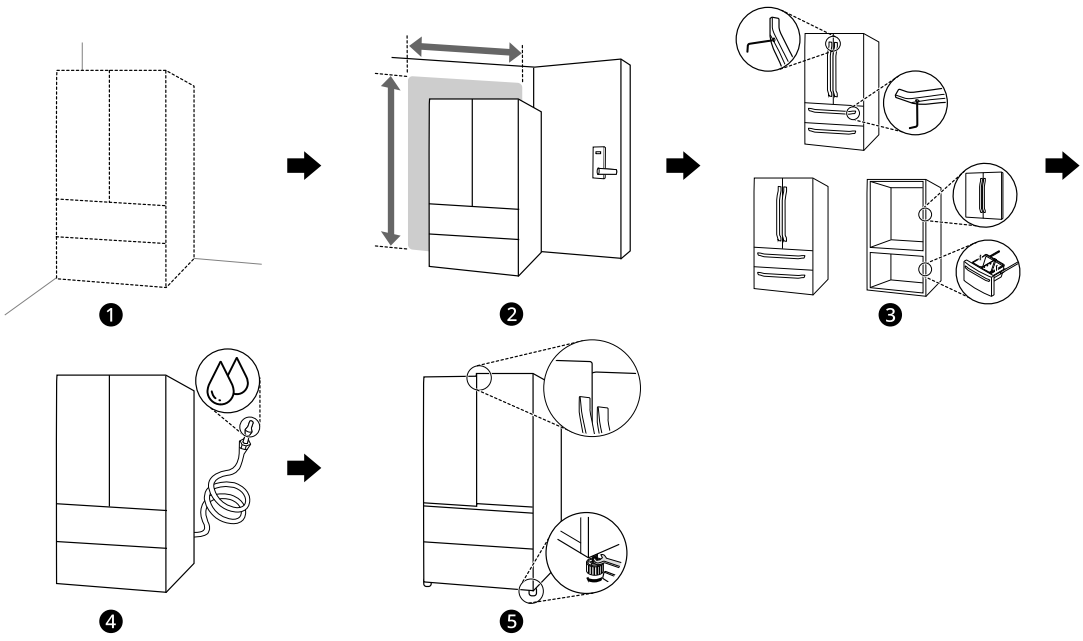
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INSTALLATION

Before Installing

Installation Overview

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



❶ Unpacking the Refrigerator

❷ Choosing the Proper Location

❸ Disassembling/Assembling

❹ Connecting the Water Line

❺ Leveling and Door Alignment

⚠ WARNING

- Connect to potable water supply only.

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Unpacking the Refrigerator

⚠ WARNING

- Use two or more people to move and install the refrigerator. Failure to do so can result in back injury or other injury.
- The refrigerator is heavy. Protect the floor when moving the refrigerator for cleaning or service. Always pull the refrigerator straight out when moving it. Do not wiggle or walk the refrigerator when trying to move it, as floor damage could occur.
- Keep flammable materials and vapors, such as gasoline, away from the refrigerator. Failure to do so can result in fire, explosion, or death.

NOTE

- Remove tape and any temporary labels from your refrigerator before using. Do not remove any warning labels, the model and serial number label, or the Tech Sheet that is located under the front of the refrigerator.
- To remove any remaining tape or glue, rub the area briskly with your thumb. Tape or glue residue can also be easily removed by rubbing a small amount of liquid dish soap over the adhesive with your fingers. Wipe with warm water and dry.
- Do not use sharp instruments, rubbing alcohol, flammable fluids, or abrasive cleaners to remove tape or glue. These products can damage the surface of your refrigerator.
- Reinstall or adjust shelves as needed. Refrigerator shelves are installed in the shipping position. Reinstall shelves according to your individual storage needs.

Choosing the Proper Location

Water

The refrigerator must be located where a water supply can be connected for the automatic icemaker.

NOTE

- The water pressure must be 20 - 120 psi (138 - 827 kPa). If the refrigerator is installed in an area with low water pressure (below 20 psi or 138 kPa), you can install a booster pump to compensate for the low pressure.

Electricity

Use an individual, grounded outlet:115 Volts, 60 Hz, AC, 15 amps minimum.

⚠ WARNING

- Do not overload house wiring and cause a fire hazard by plugging in multiple appliances in the same outlet with the refrigerator.
- To reduce the risk of electric shock, do not install the refrigerator in a wet or damp area.

Flooring

To avoid noise and vibration, the unit must be installed and leveled on a solidly constructed floor. If required, adjust the leveling legs to compensate for the unevenness of the floor.

