INSTALLATION

Before Installing

Online Installation Guide

This QR code is for reference only. For complete installation instructions, see the owner's manual supplied with each dishwasher.

English (USA)

https://www.lg.com/us/support/video-tutorials/lg-dishwasher-installation-CT10000009-1366643457088

English (CANADA)

https://www.lg.com/ca_en/support/video-tutorials/CT20098058-1424294103269

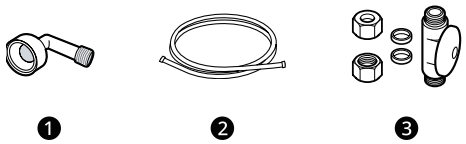
French (CANADA)

https://www.lg.com/ca_fr/soutien/aide-produit/CT20100059-20152463332979

⚠ WARNING

- DISCLAIMER - This Guide is strictly confidential and shall not be copied, disclosed, distributed, disseminated, publicized or reproduced, in whole or in part, without the prior written authorization of LG Electronics.
  The Guide may contain inaccuracies and/or typographical errors and may be changed or updated at any time by LGE without notice.

Parts not Provided



❶ Elbow connection with 3/4" female hose threads on one end fits your water supply line on the other.

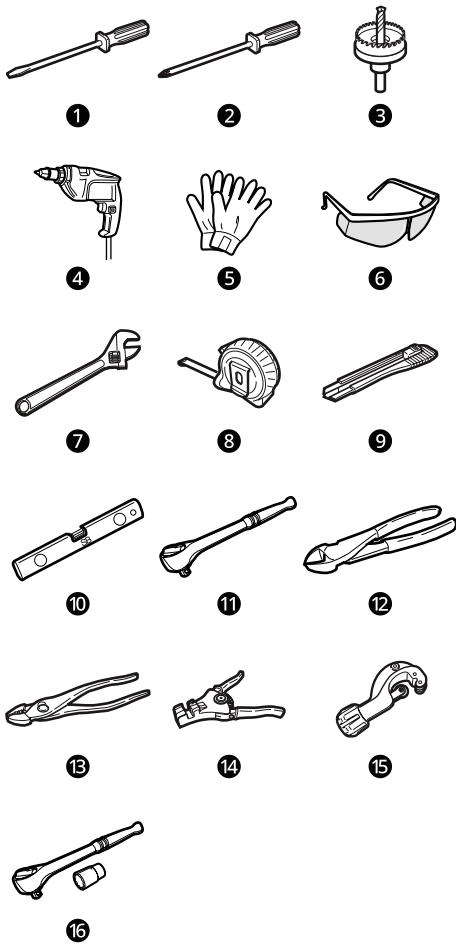
❷ Water inlet hose - minimum 3/8" outer diameter copper tubing or metal braided dishwasher supply line.

❸ Shut-off valve and fittings appropriate for hot water supply line.

NOTE

- Power cord installation kit is available on LG.com, part number AEM75698901 (Model name : D-PC1)
- Inlet hose installation kit is available on LG.com, part number AEM75698902.
- Drain extension hose installation kit is available on LG.com, part number AEM75698903.

Tools Needed



❶ Flat-Blade Screwdriver

❷ Phillips Screwdriver

❸ Hole Saw min. 2 1/2" bit

❹ Electric Drill

❺ Gloves

❻ Safety Glasses

❼ Adjustable Wrench

❽ Tape Measure

❾ Utility Knife

❿ Level

⓫ 1/4" Square Drive Wrench

⓬ Nipper

⓭ Pliers

⓮ Wire Stripper

⓯ Tubing Cutterr

⓰ 3/8" Square Drive Wrench + 1/2" Socket

Installation Overview

Please read the following installation instructions first after purchasing this dishwasher or transporting it to another location.

