LEVITON

Lever Edge^{*} smartlockpro

Installing and Testing a GFCI Receptacle

Please read this leaflet completely before getting started.

Avoid miswiring the GFCI. See video link for help on wiring.



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3. Should you install it?

Installing a GFCI receptacle can be more complicated than installing a conventional receptacle.

Make sure that you:

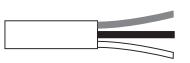
- · Understand basic wiring principles and techniques
- Can interpret wiring diagrams
- Have circuit wiring experience
- Are prepared to take a few minutes to test your work, making sure that you have wired the GFCI receptacle correctly

- To prevent severe shock or electrocution always turn the power OFF at the service panel before working with wiring.
- Use this GFCI receptacle with copper wire. Do not use it with copper-clad or aluminum wire.
- Do not install this GFCI receptacle on a circuit that powers life support equipment because if the GFCI trips it will shut down the equipment.
- For installation in damp or wet locations, the GFCI receptacle must be Listed and marked as Weather Resistant (WR).
- For installation in wet locations, protect the GFCI receptacle with a cover plate or outlet box hood suitable for wet locations that will keep both the receptacle and plug face dry.
- Must be installed in accordance with national and local electrical codes.

4. LINE vs. LOAD

A cable consists of 2 or 3 wires.

Cable Wires



LINE cable:

Delivers power from the service panel (breaker panel or fuse box) to the GFCI. If there is only one cable entering the electrical box, it is the LINE cable. This cable should be connected to the GFCI's LINE levers only. These are the black and white levers.

LOAD cable:

Delivers power from the GFCI to another receptacle in the circuit. This cable should be connected to the GFCI's LOAD levers only. These are the blue and white levers.

1. What is a GFCI?

A GFCI receptacle is different from conventional receptacles. In the event of a ground fault, a GFCI will trip and quickly stop the flow of electricity to prevent serious injury.

Definition of a ground fault:

Instead of following its normal safe path, electricity passes through a person's body to reach the ground. For example, a defective appliance can cause a ground fault.

A GFCI receptacle does NOT protect against circuit overloads, short circuits, or shocks. For example, you can still be shocked if you touch bare wires while standing on a non-conducting surface, such as a wood floor.

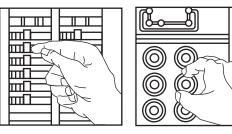
NOTE:

GFCIs contain a lockout feature that will prevent RESET if:

- There is no power being supplied to the GFCI.
- The GFCI is miswired due to reversal of the LINE and LOAD connections.
- The GFCI cannot pass its internal test. indicating that it may not be able to provide protection in the event of a ground fault.

5. Turn the power OFF

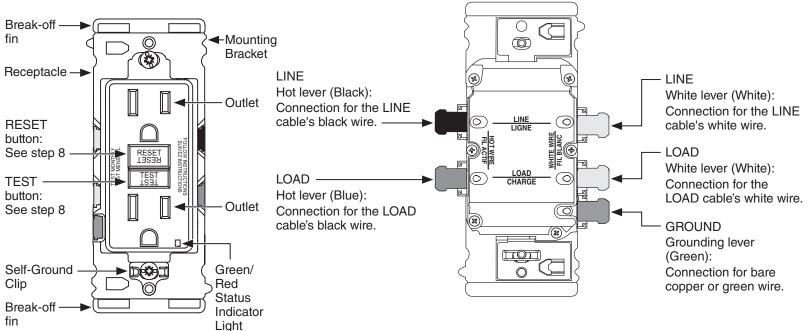
Plug an electrical device, such as a lamp or radio, into the receptacle on which you are working. Turn the lamp or radio ON. Then, go to the service panel. Find the breaker or fuse that protects that receptacle. Place the breaker in the OFF position or completely remove the fuse. The lamp or radio must turn OFF.



Next, plug in and turn ON the lamp or radio at the receptacle's other outlet to make sure the power is OFF at both outlets. If the power is not OFF, stop work and call an electrician to complete the installation.

2. The GFCI's features

FRONT VIEW



6. Identify cables/wires

Important:

DO NOT install the GFCI receptacle in an electrical box containing (a) more than four (4) wires (not including the grounding wires) or (b) cables with more than two (2) wires (not including the grounding wire). Contact a gualified electrician if either (a) or (b) are true.

