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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)

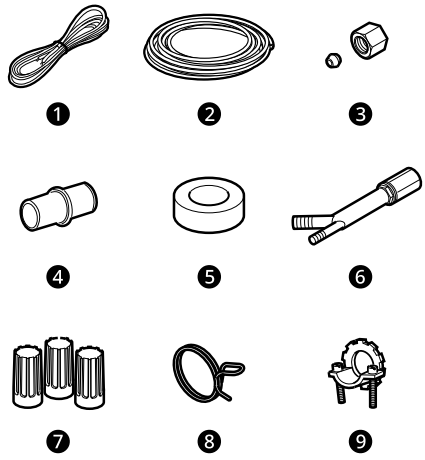
https://www.lg.com/ca_fr/soutien/aide-produit/CT20100059-20152463332979

⚠ 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 Electrical Cable
- 16 AWG, with 2 conductors and 1 ground

❷ Water Supply Tube
- Minimum 3/8″ O.D. copper tubing or stainless steel braided water supply line

❸ Fittings for Tube

❹ Coupler

❺ Electrical Tape

❻ Air Gap

❼ Wire Nuts for 16-Gauge Wiring

❽ Hose Clamp

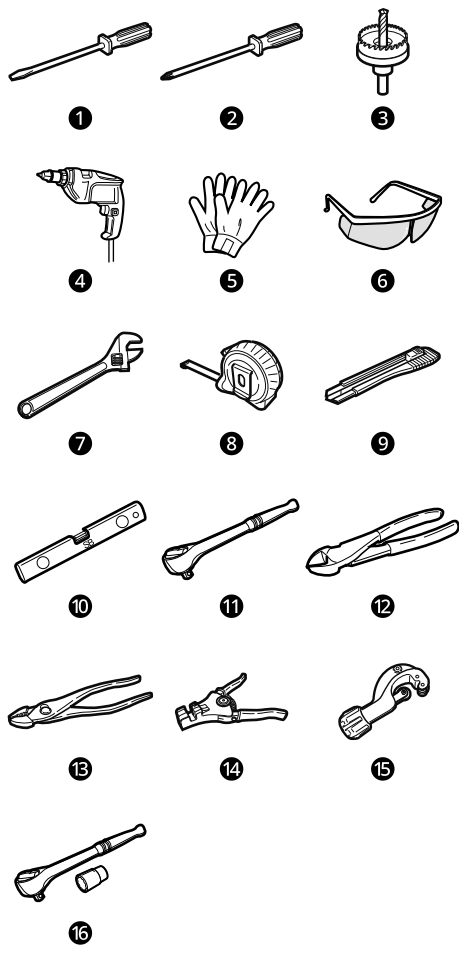
❾ 3/8″ UL Approved Strain Relief

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.

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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 Cutter

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

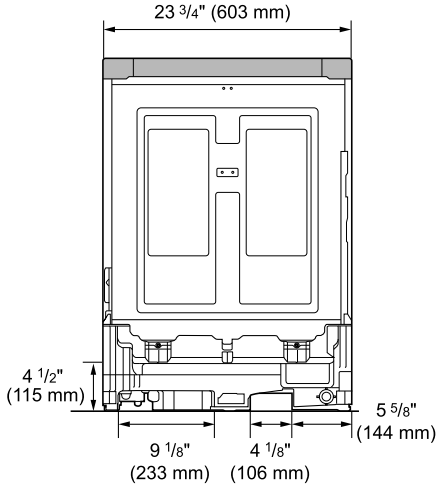
❼ Leveling Dishwasher

❽ Securing Dishwasher in Cabinet Opening

❾ Final Installation Check

Product Dimensions

Back View

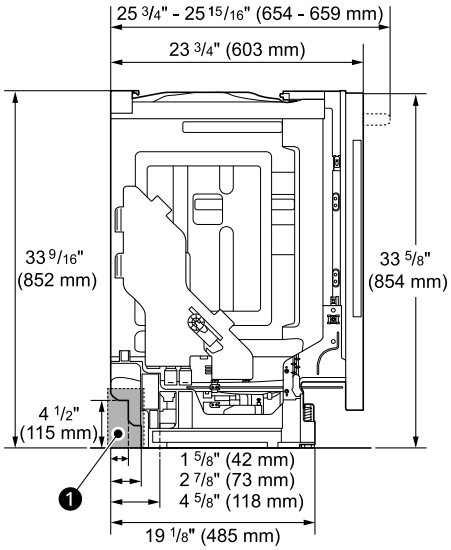


Side View

For easiest installation, see marked areas ❶ for water and electrical clearances in base of