NOTE

- Installing on carpeting, soft tile surfaces, a platform or weakly supported structure is not recommended.

Ambient Temperature

Install this appliance in an area where the temperature is between 55 °F (13 °C) and 110 °F (43 °C).

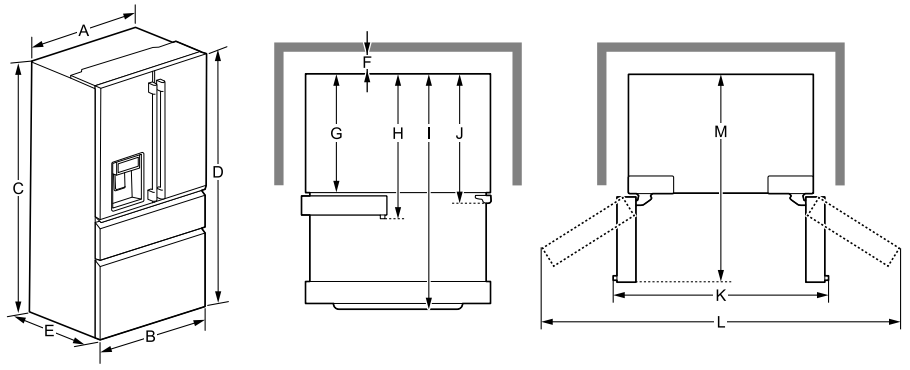
If the temperature around the appliance is too low or high, cooling ability may be adversely affected.

The internal temperatures could be affected by the location of the appliance, the ambient temperature, the frequency of door opening and other factors.

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Dimensions and Clearances

- Check the dimensions of the appliance and the installation path to ensure there is sufficient room to move the refrigerator through doors or narrow openings.
- If an opening is too narrow to fit the refrigerator through, remove the refrigerator doors. See Removing/ Assembling the Doors and Drawers in this manual.
- The installation location chosen for the refrigerator should allow space behind the unit for connections and airflow and space in front to open the doors and drawers.
- Too small of a distance from adjacent items may result in lowered freezing capability and increased electricity consumption charges. Allow at least 24 inches (610 mm) in front of the refrigerator to open the doors, and at least 2 inches (50.8 mm) between the back of the refrigerator and the wall.



-	Dimension/Clearance	UM22WZH98* / UM23BZH98*
A	Width of Back Case	35 7/8" (911 mm)
B	Width of Front Door	35 7/8" (911 mm)
C	Height to Top of Case	69 9/16" (1767 mm)
D	Height to Top of Hinge	70 3/8" (1787 mm)
E	Depth without Handle	27 3/8" (696 mm)
F	Back Clearance	2" (50 mm)
G	Depth without Door	24 13/16" (630 mm)
H	Depth with Handle	29 3/4" (755.8 mm)
I	Depth (Total with Freezer Drawer Open)	42 7/8" (1088 mm)
J	Depth without Door (Including Hinge)	26 11/16" (678 mm)
K	Width with Doors Open 90° (Including Handles)	39 3/4" (1010 mm)
L	Width with Doors Fully Open	45 1/4" (1150 mm)
M	Depth (Total with Door Open 90°)	43 5/8" (1107 mm)

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Removing/Assembling Handles

These instructions are for models which ship with the handles assembled. For models shipped with the handles disassembled, follow the instructions included in the handle package.

- Tools Needed
  - Units shipped with disassembled handles: 3/32" and 1/4" Allen wrenches only
  - Units shipped with assembled handles: 3/32", 1/8" and 1/4" Allen wrenches

When moving the refrigerator through a narrow opening, removing the doors is preferred. If you must remove the handles, be very careful not to scratch the doors.

The appearance of the handles may vary from what is shown.

⚠ CAUTION

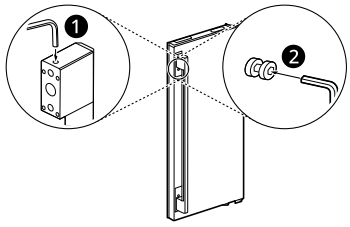
- When assembling or disassembling the refrigerator handles, grasp the handle firmly to avoid dropping it.
- Do not swing the handle into nearby people or animals.
- Make sure that the set screws are in place and the handle footprints at the ends of the handles are aligned correctly over the mounting fasteners on the doors. The set screws should be loose enough to allow the handle footprints to slide down into place over the mounting fasteners on the door.
- Make sure that there is not a gap between the door and handle after assembling the handle.

