

ELECTRIC CONVECTION BUILT-IN OVEN Installation Guide

MF51224802_14

ENGLISH

Part 1 SAFETY

1 BEFORE BEGINNING

Remove all tape and packing materials before using the oven. Dispose of all plastic bags after unpacking the oven.

Never allow children to play with packing materials.

You can download an installation manual at <http://www.lg.com>.

IMPORTANT SAFETY INSTRUCTIONS

Read and follow all instructions before using the oven to prevent the risk of fire, electric shock, injury to persons, or damage when using the oven. This guide does not cover all possible conditions that may occur. For further assistance contact the service agent or manufacturer.

This is the safety alert symbol. This symbol alerts you to potential hazards that can kill or hurt you and others. All safety messages will follow the safety alert symbol and either the word "WARNING" or "CAUTION". These words mean:

WARNING This symbol will alert you to hazards or unsafe practices which could cause serious bodily harm or death.

CAUTION This symbol will alert you to hazards or unsafe practices which could cause bodily injury or property damage.

WARNING

The information in this manual should be followed exactly.

- Failure to do so could result in fire or electrical shock, causing property damage, personal injury or death.
- **DO NOT put any weight on the oven door. Never allow anyone to climb, sit, stand or hang on the oven door.**
- The oven could be tipped and injury might result from contact with hot food or the oven itself.
- **The electrical power must be shut off while the electrical connections are being made.**
- Failure to do so can result in severe personal injury, death or electrical shock.
- **New branch-circuit installations (1996 NEC), mobile homes, recreational vehicles, or installations where local codes prohibit grounding through the neutral conductor require 4-wire branch-circuit connection.**
- **Improper connection of aluminum house wiring to copper leads can result in an electrical hazard or fire. Use only connectors designed for joining copper to aluminum and follow the manufacturer's recommended procedure closely.**
- **Mounting screws must be used.**
- Failure to do so can result in the oven falling out of the cabinet causing serious injury.

CAUTION

- **Make sure the cabinets and wall coverings around the oven can withstand the temperature (up to 194°F/90°C) generated by the oven.**
- Discoloration, delamination or melting may occur.
- **DO NOT remove spacers on the side walls of the built-in oven.**
- These spacers center the oven in the space provided. The oven must be centered to prevent excess heat buildup that may result in heat damage or fire.
- **DO NOT block the oven air exhaust located at the bottom of the oven.**
- Blocking the exhaust may cause cabinet damage and product malfunction.

IMPORTANT NOTE

This installation must be completed by a qualified installer or technician.

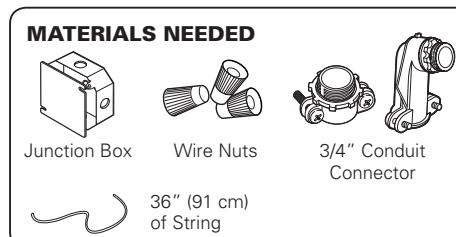
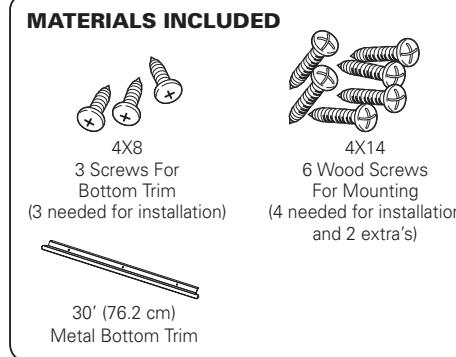
Proper installation is the responsibility of the installer and product failure due to improper installation is NOT covered under warranty.

• Installer: please retain these instructions for local inspector's reference, then leave them with the consumer.

• Consumer: please read and keep these instructions for future reference and be sure to read the entire OWNER'S MANUAL prior to use.

• Do not use the parts except for provided components when you install the product.

REQUIRED TOOLS



Part 2 INSTALLATION REQUIREMENTS

The first step of the installation is to measure the current cutout dimensions and compare them to the cutout dimensions shown below. Little or no cabinet work may be necessary.