❶ Preparing Cabinet Opening

❷ Preparing Water and Electrical Connections

❸ Preparing Dishwasher

❹ Sliding Dishwasher into Cabinet Opening

❺ Connecting Water Supply Line and Power

❻ Connecting the Drain Hose

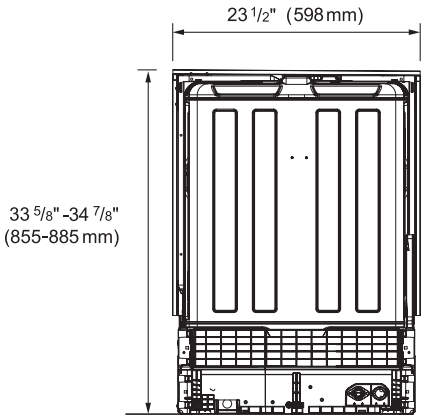
❼ Leveling Dishwasherr

❽ Securing Dishwasher in Cabinet Opening

❾ Final Installation Check

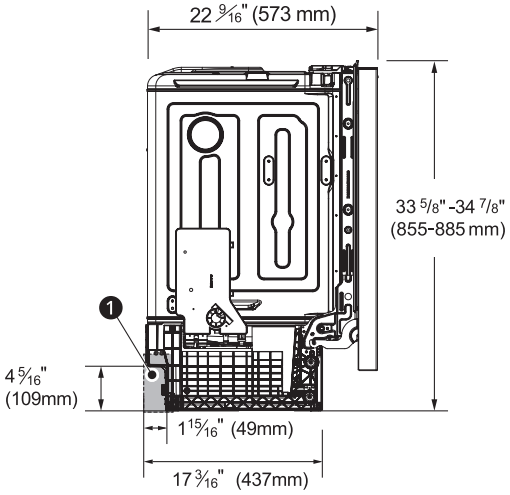
Product Dimensions

Back View



Side View

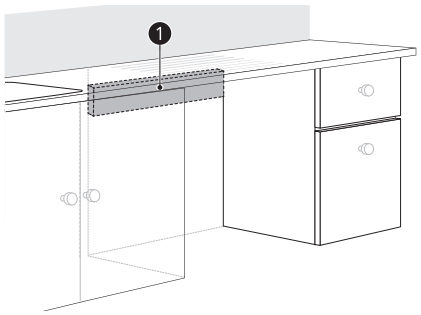
For easiest installation, see marked areas ❶ for water and electrical clearances in base of dishwasher. Water supply hose, drain hose and electric cable should be passed through this area.



Preparing Cabinet Opening

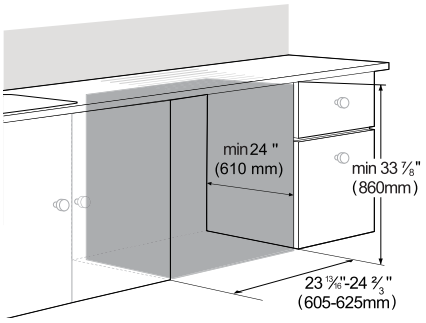
This dishwasher is designed to fit a standard dishwasher opening. An opening may be needed on both sides to route plumbing and electrical connections.

- To ensure proper drainage, install the dishwasher no more than 12 ft. (3.65 m) from the sink.
- The location must have sufficient space for the dishwasher door to open easily and provide at least 0.1" (2 mm) between the dishwasher and the cabinet sides.
- If installing the dishwasher in a corner, leave a minimum of 2" (50 mm) between the dishwasher and the adjacent wall.
- The adjacent wall must be free of obstructions. For flush installations only, you may remove the cabinet brace ❶ inside the cabinet.

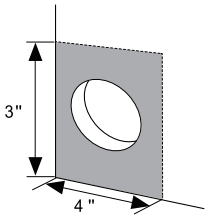


Choosing the Proper Location

1 Select a location as close to the sink as possible for easy connections to water supply line, drain hose and electrical connection.

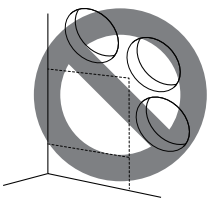


2 To allow for proper clearance of plumbing and electrical, use the template included with the literature to determine the clearance on the side of the cabinet where the cabinet meets the back wall. Using a 2 1/2” diameter hole saw, drill a hole in the target area as shown.

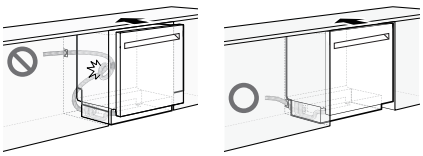


⚠ WARNING

- The opening must be at least 2 1/2" (63.5 mm) in diameter to prevent damage to the cables and hoses during installation.
- Installation damage is not covered by the warranty, and leaks caused by improper installation may result in property damage.
- Do not use existing holes unless they are in the target area.
- Failure to properly locate the hole for the water and drain lines may prevent the dishwasher from installing flush with the cabinets and could result in kinked, pinched, crushed, stressed or damaged lines.