If you are replacing an old receptacle, pull it out of the electrical box without disconnecting the wires.

- If you see one cable (2-3 wires), it is the LINE cable. The receptacle is probably in position C (see diagram to the right). Remove the receptacle and go to step 7A.
- If you see two cables (4-6 wires), the receptacle is probably in position A or B (see diagram to the right). Follow steps a-e of the procedure to the right.

Procedure: box with two (2) cables (4-6 wires):

- cable.
- power ON at the service panel.
- (c) Determine if power is flowing to the LINE wires.
- remove the receptacle.
- (e) Go to step 7B.

BACK VIEW

(a) Detach one cable's white wire and hot wires from the receptacle and cap each one separately with a wire connector. Make sure that they are from the same

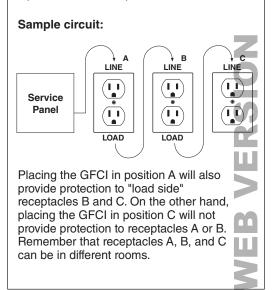
(b) Re-install the receptacle in the electrical box, attach the faceplate, then turn the

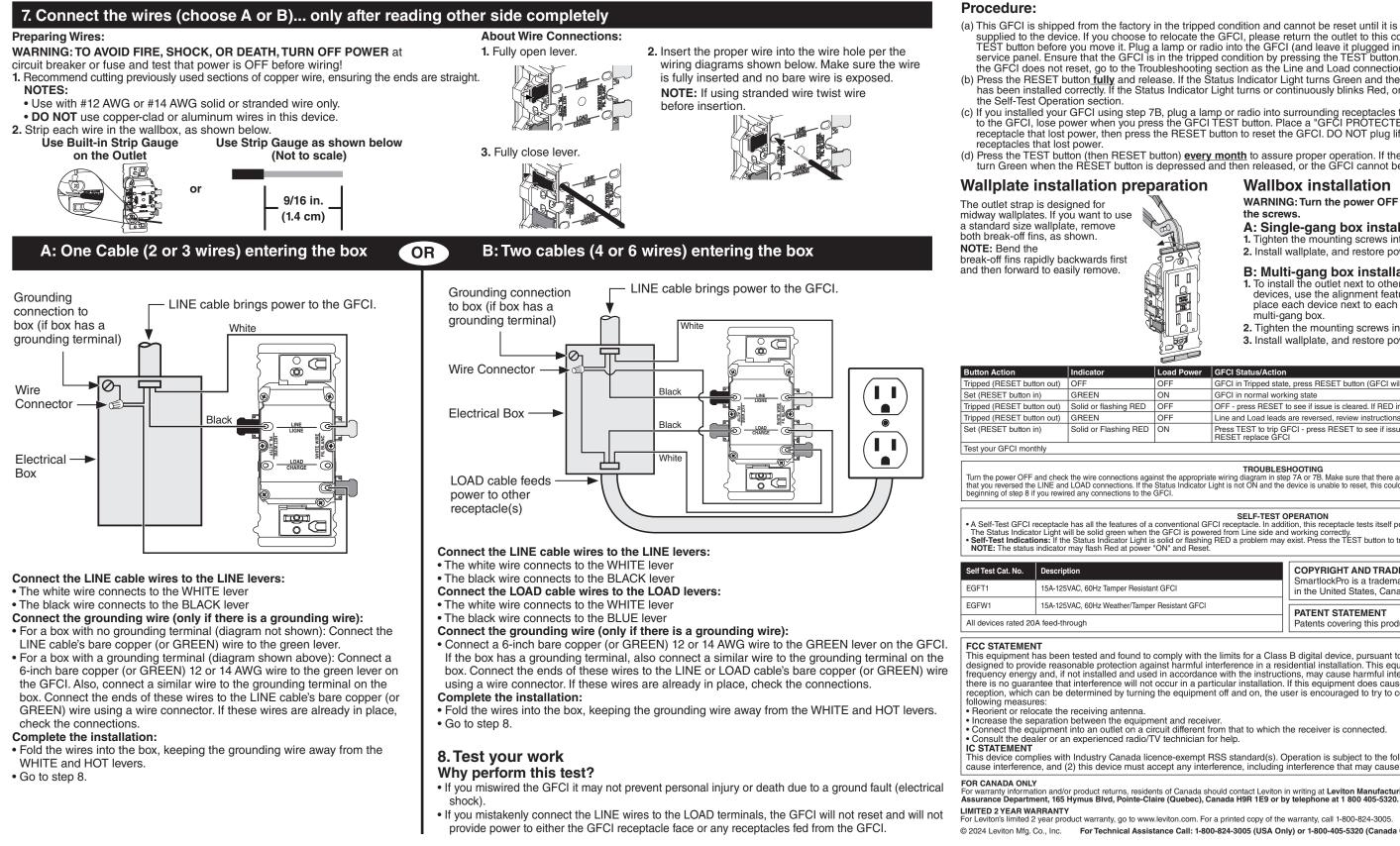
> receptacle. If so, the capped wires are the LOAD wires. If not, the capped wires are the