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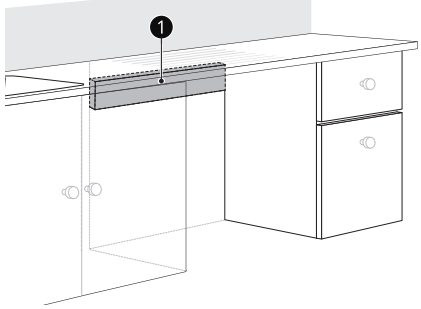
dishwasher. Water supply hose, drain hose and electric cable should be passed through this area.



Preparing Cabinet Opening

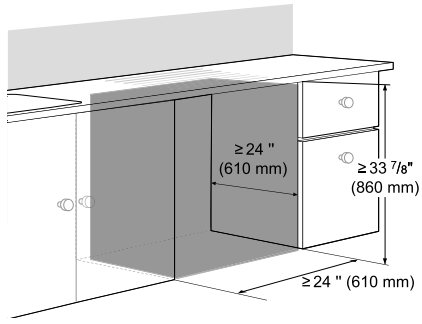
This dishwasher is designed to fit a standard dishwasher opening. An opening may be needed on both sides to route plumbing and electrical connections.

- 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.

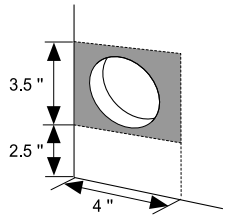


Choosing the Proper Location

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

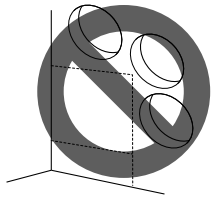


2 To allow for proper clearance of plumbing and electrical, use the template included with the literature to determine the clearance on the side of the cabinet where the cabinet meets the back wall. Using a 2 1/2” diameter hole saw, drill a hole in the target area as shown.



⚠ WARNING

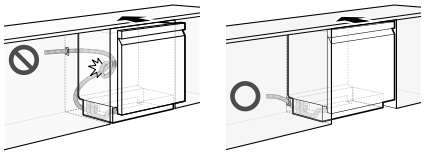
- The opening must be at least 2 1/2" (63.5 mm) in diameter to prevent damage to the cables and hoses during installation.
- Installation damage is not covered by the warranty, and leaks caused by improper installation may result in property damage.
- Do not use existing holes unless they are in the 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.



ENGLISH

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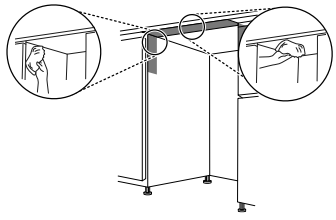
⚠ WARNING



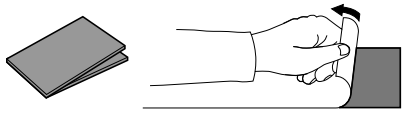
Installing Moisture Barrier Tape

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

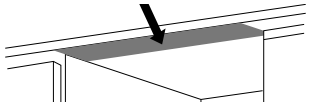
1 Clean and dry the area on the underside of the countertop and the sides of the cabinet opening where the tape will be applied.



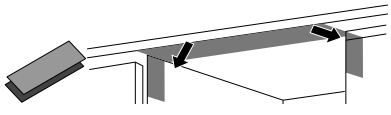
2 Remove the protective film from the tape.



3 Install the tape on the underside of the countertop.



4 Install the shorter pieces of tape on the sides of the cabinet opening at the top.



NOTE

- Moisture barrier tape is included in the manual assembly bag.
- 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 20 psi and 80 psi (140–550 kPa). If the water supply

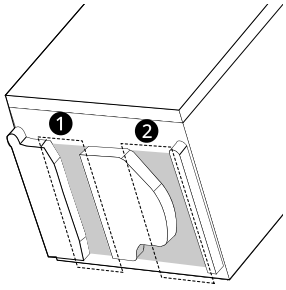
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pressure exceeds 80 psi, a pressure reducing valve must be installed. Otherwise premature failure of the inlet valve may occur.