Removing Refrigerator Handles

1 Loosen the set screws ❶ with a 3/32 in. Allen wrench and remove the handle.

2 If needed, loosen the mounting fasteners ❷ that connect the refrigerator door and handle using a 1/4 in. Allen wrench, and remove the mounting fasteners.

- Some mounting bolts require a Phillips screwdriver instead of a 1/4 in. Allen wrench.

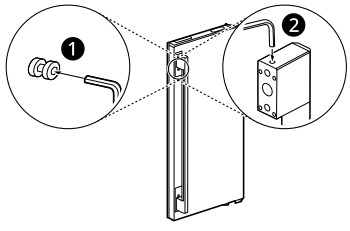


Assembling Refrigerator Handles

1 If needed, reassemble the mounting fasteners ❶ on the door with a 1/4 in. Allen wrench.

- Some mounting bolts require a Phillips screwdriver instead of a 1/4 in. Allen wrench.
- The mounting bolts are included in the handle package.

2 Place the handle on the door by fitting the handle footprints over the mounting fasteners and tightening the set screws ❷ with a 3/32 in. Allen wrench.



Removing/Assembling Doors and Drawers

If the entrance door is too narrow for the refrigerator to pass through, remove the refrigerator doors and move the refrigerator sideways through the doorway.

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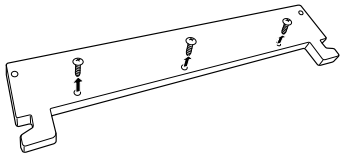
⚠ WARNING

- Use two or more people to remove and install the refrigerator doors and freezer drawers.
- Disconnect the electrical supply to the refrigerator before installing.
- Do not put hands, feet or other objects into the air vents or bottom of the refrigerator.
- Be careful when handling the hinge and hinge lever.
- Remove food and bins before detaching the doors and drawers.
- Do not hold the handle when removing or replacing the doors and drawers as the handle may come off.

- Tools Needed
  - Phillips screwdriver
  - Flat-head screwdriver

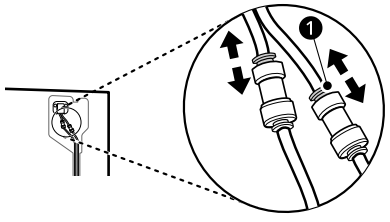
Removing the Hinge Cover

Remove the screws from the hinge cover at the top of the refrigerator. Lift the hook (not visible), located at the bottom of the front side of the cover with a flat-head screwdriver.



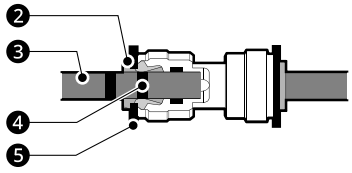
Removing the Left Refrigerator Door

1 The water supply is connected to the upper right part of the rear surface of the refrigerator. Remove the clip in the joint area. Hold the water supply connection and gently push the collet ❶ to detach the water supply line as shown.



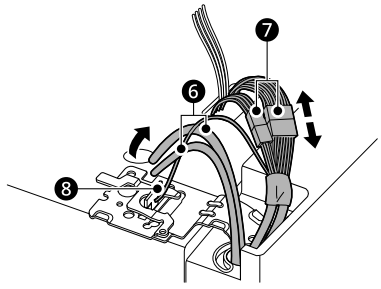
NOTE

- Disassembling/Assembling the Water Lines



❷ Collet ❸ Tube ❹ Insert line ❺ Clip

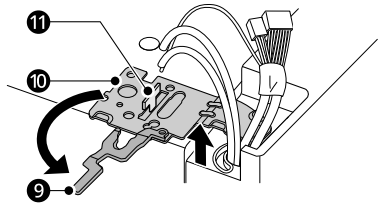
2 Pull out the water supply lines ❻. Disconnect all the wire harnesses ❼ . Unscrew the ground wire ❽.



3 Rotate the hinge lever ❾ counterclockwise. Lift the top hinge ❿ free of the hinge lever latch ⓫.

⚠ CAUTION

- When lifting the hinge free of the latch, be careful that the door does not fall forward.

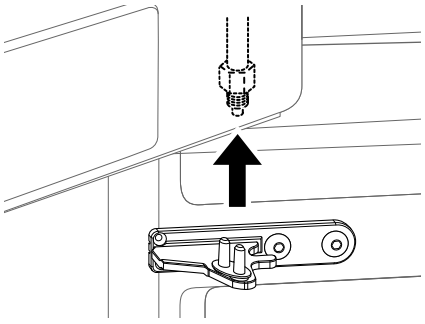


4 Lift the door from the middle hinge pin and remove the door.

⚠ CAUTION

- Place the door, inside facing up, on a nonscratching surface.

