LEVITON

smartlockpro™

Installing and Testing a GFCI Receptacle

Please read this leaflet completely before getting started.

PK-A3089-10-00-2G

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 vour 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 with copper or copper-clad wire. Do not use it with 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 wet locations. protect the GFCI receptacle with a weatherproof cover that will keep both the receptacle and any plugs dry.
- Must be installed in accordance with national and local electrical codes.

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 guickly 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.

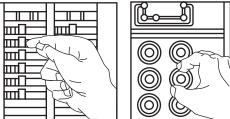
NOTE:

GECI's 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 leads. 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

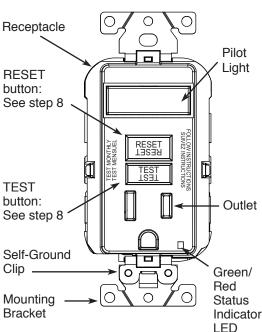
Plug an electrical device, such as a lamp or radio, into the receptacle on which you are working. Turn the lamp or radio ON. Then, go to the service panel. Find the breaker or fuse that protects that receptacle. Place the breaker in the OFF position or completely remove the fuse. The lamp or radio must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

DO NOT install the GFCI receptacle in an

wires (not including the grounding wires) or

(b) cables with more than two (2) wires (not

qualified 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

If you see one cable (2-3 wires), it is the

position C (see diagram to the right).

If you see two cables (4-6 wires), the

of the procedure to the right.

receptacle is probably in position A or B

(see diagram to the right). Follow steps a-e

LINE cable. The receptacle is probably in

Remove the receptacle and go to step 7A.

including the grounding wire). Contact a

electrical box containing (a) more than four (4)

Important:

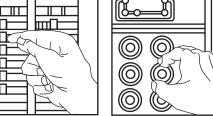
wires.

LINE Hot terminal (Brass or Black): Connection for the LINE cable's

- A yellow sticker covers the LOAD terminals. DO NOT remove the sticker at this time (Remove only if load terminals will be used and then break off tab with pliers)

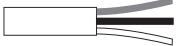
Procedure: box with two (2) cables (4-6 wires):

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



A cable consists of 2 or 3 wires. Cable Wires

4. LINE vs. LOAD



LINE cable:

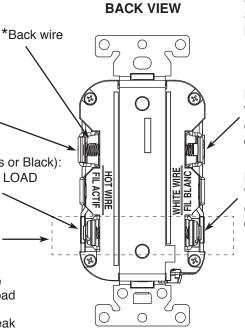
Delivers power from the service panel (breaker panel or fuse box) to the GFCI. If there is only one cable entering the electrical box, it is the LINE cable. This cable should be connected to the GFCI's LINE terminals only.

LOAD cable:

Delivers power from the GFCI to another receptacle in the circuit. This cable should be connected to the GFCI's LOAD terminals only. The LOAD terminals are under the yellow sticker. DO NOT remove the sticker at this time.

Pilot Light black wire LOAD

Hot terminal (Brass or Black): Connection for the LOAD cable's black wire



Screw (terminal) colors: Silver = WHITE terminals Brass or Black = HOT terminals

IINE

White terminal (Silver): Connection for the LINE cable's white wire

LOAD

White terminal (Silver): Connection for the LOAD cable's white wire

* Back wire LINE terminals have a captive clamp feature to ease insertion of wires for first time wiring only.

(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 faceplate, then turn the power

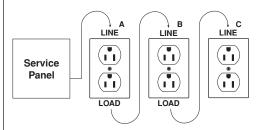
receptacle. If so, the capped wires are the LOAD wires. If not, the capped wires are