IMPORTANT NOTE

- The cabinet base platform must be able to support 190lbs (86kg) for a single built-in oven, 325lbs (147kg) for double built-in oven. If the cabinet does not have a solid bottom, two braces or runners must be installed level with the bottom of the cutout to support the weight of the oven. Make sure the base is level and the front of the cabinet is square. If the cabinet base is not level, the oven slides will tend to slide out when opening the door.
- If marks, blemishes or the cutout opening are visible above the installed oven, it may be necessary to add wood shims under the runners and front trim until the marks or opening are covered.
- If the cabinet does not have a front frame and the sides are less than 3/4" (1.9 cm) thick, shim both sides equally to establish the cutout width.
- The junction box must be flush with the rear wall of the cabinet as shown below.
- Allow at least a 23" clearance for the door depth when it is open.
- Kitchen cabinets in contact with the oven must be heat resistant up to 194°F (90°C), and fronts of nearby units up to at least 150°F (70°C).

1 INSTALLATION DRAWINGS (FOR 30" SINGLE BUILT-IN OVEN)

Cutout dimensions

Cabinet Width 30" (762 mm)

Recommended Minimum Cutout Location from Floor 31" (787.4 mm)

Cutout Depth 23 1/2" Min. (596.9 mm)

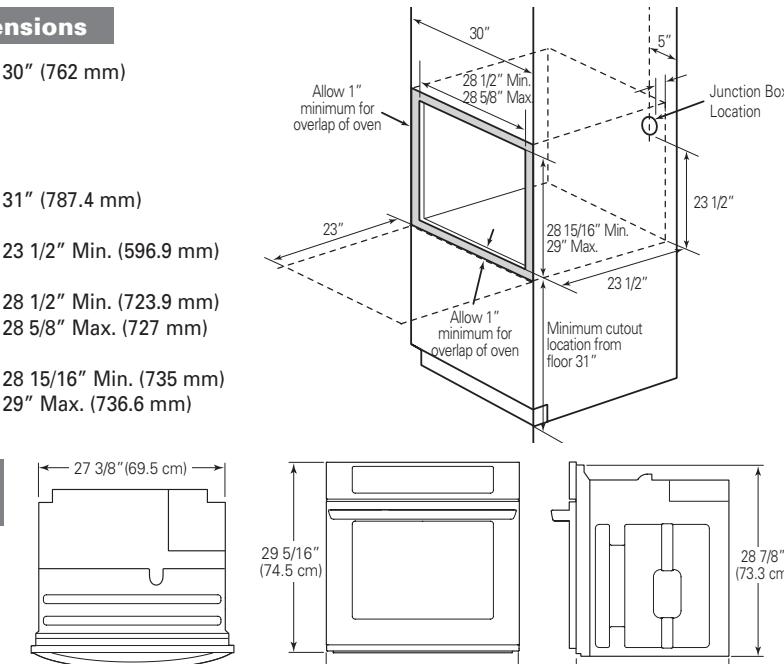
Cutout Width 28 1/2" Min. (723.9 mm)

28 5/8" Max. (727 mm)

Cutout Height 28 15/16" Min. (735 mm)

29" Max. (736.6 mm)

Product dimensions



2 INSTALLATION DRAWINGS (FOR 30" DOUBLE BUILT-IN OVEN)

Cutout dimensions

Cabinet Width 30" (762 mm)

Recommended Minimum Cutout Location from Floor 12" (304.8 mm)

Cutout Depth 23 1/2" Min. (596.9 mm)

