smartlockpro™

Installing and **Testing a GFCI** Receptacle with an Audible Alarm

Please read this leaflet completely before getting started.

PK-A3105-10-00-2A

LEVITON

3. Should you install it?

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

Make sure that you:

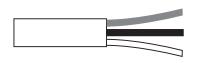
- Understand basic wiring principles and techniques
- Can interpret wiring diagrams
- Have circuit wiring experience
- Are prepared to take a few minutes to test your work, making sure that you have wired the GFCI receptacle correctly

- To prevent severe shock or electrocution always turn the power OFF at the service panel before working with wiring.
- Use this GFCI 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.

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 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 vellow sticker. Do NOT remove the sticker at this time.

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.

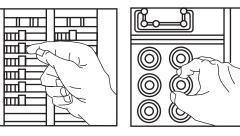
NOTE:

GFCI'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

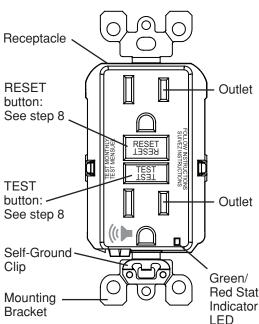
Plug an electrical device, such as a lamp or radio, into the receptacle on which you are working. Turn the lamp or radio ON. Then, go to the service panel. Find the breaker or fuse that protects that receptacle. Place the breaker in the OFF position or completely remove the fuse. The lamp or radio must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

Important:

wires.

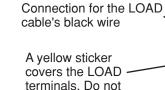
Procedure: box with two (2) cables (4-6 wires):

- cable.
- ON at the service panel.
- the LINE wires.
- remove the receptacle.
- (e) Go to step 7B.

- 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.

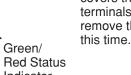
If you are replacing an old receptacle, pull it out of the electrical box without disconnecting the

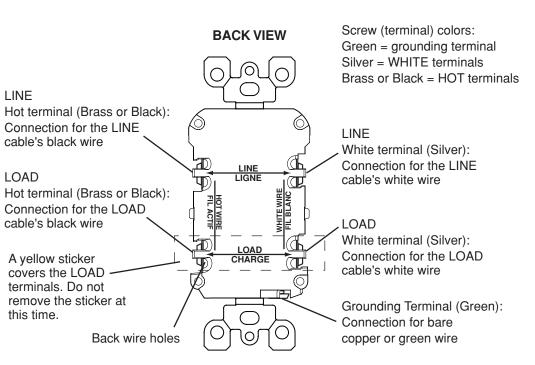
- If you see one cable (2-3 wires), it is the LINE cable. The receptacle is probably in position C (see diagram to the right). Remove the receptacle and go to step 7A.
- If you see two cables (4-6 wires), the receptacle is probably in position A or B (see diagram to the right). Follow steps a-e of the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



LINE

LOAD





(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

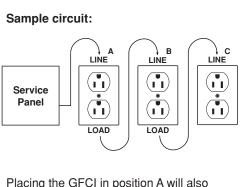
(b) Re-install the receptacle in the electrical box. attach faceplate. then turn the power

(c) Determine if power is flowing to the 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:

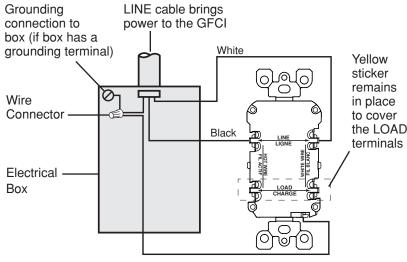
The GFCI's place in the circuit determines if it protects other receptacles in the circuit.



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.

7. Connect the wires (choose A or B)... only after reading other side completely A: One Cable (2 or 3 wires) entering the box OR

(0)@(0



Back Wire:

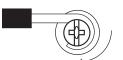
Wire

About Wire Connections: Side Wire:



For Side wire Loop clockwise 2/3 of the

way around screw



For Back wire -Insert bare wire fully and tighten terminal clamp on conductor ONLY

5/8" (1.6 cm)

Connect the LINE cable wires to the LINE terminals:

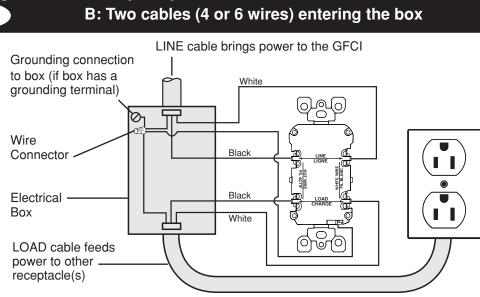
- The white wire connects to the WHITE terminal (Silver)
- The black wire connects to the HOT terminal (Brass or Black)