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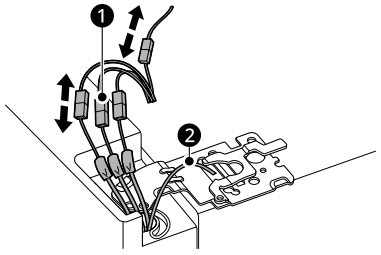


Removing the Right Refrigerator Door

1 Detach all the wire harnesses ❶. Unscrew the ground wire ❷.

NOTE

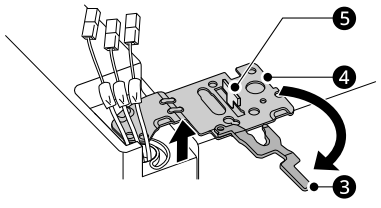
- The number of wire harnesses may vary depending on the model.
- Ground wire is only present on some models.



2 Rotate the hinge lever ❸ clockwise. Lift the top hinge ❹ free of the hinge lever latch ❺.

⚠ CAUTION

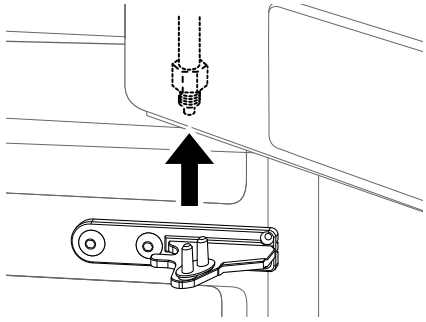
- When lifting the hinge free of the latch, be careful that the door does not fall forward.



3 Lift the door from the middle hinge pin and remove the door.

⚠ CAUTION

- Place the door, inside facing up, on a nonscratching surface.



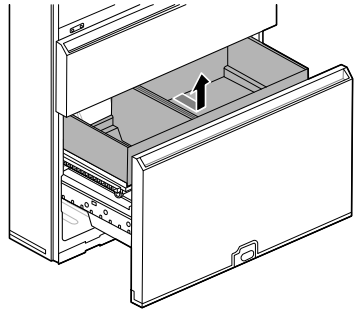
Removing the Freezer Drawer

⚠ WARNING

- Use two or more people to remove and install the refrigerator doors and freezer drawer.
- Be careful of sharp hinges on both sides of the drawer.
- When you lay the drawer down, be careful not to damage the floor.
- Do not sit or stand on the freezer drawer.
- To prevent accidents, keep children and pets away from the drawer. Do not leave the drawer open. If the Durabase® storage bin is removed from the freezer drawer, there is sufficient space for a small child or pet to crawl inside.

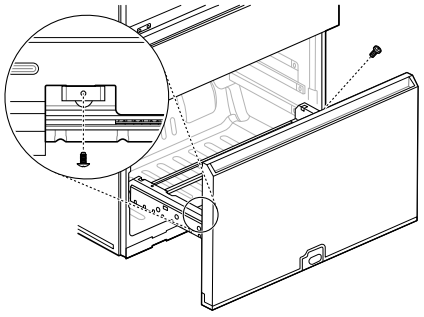
1 Pull the drawer open to full extension.

2 Lift the front of the drawer up, then pull it straight out.

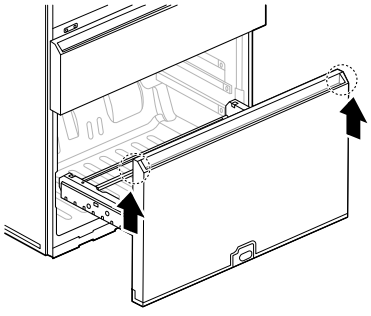


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3 Remove the Durabase basket from the rails. Remove the screws from the rails at both ends.



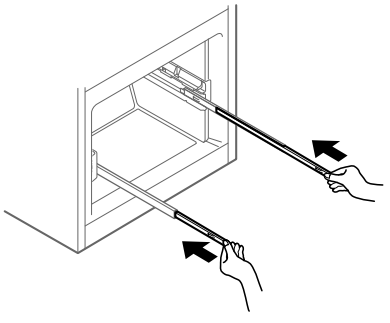
4 Grip both sides of the drawer and pull it up to remove it from the rails.



⚠ CAUTION

- Do not hold the handle when removing or replacing the drawer. The handle may come off, causing personal injury.