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

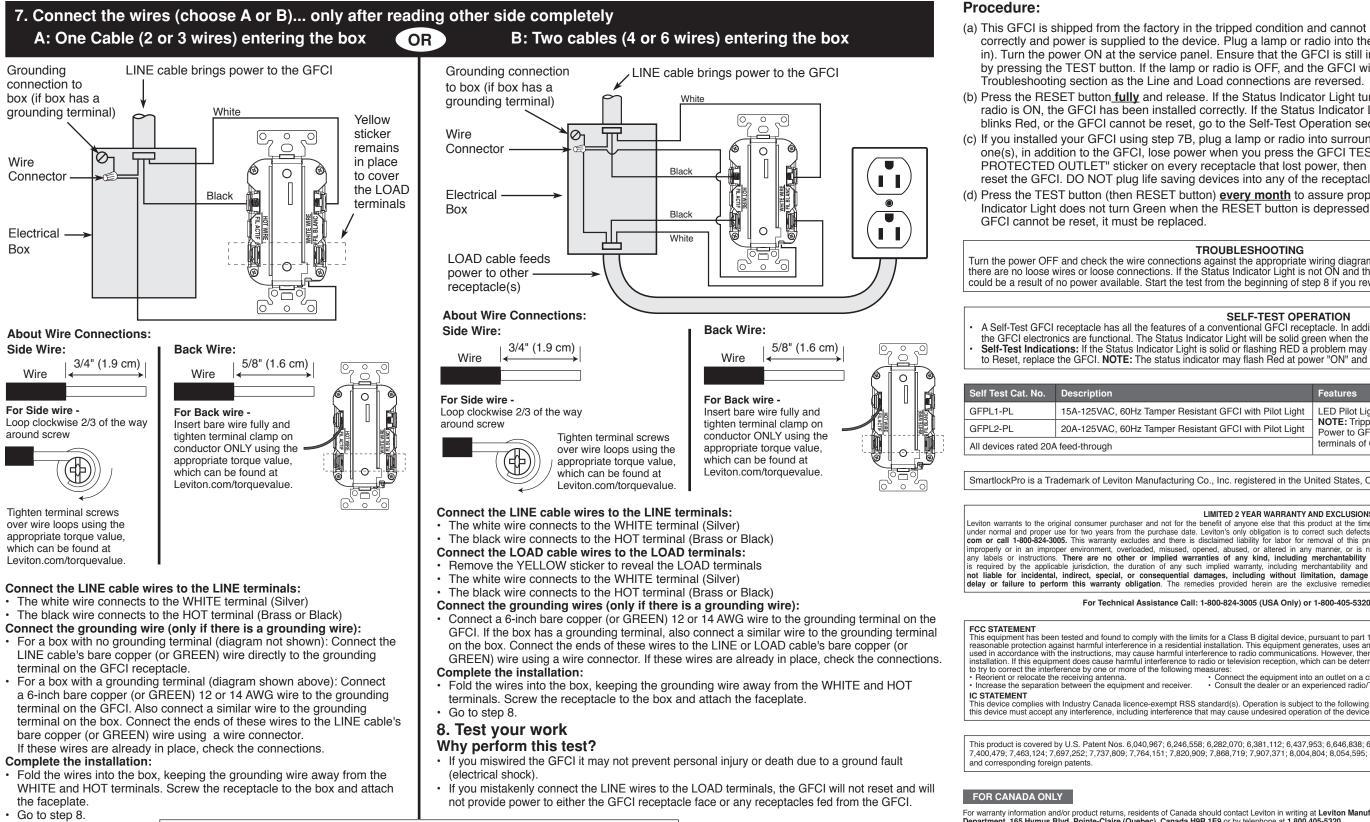
Placement in circuit:

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

Sample circuit:



Placing the GFCI in position A will also provide protection to "load side" receptacles B and C. On the other hand, placing the GFCI in position C will not provide protection to receptacles A or B. Remember that receptacles A. B. and C can be in different rooms.



NOTE: LINE and LOAD wiring terminals accept #10 - #14 AWG solid or stranded copper wire.

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(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. 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 still in the tripped condition by pressing the TEST button. If the lamp or radio is OFF, and the GFCI will not reset, go to the

(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 the Self-Test Operation section.

(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 receptacles that lost power.

(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

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. 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 rewired any connections to the GFCI.

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. The Status Indicator Light will be solid green when the GFCI is powered from Line side and working correctly. 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. NOTE: The status indicator may flash Red at power "ON" and Reset.

	Features
esistant GFCI with Pilot Light	LED Pilot Light turns ON when GFCI is RESET. NOTE: Tripping GFCI turns LED Pilot Light OFF. Power to GFCI and any downstream receptacles fed from load
esistant GFCI with Pilot Light	
	terminals of GFCI will not be available until GFCI is RESET.

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LIMITED 2 YEAR WARRANTY AND EXCLUSIONS

Leviton warrants to the original consumer purchaser and not for the benefit of anyone else that this product at the time of its sale by Leviton is free of defects in materials and workmanship under normal and proper use for two years from the purchase date. Leviton's only obligation is to correct such defects by repair or replacement, at its option. For details visit www.leviton. com or call 1-800-824-3005. This warranty excludes and there is disclaimed liability for labor for removal of this product or reinstallation. This warranty is void if this product is installed improperly or in an improper environment, overloaded, misused, opened, abused, or altered in any manner, or is not used under normal operating conditions or not in accordance with any labels or instructions. There are no other or implied warranties of any kind, including merchantability and fitness for a particular purpose, but if any implied warranty is required by the applicable jurisdiction, the duration of any such implied warranty, including merchantability and fitness for a particular purpose, is limited to two years. Leviton is not liable for incidental, indirect, special, or consequential damages, including without limitation, damage to, or loss of use of, any equipment, lost sales or profits or delay or failure to perform this warranty obligation. The remedies provided herein are the exclusive remedies under this warranty, whether based on contract, tort or otherwise.

For Technical Assistance Call: 1-800-824-3005 (USA Only) or 1-800-405-5320 (Canada Only) www.leviton.com

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

 Connect the equipment into an outlet on a circuit different from that to which the receiver is connected · Consult the dealer or an experienced radio/TV technician for help.

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 product is covered by U.S. Patent Nos. 6.040.967: 6.246.558; 6.282.070: 6.381.112: 6.437.953; 6.646.838: 6.657.834; 6.788.173; 6.864.766; 6.944.001; 7.336.458; 7.355.117; 7,400,479; 7,463,124; 7,697,252; 7,737,809; 7,764,151; 7,820,909; 7,868,719; 7,907,371; 8,004,804; 8,054,595; 8,130,480; 8,242,362; 8,547,126; 8,587,914; 8,599,522; 9,077,091

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 Assurance Department, 165 Hymus Blvd, Pointe-Claire (Quebec), Canada H9R 1E9 or by telephone at 1 800 405-5320.





