



# Legrand 1597NTLTRDBCC4 Self-Test GFCI Outlet User Manual

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**Legrand 1597NTLTRDBCC4 Self-Test GFCI Outlet**



## 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.

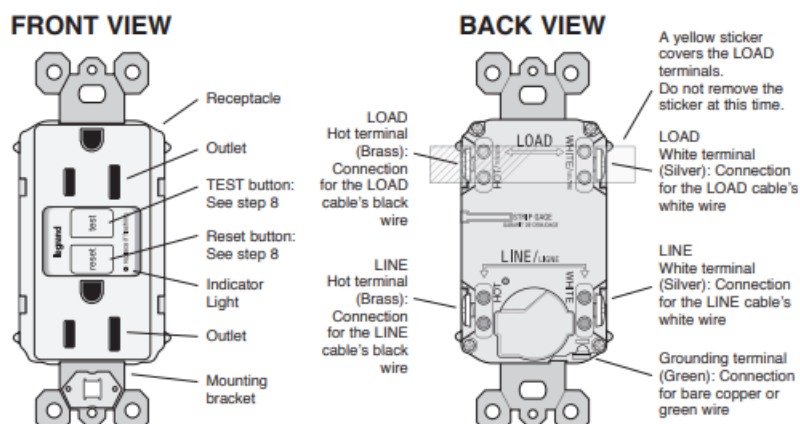
### Definition of a ground fault:

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.

### Self-Test GFCI Receptacle with SafeLock Protection

This is a Self-Test GFCI Receptacle with SafeLock™ Protection; it conducts an automatic test every three seconds, ensuring it's always ready to protect. If the device fails the test, the indicator light flashes to signal that the GFCI should be replaced. It also has our proven SafeLock Protection feature: if critical components are damaged and protection is lost, power to this receptacle, and any downstream receptacles, will be disconnected.

## The GFCI's features



## Should you install it?

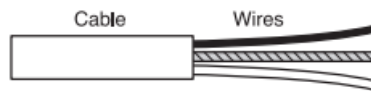
Installing a GFCI receptacle can be more complicated than installing a conventional receptacle.

### 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

## LINE vs. LOAD

A cable consists of 2 or 3 wires



### LINE cable:

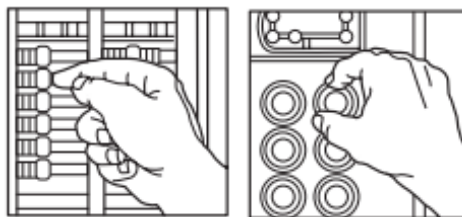
Delivers power from the service panel (breaker panel or fuse box) to the GFCI. If there is only one cable entering the electrical box, it is the LINE cable. This cable should be connected to the GFCI's LINE terminals only.

### 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 yellow sticker. Do not remove the sticker at this time.

### 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 should 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.

## Identify cables/wires

### IMPORTANT:

Do not install the GFCI receptacle in an electrical box containing (a) more than 4 wires (not including the grounding wires) or (b) cables with more than two wires (not including the grounding wire). Contact a qualified electrician if either (a) or (b) is true.

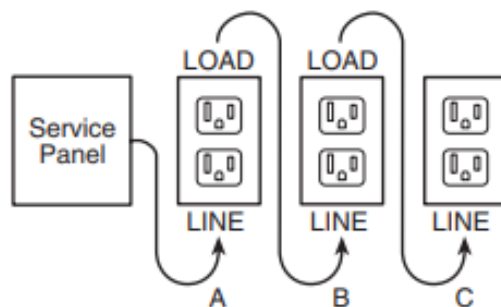
- If you are replacing an old receptacle, pull it out of the electrical box without disconnecting the wires.
- If you see one cable (2-3 wires), it is the LINE cable. The receptacle is probably in position C (see diagram to the right). Remove the receptacle and go to step 7A.
- If you see two cables (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 cables (4-6 wires)

- Detach one cable's white and hot wires from the receptacle and cap each one separately with a wire connector. Make sure that they are from the same cable.
- Re-install the receptacle in the electrical box, attach the faceplate, then turn the power ON at the service panel.
- Determine if power is flowing to the receptacle. If so, the capped wires are the LOAD wires. If not, the capped wires are the LINE wires.
- Turn the power OFF at the service panel, label the LINE and LOAD wires, then remove the receptacle.
- Go to step 7B.

#### 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

#### Connect the wires

Connect the wires (choose A or B)... only after reading other side completely

#### A: One cable (2 or 3 wires) entering the box

##### 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)

##### 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.

### **B: Two cables (4 or 6 wires) entering the box**

#### **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)

#### **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)

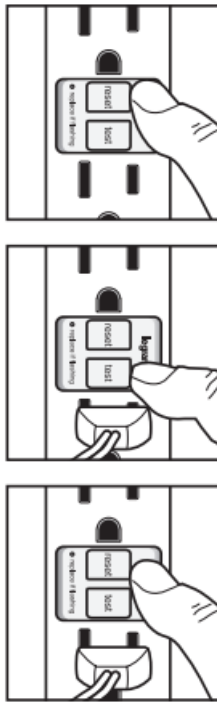
#### **Connect the grounding wires as shown above (only if there is a grounding wire):**

- 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 and 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.