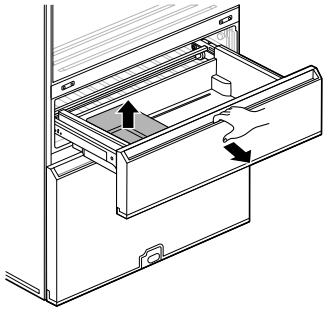
5 Hold both rails and push them in simultaneously.



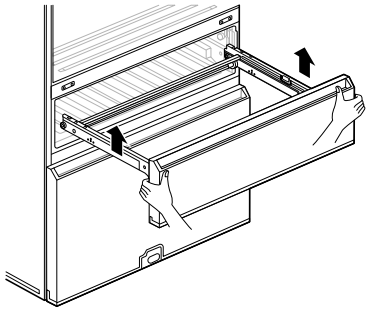
Removing the Full-Convert Drawer

This feature is only available on some models.

1 Pull the drawer open to full extension. Remove the basket from the rails.



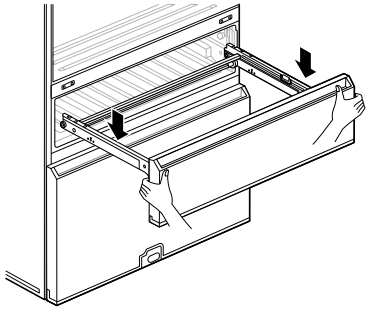
2 Hold both sides of the door and remove it from the rails.



Assembling the Full-Convert Drawer

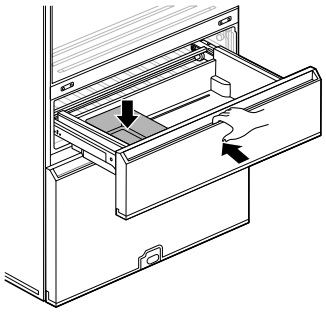
This feature is only available on some models.

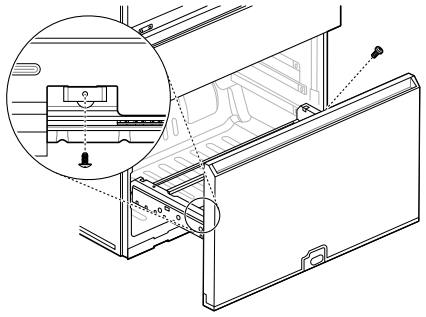
1 Grasp the door on each side and lower it into place on the rails.



2 Pull the drawer open to full extension. Lower the basket onto the rails.

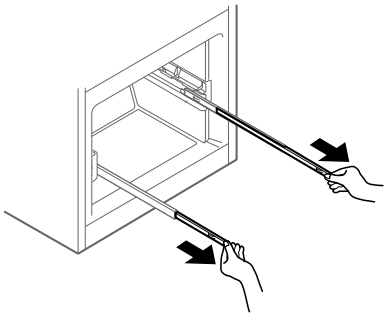
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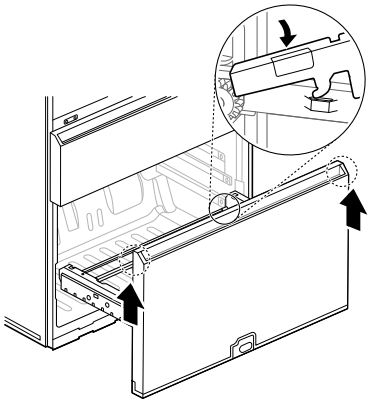


Assembling the Freezer Drawer

1 Pull out both rails simultaneously, until they are fully extended.

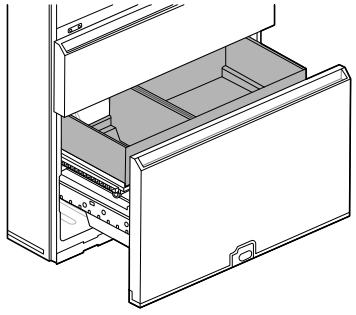


2 Grasp the drawer on each side and hook the drawer supports into the rail tabs located on both sides.



3 Lower the door into its final position and insert the screws in the rails on both sides.

4 Insert the drawer into the frame, and push the drawer back until it clicks into place.

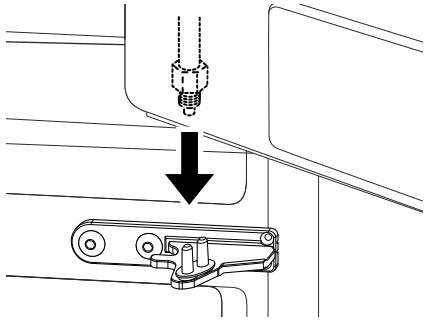


Assembling the Right Refrigerator Door

⚠ CAUTION

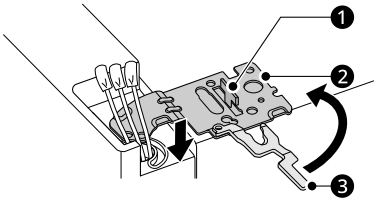
- Install the right-side door first.