Connect the grounding wire (only if there is a grounding wire):

- For a box with no grounding terminal (diagram not shown): Connect the LINE cable's bare copper (or GREEN) wire directly to the grounding terminal on the GFCI receptacle.
- For a box with a grounding terminal (diagram shown above): Connect a 6-inch bare copper (or GREEN) 12 or 14 AWG wire to the grounding terminal on the GFCI. Also connect a similar wire to the grounding terminal on the box. Connect the ends of these wires to the LINE cable's bare copper (or GREEN) wire using a wire connector. If these wires are already in place, check the connections.

Complete the installation:

- Fold the wires into the box, keeping the grounding wire away from the WHITE and HOT terminals. Screw the receptacle to the box and attach the faceplate.
- Go to step 8.



Back Wire:

Wire

ONLY

For Back wire -

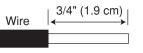
Insert bare wire fully

and tighten terminal

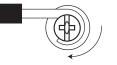
clamp on conductor

5/8" (1.6 cm)

About Wire Connections: Side Wire:



Loop clockwise 2/3 of the



Connect the LINE cable wires to the LINE terminals:

- The white wire connects to the WHITE terminal (Silver)
- The black wire connects to the HOT terminal (Brass or Black) Connect the LOAD cable wires to the LOAD terminals:
- Remove the YELLOW sticker to reveal the LOAD terminals
- The white wire connects to the WHITE terminal (Silver)
- The black wire connects to the HOT terminal (Brass or Black)
- Connect the grounding wires (only if there is a grounding wire):
- Connect a 6-inch bare copper (or GREEN) 12 or 14 AWG wire to the grounding terminal on the GFCI. If the box has a grounding terminal, also connect a similar wire to the grounding terminal on the box. Connect the ends of these wires to the LINE or LOAD cable's bare copper (or GREEN) wire using a wire connector. If these wires are already in place, check the connections.

Complete the installation:

- Fold the wires into the box, keeping the grounding wire away from the WHITE and HOT terminals. Screw the receptacle to the box and attach the faceplate
- Go to step 8.

8. Test your work

Why perform this test?

- If you miswired the GFCI it may not prevent personal injury or death due to a ground fault (electrical shock)
- If you mistakenly connect the LINE wires to the LOAD terminals, the GFCI will not reset and will not provide power to either the GFCI receptacle face or any receptacles fed from the GFCI.

Procedure:

- Troubleshooting section.
- button to reset the GFCI.
- cannot be reset, then it must be replaced.

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.

Cat. No.	Description	Levit its sa purch www produ misu with fitne any si
GFTA1	15A-125VAC, 60Hz Audible Self-Test Tamper Resistant GFCI Receptacle	
GFTA2	20A-125VAC, 60Hz Audible Self-Test Tamper Resistant GFCI Receptacle	
All devices rated 20A feed-through		or lo

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FCC STATEMENT

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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 following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Consult the dealer or an experienced radio/TV technician for help.

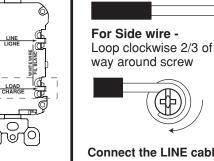
IC STATEMENT

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

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; 8,944,859 and corresponding foreign patents (*applies only to Cat. No. GFTA2)

FOR CANADA ONLY

For warranty information and/or product returns, residents of Canada should contact Leviton in writing at Leviton Manufacturing of Canada Ltd 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.



(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. The GFCI should be emitting an audible alert and the LED indicator should be OFF.

(b) Press the RESET button fully. If the lamp or radio turns ON, the audible alert turns OFF, and the LED indicator is ON, the GFCI has been installed correctly. If the GFCI cannot be reset, go to the

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

(d) Press the TEST button (then RESET button) every month to assure proper operation. If the GFCI

(e) To turn off audible alert when GFCI cannot be reset: press and hold the RESET button fully for 3 seconds to stop the audible alert and then contact Leviton Customer Service or your local electrician.

TROUBLESHOOTING

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.

LIMITED 2 YEAR WARRANTY AND EXCLUSIONS

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

> For Technical Assistance Call: 1-800-824-3005 (U.S.A. Only) 1 800 405-5320 (Canada Only) www.leviton.con

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.