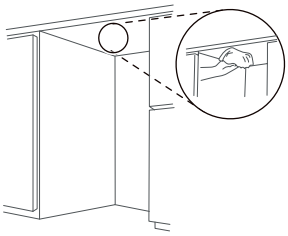
⚠ WARNING



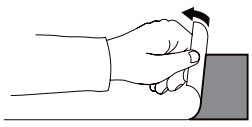
Installing Moisture Barrier Tape

Install the moisture barrier tape to the underside of the countertop to protect the surface from condensation when the appliance is opened.

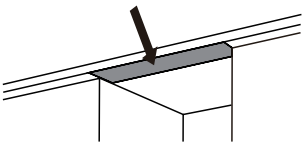
1 Clean and dry the inner surface of the top of the cabinet where moisture-proof stickers will be installed.



2 Remove the protective film from the back of the moisture-proof sticker.



3 Apply moisture-proof stickers to the inner surface of the top of the cabinet.



⚠ WARNING

- Condensation may occur on the underside or along the front edge of the countertop when the room temperature is low.

Preparing Water and Electrical Connections

⚠ WARNING

- Water Connection
  - Do not reuse an old hose. Use only a new hose when installing the dishwasher. The old hose could leak or burst causing flooding and property damage. Contact an LG Customer Information Center for assistance in buying a new hose.
- Electrical Connection
  - Use a time-delay fuse or circuit breaker.
  - Operate this appliance with the correct voltage as shown in this manual and on the rating plate.
  - The wiring must be grounded properly. If in doubt, have it checked by a qualified electrician.
  - Connect the appliance using 3-wires, including a ground wire.
  - The appliance and outlet must be positioned so that the plug is easily accessible.
  - Do not use an extension cable or adapter with this dishwasher.
  - Do not overload the outlet with more than one appliance.
  - The included 16AWG wire nuts should be used.
  - It is the personal responsibility and obligation of the product owner to have a proper outlet installed by a qualified electrician.

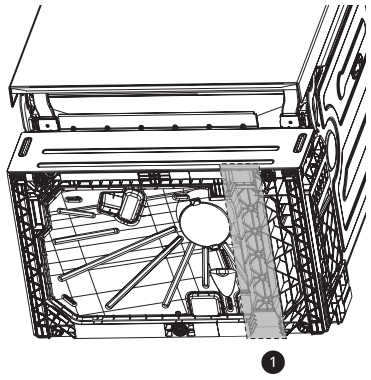
⚠ CAUTION

- When connecting the dishwasher water supply line to the house water supply, sealing tape or compound should be used on pipe threads to avoid leaks. Tape or compound should not be used on compression fittings.
- Connect the dishwasher to a hot water supply with a temperature range between 120 °F (49 °C) and 149 °F (65 °C). This temperature range provides the best washing results and shortest cycle time. To prevent damage to dishes, the temperature should not exceed 149 °F (65 °C).
- Water supply pressure must be between 5.8 psi and 145 psi (40–1000 kPa). If the water supply pressure exceeds 145 psi, a pressure reducing valve must be installed. Otherwise premature failure of the inlet valve may occur.

Routing Electrical Wiring

There are 1 channels in the bottom of the dishwasher for electrical connections.

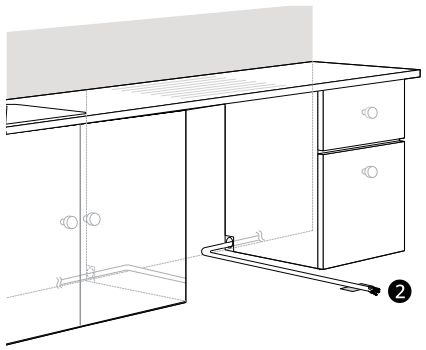
- As shown in the bottom view below, channel ❶ is for the electrical cable.