### **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).

### Procedure

- Turn the power ON at the service panel. Press the RESET button fully. The RESET button should stay in. If the RESET button does not stay in, go to Troubleshooting. If the RESET button stays in, plug a lamp or radio into the GFCI (and leave it plugged in) to verify that the power is ON. If there is no power, go to Troubleshooting.
- Press the TEST button in order to trip the device. This should stop the flow of electricity, making the radio or lamp shut OFF and the GFCI's red Indicator Light (if present) come on. Note that the RESET button will pop-out. If the power stays ON, or the red Indicator Light stays off, go to Troubleshooting. If the power goes OFF, and the red Indicator Light comes on, you have installed the GFCI receptacle correctly. To restore power, press the RESET button.
- 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, lost power when you pressed the TEST button. Do not plug life saving devices into any receptacles that lost power. Place a "GFCI Protected" sticker on every receptacle that lost power.
- Press the TEST button (then RESET button) every month to assure proper operation.
- This is a Self-Test GFCI Receptacle with SafeLock Protection™; it conducts an automatic test every three seconds, ensuring it's always ready to protect. If the device fails the test, the indicator light flashes to signal that the GFCI should be replaced. It also has our proven SafeLock Protection feature: if critical components are damaged and protection is lost, power to this receptacle, and any downstream receptacles, will be disconnected.

### 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. LINE/LOAD reversal will be indicated by no power at the GFCI and by the RESET button not staying in when pressed, or by the red Indicator Light remaining off after you press the GFCI's TEST button.

Reverse the LINE and LOAD connections if necessary. Start the test from the beginning of step 8 if you rewired any connections to the GFCI.

## **WARRANTY**

### **LIMITED ONE YEAR WARRANTY**

Pass & Seymour will remedy any defect in workmanship or material in Pass & Seymour products which may develop under proper and normal use within one year from date of purchase by a consumer:

- by repair or replacement, or, at Pass & Seymour's option,
- by return of an amount equal to consumer's purchase price. Such remedy is IN LIEU OF ANY AND ALL EXPRESSED OR IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

Such remedy by Pass & Seymour does not include or cover cost of labor for removal or reinstallation of the product.

ALL OTHER FURTHER ELEMENTS OF DAMAGE (INCIDENTAL OR CONSEQUENTIAL DAMAGES) FOR BREACH OF ANY AND ALL EXPRESSED OR IMPLIED WARRANTIES INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXCLUDED HEREBY.

(Some states do not allow disclaimers or exclusion or limitation of incidental or consequential damages, so the above disclaimer and limitation or exclusion may not apply to you.)

ANY IMPLIED WARRANTIES INCLUDING WHERE REQUIRED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE SHALL BE LIMITED TO THE ONE YEAR PERIOD SET FORTH ABOVE.

(Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.) To insure safety, all repairs to Pass & Seymour products must be made by Pass & Seymour, or under its specific direction. Procedure to obtain performance of any warranty obligation is as follows:

- Contact Pass & Seymour, Syracuse, New York 13221, for instructions concerning return or repair;
- return the product to Pass & Seymour, postage paid, with your name and address and a written description of the installation or use of the Pass & Seymour product, and the observed defects or failure to operate, or other claimed basis for dissatisfaction.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

## **FAQs**

What is the Legrand 1597NTLTRDBCC4 Self-Test GFCI Outlet?

The Legrand 1597NTLTRDBCC4 is a Self-Test GFCI Outlet that provides electrical shock protection by detecting ground faults and interrupting the flow of electricity to prevent accidents.

How does the Self-Test feature work on this GFCI outlet?

The Self-Test feature automatically checks the functionality of the GFCI outlet at regular intervals to ensure it is operating correctly and providing continued protection.

Is this GFCI outlet suitable for both indoor and outdoor use?

The Legrand 1597NTLTRDBCC4 GFCI Outlet is typically suitable for both indoor and outdoor applications, as it is designed to withstand various environmental conditions.

What is the voltage and amperage rating of this GFCI outlet?

Please check the product specifications for the specific voltage and amperage rating of the Legrand 1597NTLTRDBCC4 GFCI Outlet as it may vary.

Does it come with tamper-resistant features?

Yes, this GFCI outlet is often equipped with tamper-resistant receptacles to enhance safety, especially in homes with children.

Can multiple devices be plugged into this GFCI outlet simultaneously?

Depending on the design, this GFCI outlet may accommodate multiple devices, but it's important to adhere to the specified load capacity.

Is professional installation required, or can it be installed by DIY enthusiasts?

Installation requirements may vary, but it's generally recommended to have electrical outlets installed by a qualified electrician.

Is there a warranty provided for the Legrand 1597NTLTRDBCC4 Self-Test GFCI Outlet?

Check the product documentation or contact the manufacturer for information about any warranty coverage.

Does it meet any specific safety certifications or standards?

The GFCI outlet may be certified to meet specific safety standards; be sure to verify the certifications it holds.

Are there any maintenance or testing requirements for this GFCI outlet?

Regular testing and maintenance may be necessary to ensure the GFCI outlet continues to provide proper protection. Follow the manufacturer's guidelines.

Is it easy to reset the GFCI outlet after a trip or fault?



Most GFCI outlets feature a reset button that can be easily pressed to restore power after a trip or fault. Refer to the product manual for reset instructions.

Can it be used in wet or damp locations, such as bathrooms or kitchens?

Yes, GFCI outlets like the Legrand 1597NTLTRDBCC4 are commonly used in wet or damp locations to provide protection against electrical shocks in areas where water is present.

Does this GFCI outlet offer protection against both ground faults and overloads?

While it primarily provides protection against ground faults, some models may offer additional overload protection. Check the product specifications for details.

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## References

- [User Manual](#)