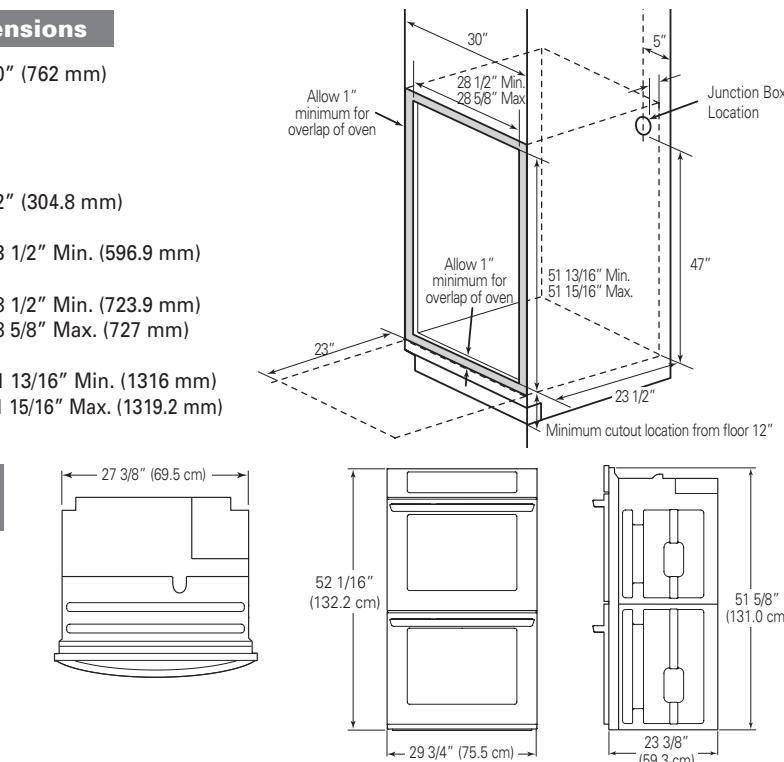
Cutout Width 28 1/2" Min. (723.9 mm)

28 5/8" Max. (727 mm)

Cutout Height 51 13/16" Min. (1316 mm)

51 15/16" Max. (1319.2 mm)

Product dimensions



Part 3 ELECTRICAL CONNECTIONS

1 ELECTRICAL CONNECTION REQUIREMENTS

The third step of the installation is to follow the electrical connection requirements below. Ensure that dedicated circuit protection is prepared as recommended and that the oven is grounded properly.

IMPORTANT NOTE

Be sure the wall oven is installed and grounded properly by a qualified installer or service technician.

• This wall oven must be electrically grounded in accordance with local codes or, in their absence, with the National Electrical Code ANSI/NFPA No.70- latest edition* in United States, or with CSA Standard C22.1-1982 and C22.2 No.0.1982 (or latest edition)**, Canadian Electrical Code, Part 1, and all local codes and ordinances.

• This wall oven must be supplied with the proper voltage and frequency, and connected to an individual, properly grounded branch circuit, protected by a circuit breaker or fuse. To know the circuit breaker or fuse required by this model, see the rating plate to find the wattage consumption and refer to the table below to get the circuit breaker or fuse amperage.

Appliance Rating Watts 240 V	Protection Circuit recommended	Appliance Rating Watts 208 V	Protection Circuit recommended
less than 4800 W	20 A	less than 4100 W	20 A
4800 W - 7200 W	30 A	4100 W - 6200 W	30 A
7200 W - 9600 W	40 A	6200 W - 8300 W	40 A
9600 and +	50 A	8300 and +	50 A

• A double wall oven can consume up to 7,800 W at 240 VAC.

A 40 Amp circuit breaker with wire gauge #8 AWG must be used.

• A single wall oven can consume up to 4,100 W at 240 VAC.

A 30 Amp circuit breaker with wire gauge at least #10 AWG must be used.

• Do not ground to a gas pipe.