1 Turn off the house water supply and the circuit breaker or dedicated power before connecting the dishwasher.

2 Run the electrical cable ❷ along the floor and tape it in place.

- The power outlet shall be located between 4" (104.5 m) and 6.3" (160 m) to the right of the dishwasher.
- The best location for the electrical conduit is on the right side of the back wall. It is recommended to route the conduit centrally through the dishwasher's wiring channel.
- All dimensions are for reference only and shall be adjusted to suit the actual installation conditions.



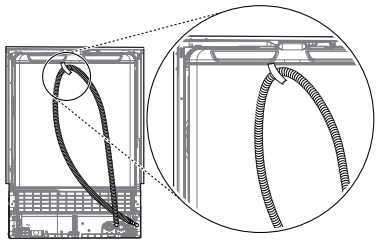
Preparing Dishwasher

⚠ WARNING

- Do not remove the green felt on the outer side of the inner tank. Removing it may result in poor insulation performance of the inner tank, higher energy consumption and increased noise.

Releasing Drain Hose

Remove the adhesive tape holding the drain hose to the back of the shipping brace.

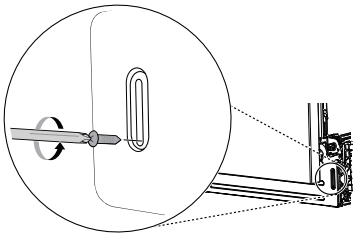


Removing Lower Cover

⚠ CAUTION

- If you lay the dishwasher on its back, do so carefully to avoid damaging the drain hose and the tub.

1 Remove the screws at either side which attach the lower cover to the dishwasher.



2 Remove the lower cover.

3 If there is insulation padding behind the lower cover, remove it.

4 Set the parts aside until the installation is complete.

Removing Packing Materials from the Interior

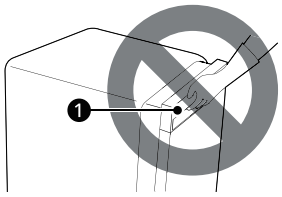
Remove all packing materials from the interior of the dishwasher before installing the appliance.

Sliding Dishwasher into Cabinet Opening

How to Slide Dishwasher

⚠ CAUTION

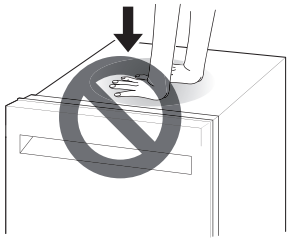
- Do not pull or lift the dishwasher using the handle ❶ . Doing so can damage the door and hinges.



- Do not push the door of the dishwasher with knees when sliding the dishwasher into position. Doing so can damage the front cover.

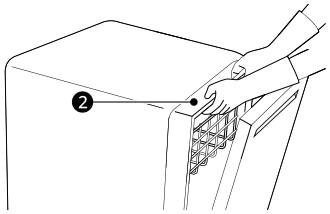


- Do not push the top of the dishwasher. Doing so can damage the interior of the dishwasher.



NOTE

- Open the door and grab the body frame and the top front opening ❷ of the tub to move or lift the dishwasher.



Connecting Water Supply Line and Power

⚠ CAUTION

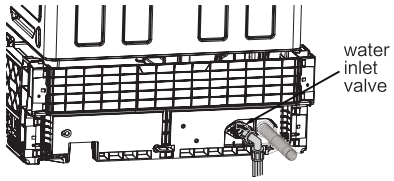
- Do not turn the dishwasher upside down to connect the water supply line or electrical supply. Doing so can damage the product.

Connecting Water Supply Line

1 Attach elbow joint to the water inlet valve with the open end facing towards the direction of the sink,either to the left or the right. Turn by hand and do not over tighten.

2 Attach hot water line to elbow.

3 Use two wrenches to tighten, using one to stabilize and avoid putting stress on the water inlet valve.



⚠ CAUTION

- Avoid cross-threading

  Cross-threading will cause leaks.
- Teflon tape

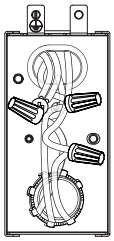
  Do not use Teflon tape; it could cause leaks and damage floors or cabinetry.

Connecting Power

The dishwasher should have a dedicated properly grounded branch circuit to connect the 3 wire setup which includes the ground wire.