(d) Turn the power OFF at the service panel, label the LINE and LOAD wires, then

Placement in circuit:

The GFCI's place in the circuit determines if it protects other receptacles in the circuit.





(a) This GFCI is shipped from the factory in the tripped condition and cannot be reset until it is wired correctly and power is supplied to the device. If you choose to relocate the GFCI, please return the outlet to this configuration by pressing the TEST button before you move it. Plug a lamp or radio into the GFCI (and leave it plugged in). Turn the power ON at the service panel. Ensure that the GFCI is in the tripped condition by pressing the TEST button. If the lamp or radio is OFF, and the GFCI does not reset, go to the Troubleshooting section as the Line and Load connections are reversed.

(b) Press the RESET button fully and release. If the Status Indicator Light turns Green and the lamp or radio is ON, the GFCI has been installed correctly. If the Status Indicator Light turns or continuously blinks Red, or the GFCI cannot be reset, go to

(c) If you installed your GFCI using step 7B, plug a lamp or radio into surrounding receptacles to see which one(s), in addition to the GFCI, lose power when you press the GFCI TEST button. Place a "GFCI PROTECTED OUTLET" sticker on every receptacle that lost power, then press the RESET button to reset the GFCI. DO NOT plug life saving devices into any of the

(d) Press the TEST button (then RESET button) every month to assure proper operation. If the Status Indicator Light does not turn Green when the RESET button is depressed and then released, or the GFCI cannot be reset, it must be replaced.

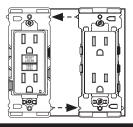
Wallbox installation

WARNING: Turn the power OFF at the circuit breaker before you tighten the screws.

A: Single-gang box installation.

- 1. Tighten the mounting screws into wallbox.
- 2. Install wallplate, and restore power.

- B: Multi-gang box installation.
- 1. To install the outlet next to other Lever Edge™ devices, use the alignment feature to easily place each device next to each other in the multi-gang box.
- 2. Tighten the mounting screws into wallbox.
- 3. Install wallplate, and restore power.



ower	GFCI Status/Action
	GFCI in Tripped state, press RESET button (GFCI will not reset if there is no power on the circuit)
	GFCI in normal working state
	OFF - press RESET to see if issue is cleared. If RED indication continues or GFCI will not RESET replace GFCI
	Line and Load leads are reversed, review instructions for correct wiring
	Press TEST to trip GFCI - press RESET to see if issue is cleared. If RED indication continues or GFCI will not RESET replace GFCI

TROUBLESHOOTING

Turn the power OFF and check the wire connections against the appropriate wiring diagram in step 7A or 7B. Make sure that there are no loose wires or loose connections. Also, it is possible that you reversed the LINE and LOAD connections. If the Status Indicator Light is not ON and the device is unable to reset, this could be a result of no power available. Start the test from the beginning of step 8 if you revired any connections to the GFO.

SELF-TEST OPERATION

A Self-Test GFCI receptacle has all the features of a conventional GFCI receptacle. In addition, this receptacle tests itself periodically to confirm the GFCI electronics are functional Self-Test Indications: If the Status Indicator Light is solid or flashing RED a problem may exist. Press the TEST button to trip the GFCI. If unable to Reset, replace the GFCI.

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GFCI	PATENT STATEMENT Patents covering this product, if any, can be found on Leviton.com/patents

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the

IC STATEMENT This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

For warranty information and/or product returns, residents of Canada should contact Leviton in writing at Leviton Manufacturing of Canada ULC to the attention of the Quality

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