Routing Water Supply Line and Electrical Wiring

There are 2 channels in the bottom of the dishwasher for routing the water and electrical connections.

- As shown in the bottom view below, channel ❶ is for the water supply line, and channel ❷ is for the electrical cable.

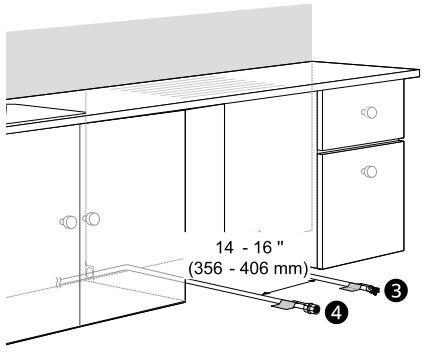


1 Turn off the house water supply and the circuit breaker or dedicated power before connecting the dishwasher.

2 Run the water supply line along the floor 6 1/2" – 7 3/4" (165 mm – 197 mm) from the left side of the opening and tape it in place in front of the opening.

3 Run the electrical cable ❸ along the floor 14" – 16" (356 mm – 406 mm) from the water supply line ❹ and tape it in place.

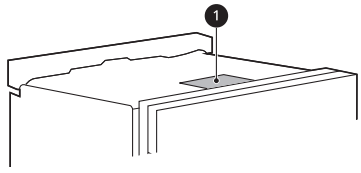
- The electrical outlet must be within 4 ft. (1.22 m) of either side of the dishwasher.
- The best location for the electrical conduit is on the right side of the back wall. Re-route the electrical cable before installation if the electrical conduit pipe is longer than 3" (76 mm) and is centered on the back wall.



Preparing Dishwasher

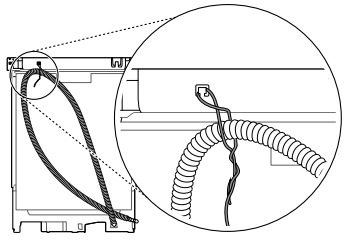
⚠ WARNING

- Do not remove safety cover ❶. Removal can result in fire, electric shock or death.



Releasing Drain Hose

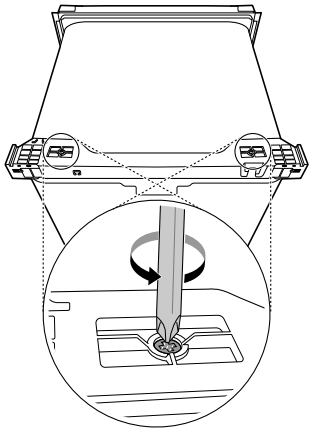
Remove the twist tie holding the drain hose to the back of the shipping brace.



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Removable Shipping Brace

The rear shipping brace can be removed if additional clearance is needed when installing the dishwasher under a low countertop.

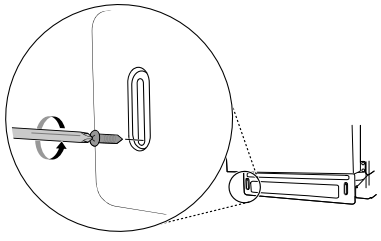


Removing Lower Cover

⚠ 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.



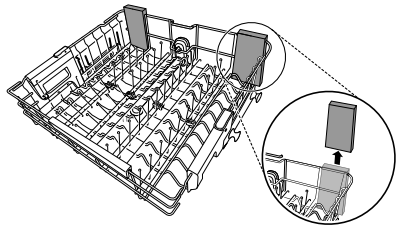
2 Remove the lower cover.

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.



Attaching Installation Brackets

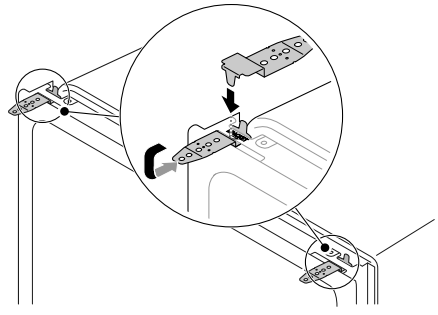
There are 2 options for securing the dishwasher. For countertops made of wood or other materials that won't be damaged by drilling, use method 1.