If a 3-prong power supply is used, it should be in an accessible location adjacent to the dishwasher within 4 ft. (1.22 m) of the dishwasher side and not behind the dishwasher.



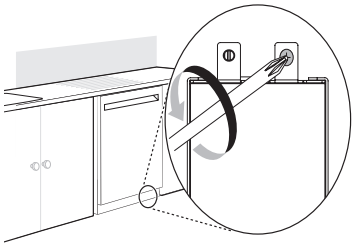


NOTE

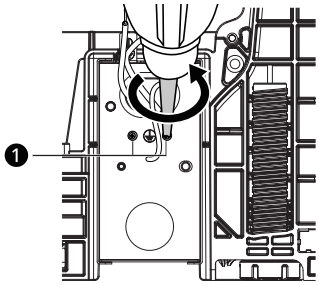
- The best location for the electrical conduit is on the right side of the back wall. Re-route the electrical cable before installation if the electrical conduit pipe is longer than 3” (76 mm) and is centered on the back wall.

1 Turn off electrical power to the unit at the circuit breaker.

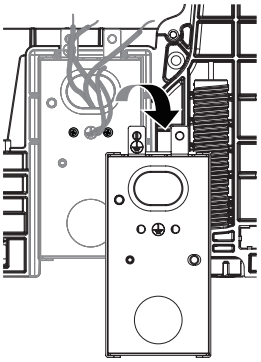
2 Use a Phillips screwdriver to remove the screw from the junction box cover and remove the cover.



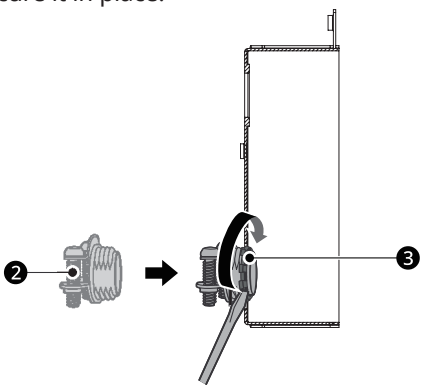
3 Use a Phillips screwdriver to remove 2 screws ❶.



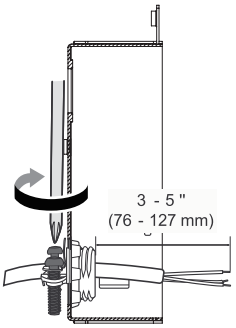
4 Remove the junction box from the appliance.



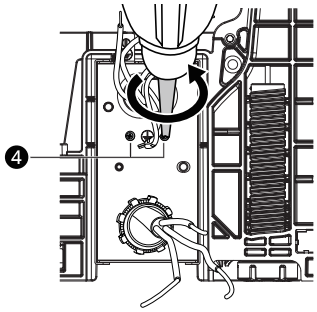
5 Insert a 7/8” strain relief ❷ through the hole in the junction box. Tighten the ring nut ❸ to secure it in place.



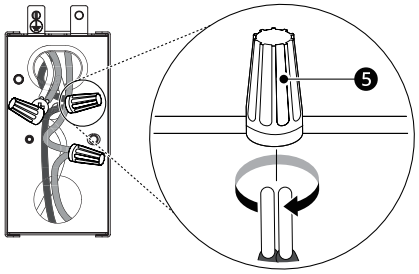
6 Insert the electrical cable through the hole in the strain relief. Tighten 2 screws to secure the cable.



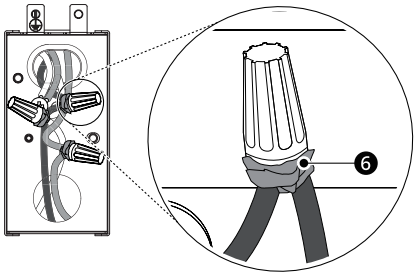
7 Pull the existing wires through the openings in the junction box. Tighten 2 screws ❹ to reassemble the junction box in the appliance.



8 Pair the white, black, and green or green/yellow wires to the matching colored wires from the dishwasher. Then twist on the wire nuts ❺ tightly to connect the corresponding wires.