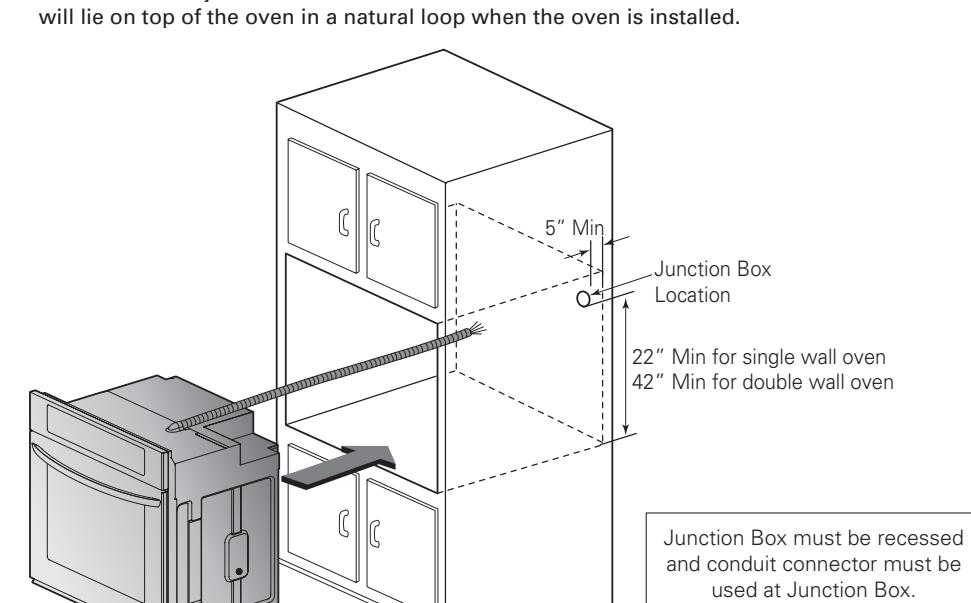
• Do not have a fuse in the neutral or grounding circuit.

• A U.L.-listed conduit connector must be provided at the junction box.

2 ELECTRICAL CONNECTION

The fourth step of the installation is to prepare the electrical connection as follows:

1. Turn off the circuit breaker or remove fuses to the oven branch circuit.
2. With the oven positioned directly in front of the cabinet opening, connect the flexible conduit to the electrical junction box as shown below. Position the conduit in such a manner that it will lie on top of the oven in a natural loop when the oven is installed.



3. If local codes permit connection of the frame grounding conductor to the neutral (white) wire, follow the instructions for a 3-wire circuit connection.

4. If used in mobile homes or new construction, or a recreational vehicle, or local codes do not permit connection of the frame grounding conductor to the neutral (white) wire, follow the instructions for a 4-wire circuit connection.

IMPORTANT NOTE

- The wall ovens must be hard wired (direct wired) into an approved junction box. A plug and receptacle is not permitted on these products.
- DO NOT shorten the flexible conduit. The conduit connector must be securely attached to the junction box and the flexible conduit must be securely attached to the conduit connector. If the flexible conduit will not fit within the connector, do not install the oven until a connector of the proper size is obtained.

• You will need to purchase an appropriate conduit connector to complete the connection of the conduit to the junction box.

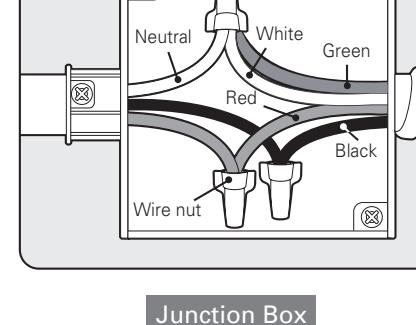
NOTE TO ELECTRICIAN

The power leads supplied with the appliance are UL, CSA recognized for connection to larger gauge household wiring. The insulation of these leads is rated at temperatures much higher than the temperature rating of household wiring. The current carrying capacity of the conductor is governed by the wire gauge and the temperature rating of the insulation around the wire.