1 Make sure that the plastic sleeve is inserted in the bottom of the door. Lower the door onto the middle hinge pin as shown in the figure.

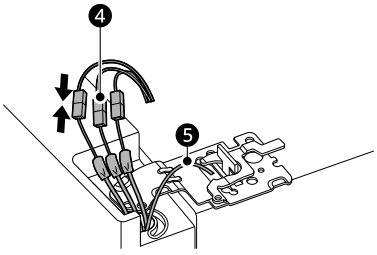


2 Fit the hinge ❶ over the hinge lever latch ❷ and slot it into place. Rotate the lever ❸ counterclockwise to secure the hinge.

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3 Connect all the wire harnesses ❹. Screw in the ground wire ❺.



NOTE

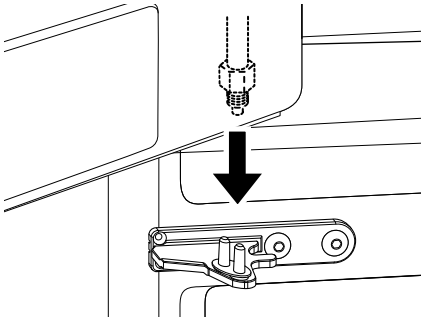
- The number of wire harnesses may vary depending on the model.
- Ground wire is only present on some models.

Assembling the Left Refrigerator Door

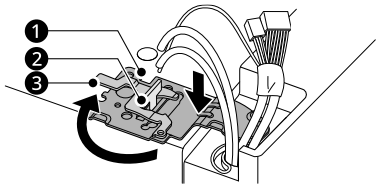
⚠ CAUTION

- Install the left refrigerator door after the right door is installed.

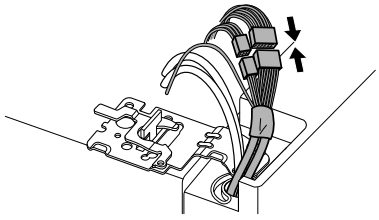
1 Make sure that the plastic sleeve is inserted in the bottom of the door. Install the refrigerator door onto the middle hinge.



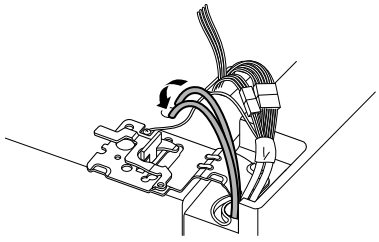
2 Fit the hinge ❶ over the hinge lever latch ❷ and slot it into place. Rotate the lever ❸ clockwise and fasten the hinge.



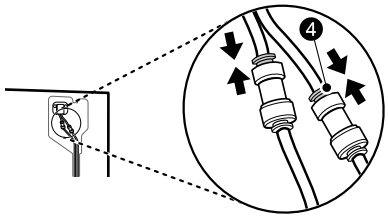
3 Connect all the wire harnesses and the ground wire.



4 Push the water supply lines into the hole on the top case and pull them through the backplate.



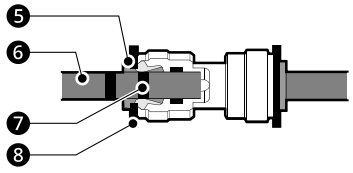
5 Hold the water supply connection and gently push in the collet ❹ to connect the water supply lines as shown. Insert the tube at least 5/8 inch (15 mm) into the connector. Insert the clip on the joint to fasten the tubes in place.



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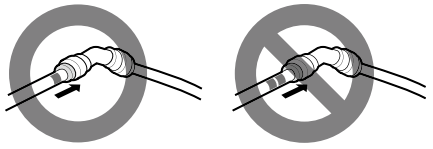
NOTE

- Disassembling/Assembling the Water Lines



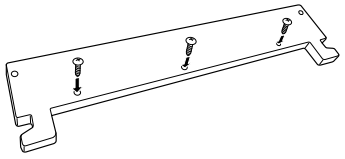
❺ Collet ❻ Tube ❼ Insert line ❽ Clip

- Gently press the collet and insert the tube until only one line shows on the tube.



Assembling the Hinge Cover

Position the hinge cover in its place. Insert and tighten the cover screws.