9 Wrap electrical tape ❻ around each connection.



10 Fold the connected wires back into the junction box and screw on the junction box cover.

⚠ WARNING

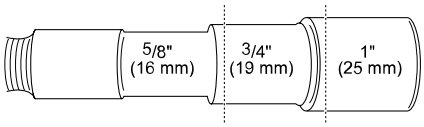
- Verify that the black wire is hot (120 V). If not, or if you are unsure of the power supply, have it checked by a licensed electrician.

- Do not leave stripped wire exposed. Trim stripped wire to fit completely inside wire nuts.
- After completing power cord installation, double-check that the ground wire is securely fastened without looseness.

Connecting the Drain Hose

If the end of the drain hose does not fit the drain line, use a heat and detergent resistant adapter (not supplied). These may be obtained from a local plumbing supply store.

- Cut the adapter to match the size of the drain connection as shown. Cutting just beyond the flare helps to keep the band clamp in place.

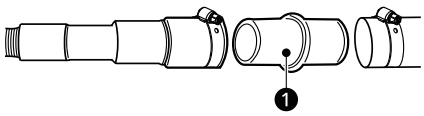


NOTE

- For drain hose installation, use the screw style hose clamp provided with this dishwasher in the silverware basket.
- If connecting the dishwasher's drain hose to the garbage disposal, be sure to follow your garbage disposal's manual for proper installation instructions.

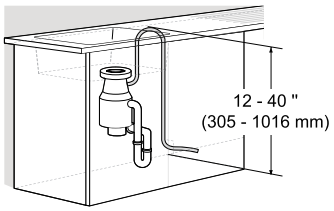
Drain Hose Requirements

- Follow local codes and ordinances.
- Do not exceed 12 ft. (3.65 m) distance to drain.
- Do not connect drain hoses from other appliances to the dishwasher's drain hose.
- If an extension drain hose is required, use a 3/4" inside diameter, 2 ft. – 3 ft. (0.6 m – 0.9 m) length hose and a coupler ❶ for connecting the two hose ends.



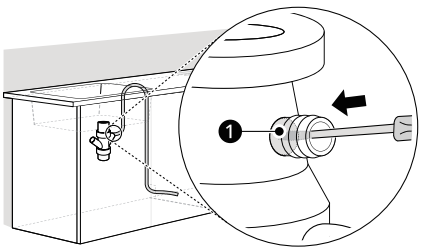
Height of the Drain Hose

The height of the drain hose end must be at least 12" (305 mm) and within 40" (1016 mm) from the base of the dishwasher to avoid water being siphoned from the tub.



Connecting to Disposal without Air Gap

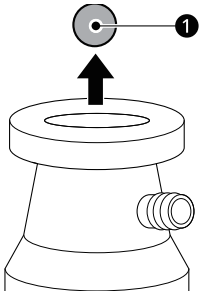
1 Remove the knockout plug on the disposal with a hammer and screwdriver.



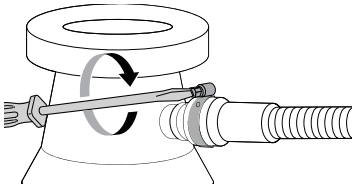
2 Remove the knockout plug ❶ from the disposal.

⚠ CAUTION

- If the knockout plug has not been removed, the dishwasher will not be able to drain properly.



3 Attach the drain hose to the disposal with the hose clamp. Move the hose clamp into position and tighten it with a flat-blade screwdriver.



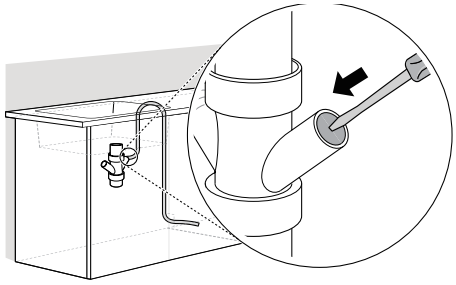
Connecting Waste Tee without Air Gap

The height of the drain hose end must be at least 12” (305 mm) and within 40” (1016 mm) from the base of the dishwasher to avoid water being siphoned from the tub.

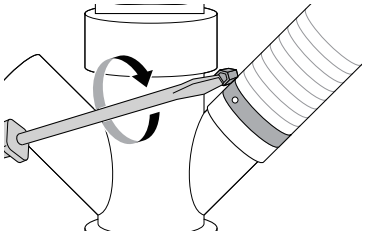
1 Remove the knockout plug with a hammer and screwdriver.