For countertops made of granite, marble, or other materials that could be damaged by drilling, use method 2.

For a flush installation, choose the appropriate method considering your installation conditions. (A flush installation may not be possible because of the cabinet size or installation circumstances.)

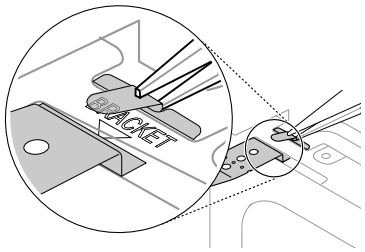
Method 1: Securing to Countertop

1 Insert the tabbed end of the installation brackets into the slots in the upper frame. Rotate the brackets until the tabbed ends are facing up.



2 Bend the tabs on the brackets to secure them to the frame using a pair of needle nose pliers.

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Method 2: Securing to Cabinets

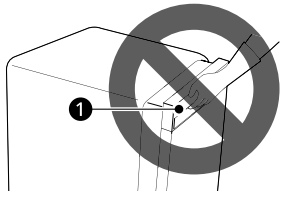
For countertops made of granite, marble, or other materials that could be damaged by drilling, secure the dishwasher to the cabinets. If you have framed cabinets, use screws that are long enough to secure the dishwasher to the cabinets or attach wood spacers (not included) to the cabinets on either side of the dishwasher. See **Securing Dishwasher in Cabinet Opening** for more details.

Sliding Dishwasher into Cabinet Opening

How to Slide Dishwasher

⚠ CAUTION

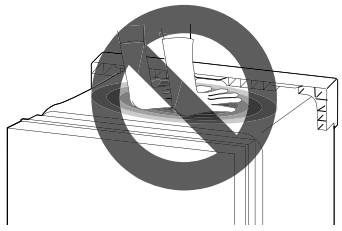
- Do not pull or lift the dishwasher using the handle ❶. Doing so can damage the door and hinges.



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

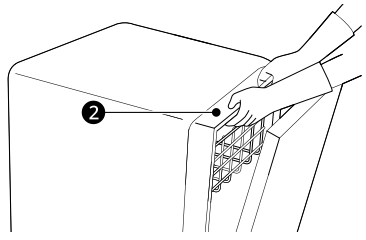


- Do not push the top of the dishwasher. Doing so can damage the interior of the dishwasher.

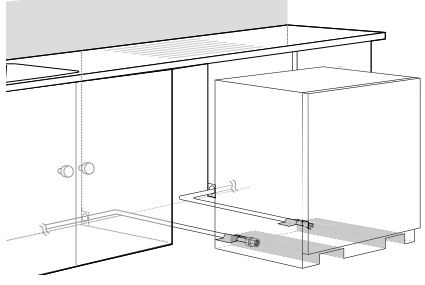


NOTE

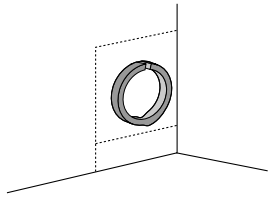
- Open the door and grab the body frame and the top front opening ❷ of the tub to move or lift the dishwasher.



1 Align the dishwasher with the opening. Make sure the water supply line and electrical cable are in the correct positions to slide into their channels properly.

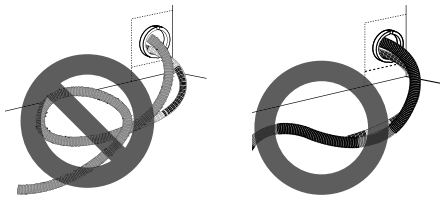


2 Smooth out or pad the edges of the hole drilled for the water supply to avoid damaging the drain hose.



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3 Make sure the drain hose is straight before feeding the end of it through the hole for the water supply. As you slide the dishwasher into the opening, you will want to slowly pull on the drain hose from inside the cabinet to take up some slack. Be careful not to kink, pinch, crush or stress the drain hose during installation to avoid leaking and water damage.

