacle and consult a qualified electrician. If it does trip, press the reset button on the receptacle.
3. Insert the transmitter into the receptacle being tested.
4. Press the GFCI button on the tester. The GFCI should trip and the indicator lights on the tester should turn off.
5. If the GFCI does not trip, either the receptacle is miswired or the GFCI is defective. Do not use the receptacle and consult a qualified electrician.

⚠ CAUTION: When testing the GFCI installed in 2 wire (non-grounded) outlets, the tester may indicate a faulty GFCI. If this occurs, press the test button on the GFCI receptacle. The GFCI should trip. Restore the power by pressing the reset button on the GFCI receptacle.

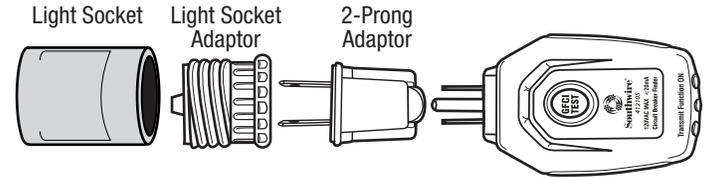
Using Light Socket Adapter (Optional 60030A Adapter Kit)

⚠ WARNING: Shock Hazard. Use extreme caution when working on live circuits. Do not use light socket on circuits that exceed 120V AC.

1. If the incandescent light is controlled by a wall switch, turn the switch off before proceeding.
2. Remove the light bulb.
3. Install screw in socket adapter
4. Plug the transmitter into the adapter using the included 3 prong to 2 prong adapter.
5. Turn on the wall switch and follow the procedures described in Locating a Circuit Breaker
6. Confirm that the correct circuit breaker has been turned off. The LED on the transmitter should be off. Double check the circuit before working on it by using a voltage tester or meter.

Operation

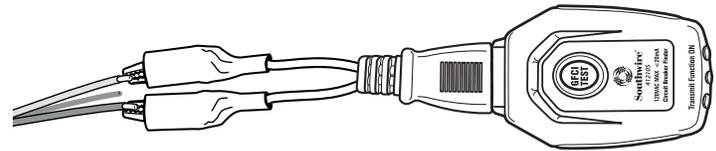
Using Light Socket Adapter (Optional 60030A Adapter Kit) cont.



Using Alligator Clips Adapter

⚠ WARNING: Shock Hazard. Use extreme caution when working on live circuits. Use approved personal protective equipment. Consult a qualified electrician before using alligator clips. Do not use alligator clips on circuits that exceed 120V AC.

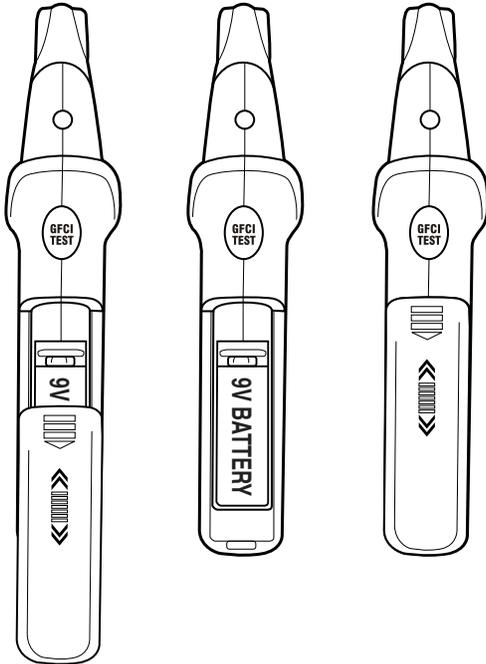
1. Turn off power before connecting or disconnecting alligator clips.
2. Carefully connect the alligator clips to the correct wiring.
3. Plug the transmitter into the alligator clip adapter.
4. Turn on power and follow the procedures described in Locating a Circuit Breaker.
5. Confirm that the correct circuit breaker has been turned off. The LED on the transmitter should be off. Double check the circuit before working on it by using a voltage tester or meter.



Operation

Battery Replacement (Receiver only)

1. Slide open battery cover.
2. Remove and safely discard old battery.
3. Install new 9 volt battery
4. Reinstall battery cover.



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Southwire Company, LLC
Attention: Tool Warranty Return
840 Old Bremen Road
Carrollton, GA 30117