⚠ CAUTION

- If the knockout plug has not been removed, the dishwasher will not be able to drain properly.



2 Attach the drain hose to the waste tee with the hose clamp. Move the clamp into position and tighten it with a flat-blade screwdriver.

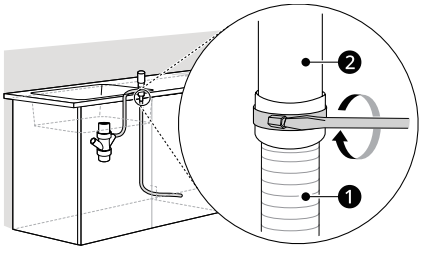


Connecting to Disposal or WasteTee with Air Gap

1 Remove the knockout plug with a hammer and screwdriver.

2 Connect the end of the drain hose ❶ to the air gap ❷ with the hose clamp. Move the clamp into position and tighten it with a flat-blade screwdriver.

- This avoids water being siphoned from the tub.



3 If it is not connected, attach the rubber hose connector to the disposal or waste tee with a hose clamp.

Leveling Dishwasher

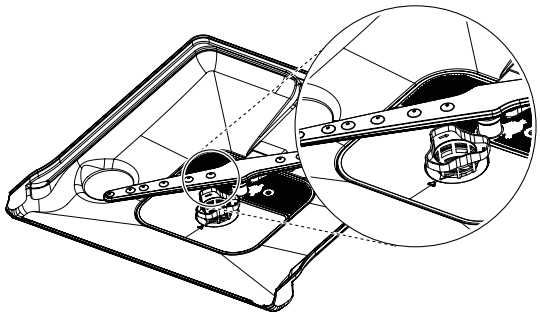
Check that the dishwasher is level and adjust the leveling feet if necessary.

⚠ CAUTION

- Failure to level the dishwasher may result in leakage, problems closing the door, or noise.
- Where the cabinet opening is narrower than recommended (see **Preparing Cabinet Opening**), the dishwasher must be carefully leveled and aligned so that the dishwasher is supported fully by the 3 leveling feet and is not hanging from the installation brackets. Failure to do so can result in leaks from the front of the dishwasher, AE errors, difficulty in closing the door, or failure to operate.

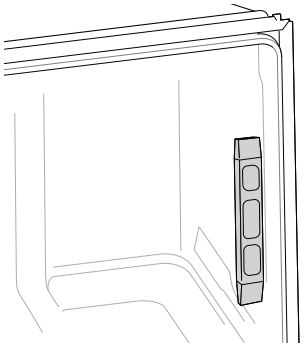
Checking Leveling

To check that the tub is level from front to back, remove the lower rack and pour 169 oz. (5 L) of water into the bottom of the tub. The water level should be near the center of both tub lower indentations at the front.

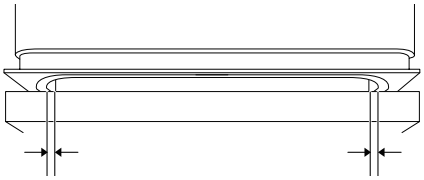


With the lower rack removed, place a level on the inside wall of the tub to check that the dishwasher is level from side to side.

- If you do not have a level, try using a smartphone level application instead.



- Make sure that the gap between the tub walls and the door liner is the same on either side.



Adjusting Leveling Feet

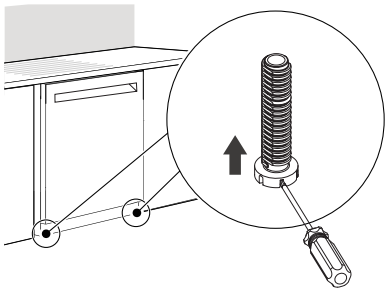
Adjust as needed until the dishwasher is completely leveled.

- Adjust the front and rear leveling feet until they are all in firm contact with the floor. Failure to level the dishwasher may prevent the door from closing properly and the dishwasher will not turn on.

Adjusting Front Leveling Feet

Use a flat-blade screwdriver to turn the front leveling feet and adjust the front of the tub.

- Turn the front leveling feet clockwise to raise the front of the tub and counterclockwise to lower it.