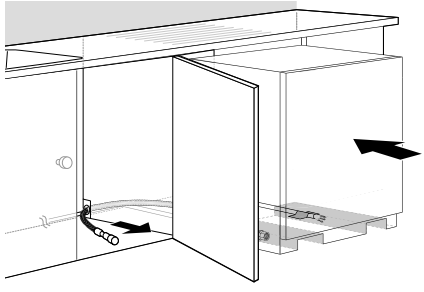


4 Gradually slide the dishwasher into the opening, making sure that the water supply line and electrical cable are passing freely through the channels and do not get caught under the dishwasher.

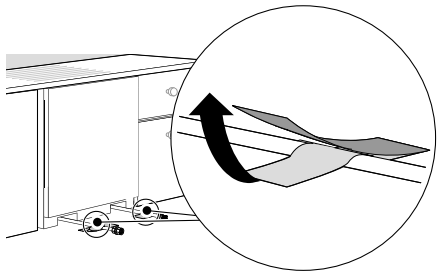
⚠ CAUTION

- To avoid malfunctions or leakage, it is important that the drain hose not get kinked, pinched, stressed or crushed behind or under the dishwasher or inside the neighboring cabinet.
- Damage resulting from improper installation is not covered under the warranty.
- Slide the dishwasher into place so the door is flush with cabinet doors or drawers. Make sure the rubber trim is not folded over behind the cabinet opening.

  - As you slide the dishwasher into the opening, stop periodically (or have an assistant help) to take up the slack by pulling the drain hose farther into the cabinet.



5 Remove the tape from the water supply line and the electrical cable.



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.

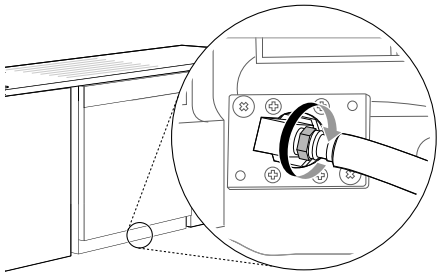
Connecting Water Supply Line

1 With the home water supply turned off, connect the water supply line to the inlet valve on the left front of the dishwasher.

⚠ CAUTION

- Tape or compound should not be used on dishwasher inlet valve.

2 Tighten the compression nut.



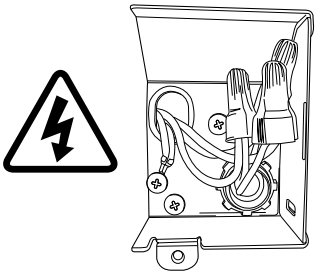
3 Slide the water supply line back through the channel, pulling gently from inside the cabinet to make sure the line is not kinked, pinched, stressed or crushed.

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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.

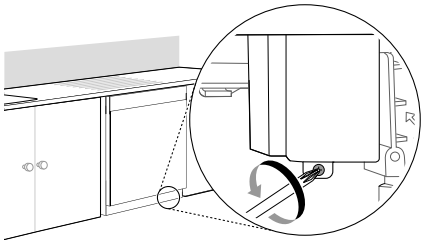


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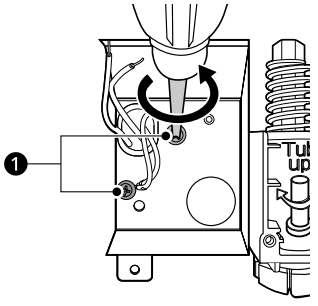
- The best location for the electrical conduit is on the right side of the back wall. Re-route the electrical cable before installation if the electrical conduit pipe is longer than 3" (76 mm) and is centered on the back wall.

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

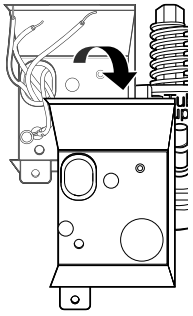
2 Use a Phillips screwdriver to remove the screw from the junction box cover and remove the cover.



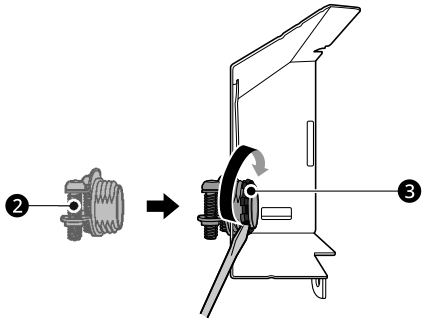
3 Use a Phillips screwdriver to remove 2 screws ❶.