Connecting Refrigerator to Water Supply

Before Beginning

These instructions assume you have an existing water supply connection for the refrigerator. If necessary, call a qualified plumber to install a water supply line for the refrigerator.

- Turn the icemaker OFF if the refrigerator will be used before the water line is connected.
- Do not install the icemaker tubing in areas where the ambient temperatures fall below freezing.

⚠ WARNING

- Connect to potable water supply only.

⚠ CAUTION

- To prevent burns and product damage, only connect the refrigerator water line to a cold water supply.
- Wear eye protection during installation to prevent injury.

Water Pressure

You will need a cold water supply.

Water Pressure

- **Models with water filter:**
  - 20 - 120 psi (138 - 827 kPa)
- **Where reverse osmosis water filtration system is connected to a cold water supply:**
  - 40 - 60 psi minimum to reverse osmosis system (2.8 kgf/cm^2 - 4.2 kgf/cm^2, or less than 2 - 3 seconds to fill a cup of 7 oz capacity)

If the water pressure from the reverse osmosis system is less than 20 psi or 138 kPa or 1.4 kgf/cm^2 (takes more than 4 seconds to fill a cup of 7 oz or 198 cc capacity):

- Check to see if the sediment filter in the reverse osmosis system is blocked. Replace the filter if necessary.
- Allow the storage tank on the reverse osmosis system to refill after heavy usage.
- If the water pressure remains low, call a licensed, qualified plumber.
- All installations must be in accordance with local plumbing code requirements.

Supplies Needed

- **PEX Tubing,** ¼ in. outer diameter, to connect the refrigerator to the water supply. Be sure both ends of the tubing are cut square. To determine how much tubing you need, measure the distance from the water valve on the back of the refrigerator to the water supply pipe. Then, add 8 feet (2.4 m). Be sure there is sufficient extra tubing (about 8 feet [2.4 m] coiled into 3 turns of about 10 in. [25 cm] diameter) to allow the refrigerator to move out from the wall after installation.
- **½ in. or adjustable wrench.**
- **Flat-blade and Phillips screwdrivers.**

NOTE

- The hookup line cannot be white, plastic tubing. Licensed plumbers must use only Cross Link Polyethylene (PEX) tubing.
- Be sure there is sufficient extra tubing (about 8 ft. coiled into three turns of about 10 in.

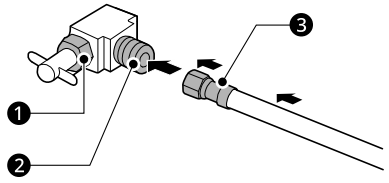
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diameter) to allow the refrigerator to move out from the wall after installation.

Connecting Water Line to Refrigerator

1 Connect the tubing to the shutoff valve.

- If using PEX tubing, connect the fittings on both ends of the tubing to the shutoff valve. Make sure the tubing is fully inserted into the valve. Tighten the compression nut securely.



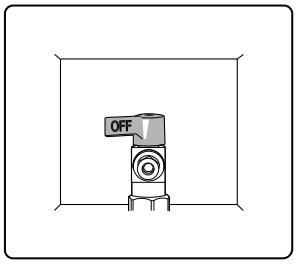
❶ Packing Nut

❷ Shutoff Valve

❸ Fitting

2 Flush out the tubing into a bucket.

- Flush out the tubing coming from the home water supply until the water is clear. Shut the water off at the water valve after about one quart of water has been flushed through the tubing.



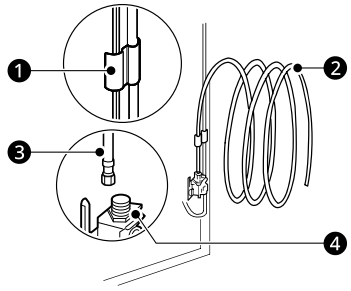
NOTE

- Before making the connection to the refrigerator, be sure that the refrigerator power cord is not plugged into the wall outlet.

3 Remove the flexible plastic cap from the water valve on the refrigerator.

4 Place the compression nut and ferrule (sleeve) onto the end of the tubing as shown. If you are using a PEX connection kit, it may already have the required fittings.

5 Insert the end of the PEX tubing into the connection as far as possible. While holding the tubing, tighten the fitting.



❶ Tubing Clamp

❷ ¼ in. Tubing

❸ ¼ in. PEX Tubing

❹ Refrigerator Connection

6 Turn the water on at the shutoff valve.

- Tighten any connections that leak.

⚠ CAUTION

- Check to see if leaks occur at the water line connections.
- Make sure the house water valve is fully open. If it is not open completely, the icemaker and dispenser may not work properly.