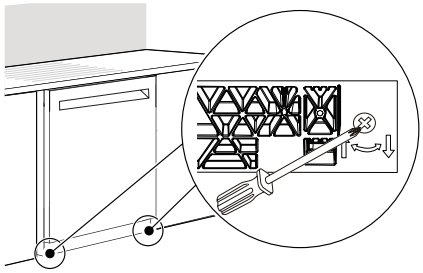


- The adjustments work identically for both front leveling feet.

Adjusting Rear Leveling Foot

Use a Phillips screwdriver to adjust the rear leveling foot and the rear of the tub using the center screw at the base of the appliance in the front.

- Turn the center screw clockwise to raise the rear of the tub and counterclockwise to lower it.



NOTE

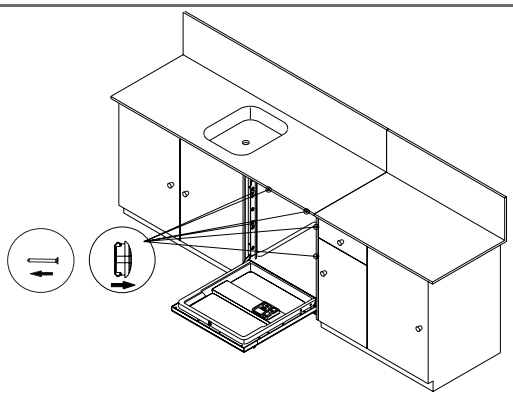
- To avoid damaging the screw, do not use an electric screwdriver.

Securing Dishwasher in Cabinet Opening

1 Secure the dishwasher to the cabinet using the four ST3.5 x35 screws supplied with the appliance. Install the screws through any two of the four front mounting holes, selecting the most appropriate holes based on the installation conditions.

⚠ CAUTION

- Ensure the dishwasher is level and all leveling feet are in firm contact with the floor before attaching the dishwasher to the countertop or cabinet. If the dishwasher is not leveled properly, the door may not close properly or water may leak.



2 Once secured, reinstall the decorative covers into the screw holes.

Final Installation Check

Testing the Dishwasher

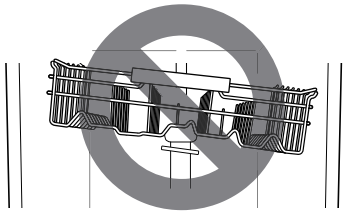
Check if the dishwasher is properly installed.

1 Turn on the house water supply.

2 Turn on the circuit breaker.

3 Make sure that the door opens and closes smoothly.

- If necessary, level the dishwasher again.
- If the door will not close, make sure the rack is level.



- Make sure that all packaging materials have been removed.

4 Power on the dishwasher and run any cycle to verify proper operation.

5 Check for leaks at the drain hose and water supply connection.

6 If a water leak is detected, open the door and then press and hold the **START** button for 3 seconds to cancel the wash cycle and automatically drain the water from the dishwasher. Tighten all water connections and run another cycle. Repeat until no leaks are detected.

Sound Insulation Sheet

If your model shipped with a sound insulation sheet, follow the instructions provided to install the sheet now. But wait to install the insulation pad and lower cover until after the final installation check.

7 Remove the protective film from the door, if present. Leaving the film on may cause discoloration or condensation on the door.

Installation Check Error Codes

Refer to the chart below before calling for service.

Error Code	Possible Cause and Solution
OE	**Drain hose is kinked or pinched.** • Feed the drain and water supply hoses through the hole under the sink. Then gradually slide the dishwasher into the cabinet while pulling on the hoses under the sink to take up any slack. This helps avoid kinking the hoses or trapping them beneath the dishwasher. **Drain hose is connected to the disposal without removing the knockout plug.** • Remove the knockout plug from the disposal. **Waste tee or disposal is clogged.** • Remove knockout plug on the waste tee or disposal.
iE	**Water supply line is kinked under dishwasher.** • Feed the drain and water supply hoses through the hole under the sink. Then gradually slide the dishwasher into the cabinet while pulling on the hoses under the sink to take up any slack. This helps avoid kinking the hoses or trapping them beneath the dishwasher. **House water supply is not turned on.** • Turn the water faucet on.