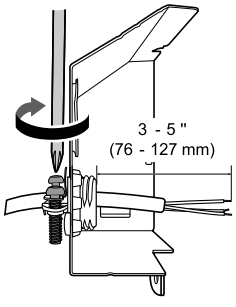
4 Remove the junction box from the appliance.



5 Insert a 3/8" strain relief ❷ through the hole in the junction box. Tighten the ring nut ❸ to secure it in place.

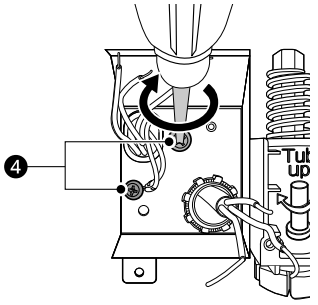


6 Insert the electrical cable through the hole in the strain relief. Tighten 2 screws to secure the cable.

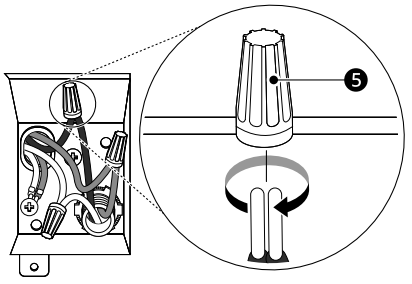


7 Pull the existing wires through the openings in the junction box. Tighten 2 screws ❹ to reassemble the junction box in the appliance.

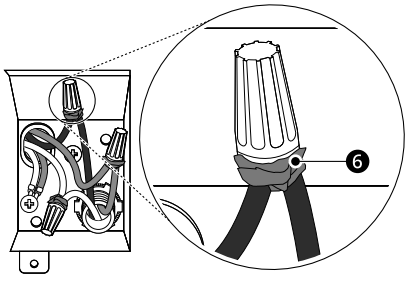
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8 Pair the white, black, and green wires to the matching colored wires from the dishwasher. Then twist on the provided wire nuts ❺ tightly to connect the corresponding wires.



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.

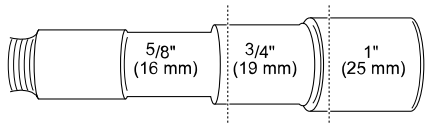
⚠ CAUTION

- Do not leave stripped wire exposed. Trim stripped wire to fit completely inside wire nuts.

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.

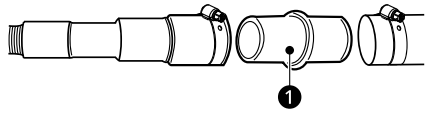


NOTE

- 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.

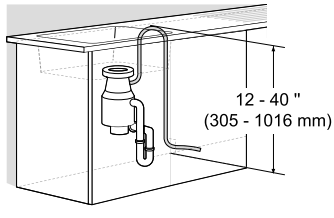
Drain Hose Requirements

- 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 5/8" or 7/8" 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

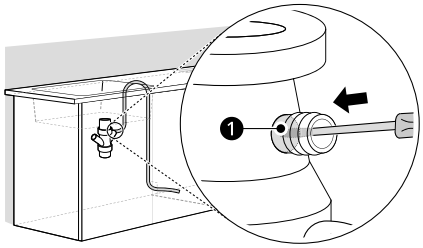
The height of the drain hose end must be at least 12" (305 mm) and within 40" (1016 mm) from the base of the dishwasher to avoid water being siphoned from the tub.



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Connecting to Disposal without Air Gap

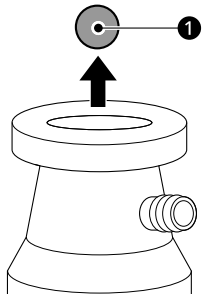
1 Remove the knockout plug on the disposal with a hammer and screwdriver.



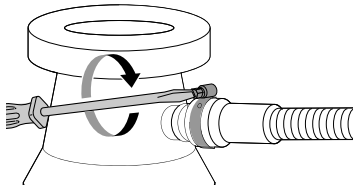
2 Remove the knockout plug ❶ from the disposal.

⚠ 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 provided. Move the hose clamp into position and tighten it with a flat-blade screwdriver.