Leveling and Door Alignment

Leveling

The refrigerator has two front leveling legs. Adjust the legs to alter the tilt from front-to-back or side-to side. If the refrigerator seems unsteady, or the doors do not close easily, adjust the refrigerator's tilt using the instructions below.

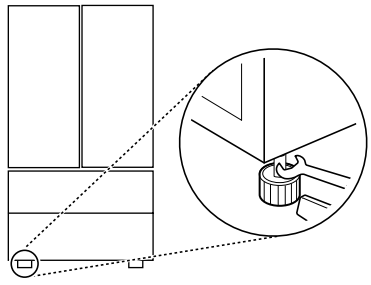
1 Turn the leveling leg to the left to raise that side of the refrigerator or to the right to lower

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it. It may take several turns of the leveling leg to adjust the tilt of the refrigerator.

NOTE

- A flare nut wrench works best, but an open-end wrench will suffice. Do not over-tighten.

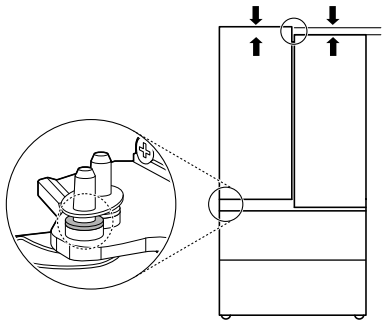


2 Open both doors and check to make sure that they close easily. If the doors do not close easily, tilt the refrigerator slightly more to the rear by turning both leveling legs to the left. It may take several more turns, and be sure to turn both leveling legs the same amount.

Door Alignment

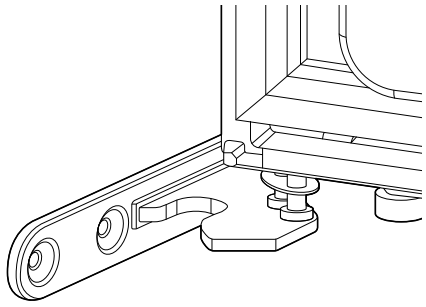
Both the left and right refrigerator doors can be raised and lowered by inserting or removing rings on the bottom hinges to ensure proper alignment.

If the space between the doors is uneven, follow the instructions below to align the doors:



1 Open the door and lift it from the bottom.

2 Lift the 2-hole washer.



3 Insert the snap ring to adjust the height.

While the door is lifted, have an assistant insert the snap ring under the 2-hole washer. The snap ring may differ depending on the model.

- Snap ring type A



Use pliers to insert the snap ring under the 2-hole washer of the inner door section as shown.

Insert additional snap rings until both the left and right refrigerator doors are aligned.

- Snap ring type B



Insert only one snap ring on the middle hinge of the inner door section as shown.

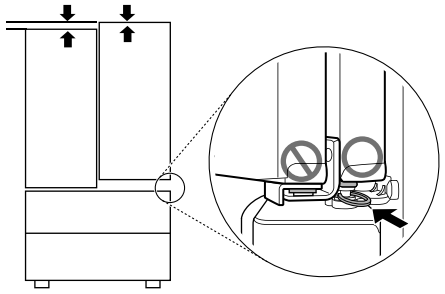
- If a snap ring is already inserted under the 2-hole washer, remove the snap ring before inserting a new snap ring.

⚠ CAUTION

- The door is heavy. To avoid injury, use two or more people to lift and align the refrigerator door.
- Small parts are a swallowing hazard for small children. Keep snap rings out of the reach of children.

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- On door-in-door models, insert the snap ring on the hinge of the INNER door section.



NOTE

- The number of freezer drawers may vary depending on the model.

Turning on the Power

- After installing, plug the refrigerator's power cord into a 3-prong grounded outlet and push the refrigerator into the final position.

⚠ CAUTION

- Connect to a rated power outlet.
- Have a certified electrician check the wall outlet and wiring for proper grounding.
- Do not damage or cut off the ground terminal of the power plug.

Position the Refrigerator

- If the refrigerator is connected to water, arrange the coil of tubing so that it does not vibrate against the back of the refrigerator or against the wall. Push the refrigerator back toward the wall, leaving adequate clearance.

Start the Icemaker

- If the water line is connected, turn icemakers on.
  - To turn icemakers on, set the icemaker power switch to the ON position or refer to **Control Panel** in the **Operation** section.
- The icemaker will not begin to operate until it reaches its operating temperature of 15 °F (–9 °C) or below. It will then begin operation automatically if the icemaker has been turned ON.