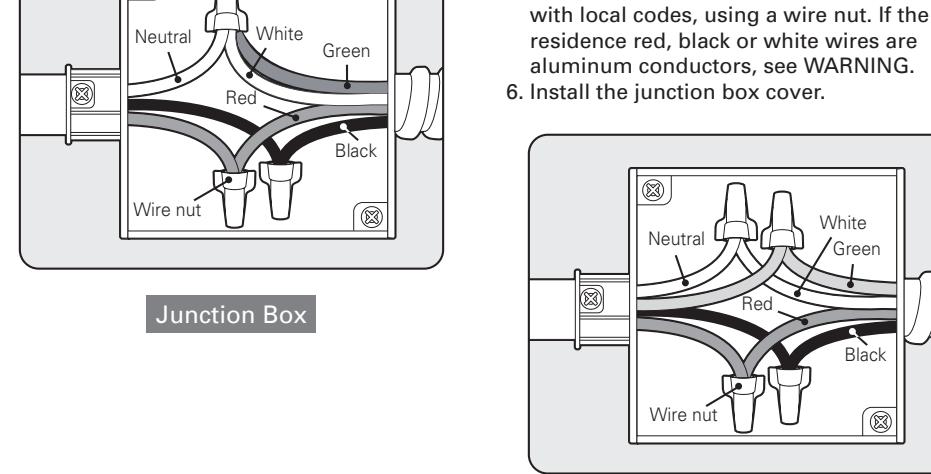
3-wire circuit connection

To connect to a three-wire circuit, follow these steps:

1. Connect the oven ground (green) wire and neutral (white) wire to the branch circuit neutral (white or gray in color) wire, using a wire nut.
2. Connect the oven red wire to the branch circuit red (L2) wire in accordance with local codes, using a wire nut. If the residence red, black or white wires are aluminum conductors, see WARNING.
3. Connect the oven black wire to the branch circuit black (L1) wire in accordance with local codes, using a wire nut. If the residence red, black or white wires are aluminum conductors, see WARNING.
4. Install the junction box cover.



Junction Box

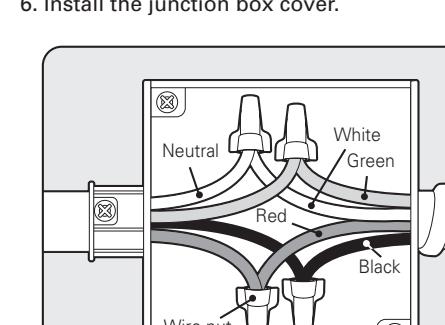


Junction Box

4-wire circuit connection

To connect to a four-wire circuit, follow these steps:

1. Separate the oven ground and white wires if necessary.
2. Connect the oven ground (green) wire to the branch circuit ground (green) wire in accordance with local codes, using a wire nut. If the residence red, black or white wires are aluminum conductors, see WARNING.
3. Connect the oven white wire to the branch circuit neutral (white or gray in color) wire in accordance with local codes, using a wire nut.
4. Connect the oven red wire to the branch circuit red (L2) wire in accordance with local codes, using a wire nut. If the residence red, black or white wires are aluminum conductors, see WARNING.
5. Connect the oven black wire to the branch circuit black (L1) wire in accordance with local codes, using a wire nut. If the residence red, black or white wires are aluminum conductors, see WARNING.
6. Install the junction box cover.



Junction Box

Part 4 INSTALL THE OVEN

1 CABINET INSTALLATION

The fifth step of the installation is to install the oven into the cabinet as follows:

1. Sliding the oven into the opening.

a. Loop (do not tie) a 36" (91 cm) string around the conduit before the oven is slid into place. This will keep the conduit from falling behind the oven.

b. Lift oven into cabinet cutout using the oven opening as a grip. Carefully push against the oven front frame.

Do not push against outside edges.

c. While sliding the oven back, pull the string so that the conduit lies on the top of the oven in a natural loop.

d. When you are sure the conduit is out of the way, slide the oven 3/4 way back into the opening.

Remove the string by pulling on one end of the loop.

2. Securing the oven.

a. Using the mounting holes on the oven side trim as a guide, drill pilot holes for screws provided (For securing the double wall oven, use a minimum of 4 screws, one on each side in both the upper and lower ovens).

For securing the single wall oven, use a minimum of 2 screws, one on each side.)

b. Secure the oven to the cabinet with screws provided.

If the cabinet is particle board, you must use 3/4" particle board screws. These may be purchased at any hardware store.

3. Installing the metal bottom trim.

a. Place the metal bottom trim centered over the pre-drilled mounting holes on the lower base.