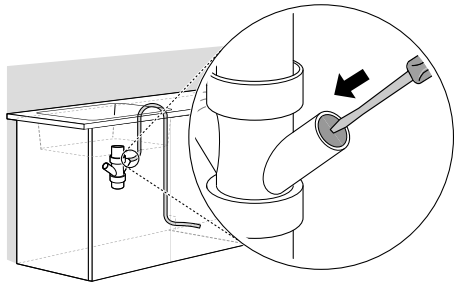
Connecting Waste Tee without Air Gap

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.

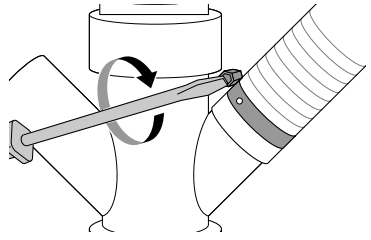
1 Remove the knockout plug with a hammer and screwdriver.

⚠ 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 provided. Move the clamp into position and tighten it with a flat-blade screwdriver.

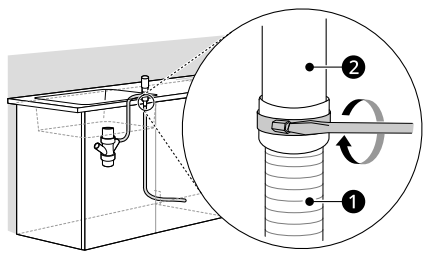


Connecting to Disposal or Waste Tee with Air Gap

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 provided. Move the clamp into position and tighten it with a flat-blade screwdriver.

- This avoids water being siphoned from the tub.



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

Leveling Dishwasher

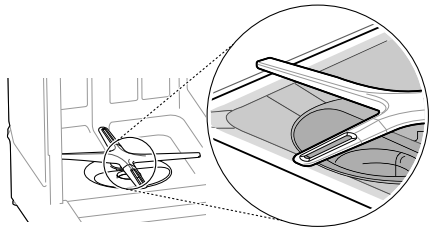
Check that the dishwasher is level and adjust the leveling feet if necessary.

⚠ 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.

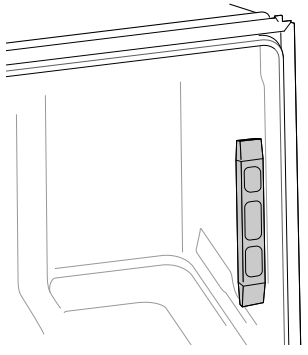
Checking Leveling

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.

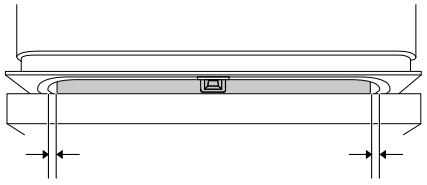


With the lower rack removed, place a level on the inside wall of the tub to check that the dishwasher is level from side to side.

- 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

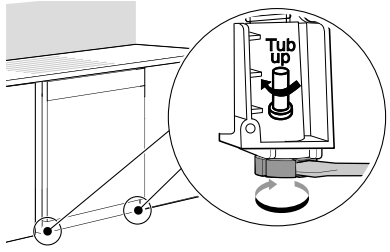
Adjust as needed until the dishwasher is completely leveled.

- 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.

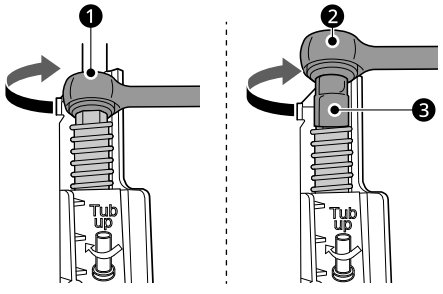
Adjusting Front Leveling Feet

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.
- When a flat-blade screwdriver is unavailable, use a 1/4" square drive wrench ❶ or 3/8" square drive wrench ❷ with 1/2" socket ❸ to turn the front leveling feet and adjust the front of the tub.

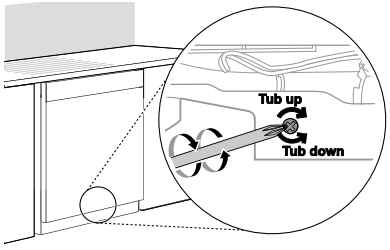


Adjusting Rear Leveling Foot

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.

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- 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

There are 2 options for securing the dishwasher. For countertops made of wood or other materials that won't be damaged by drilling, use method 1. For countertops made of granite, marble, or other materials that could be damaged by drilling, use method 2.

⚠ CAUTION

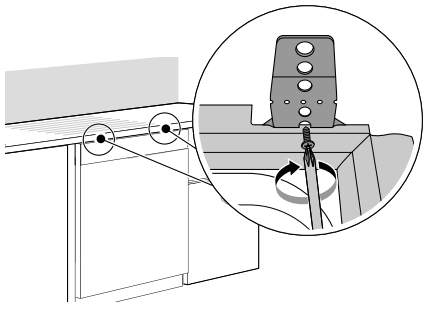
- Ensure the dishwasher is level and all leveling feet are in firm contact with the floor before attaching the dishwasher to the countertop or cabinet. If the dishwasher is not leveled properly, the door may not close properly or water may leak.

NOTE

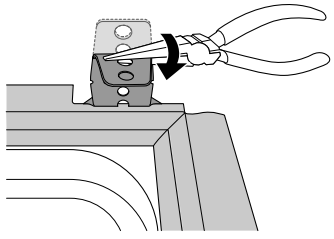
- Installation brackets and screws can be found in the silverware basket.
- Use a magnetic screwdriver.
- Cover the filter hole with towels to prevent screws from falling down into the pump.

Method 1: Securing to Countertop

1 Use the shorter 12 mm wood screws provided to secure the brackets at the top of the dishwasher to the underside of the wood countertop. Drive the screw through the appropriate hole in the installation bracket.

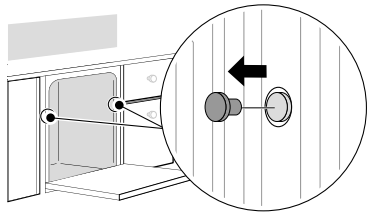


2 Use a nipper or tin snips to carefully trim off the excess part of the bracket.



Method 2: Securing to Cabinets

1 Remove the 2 plastic caps from the mounting bracket access holes.

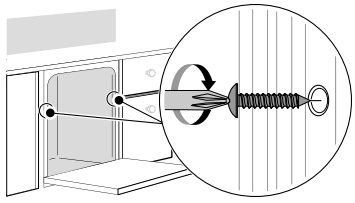


2 Drive a 20 mm wood screw (longer screw) through the mounting bracket and into the cabinet side.

⚠ CAUTION

- If the provided 20 mm screws are not long enough to secure the dishwasher to the cabinet side, use screws that are long enough to secure to the cabinets.
- If you have framed cabinets, use screws that are long enough to secure the dishwasher to the cabinets or attach wood spacers (not included) to the cabinets on either side of the dishwasher.

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3 Reinstall the plastic caps.

Final Installation Check

Testing the Dishwasher

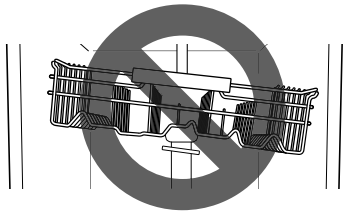
Check if the dishwasher is properly installed.

1 Turn on the circuit breaker.

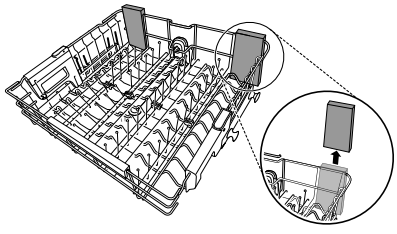
2 Turn on the house water supply.

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.

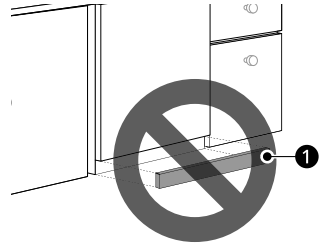
6 If a water leak is detected, open the door and then press and hold the **START** button for 3 seconds to cancel the wash cycle and automatically drain the water from the dishwasher. Tighten all water connections and run another cycle. Repeat until no leaks are detected.

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 Replace the lower cover.

⚠ CAUTION

- Only install the lower cover provided with the dishwasher. Do not install cabinet baseboard ❶ as it may cause noise and leakage.



8 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.

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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.