



APPENDIX H
: USER'S MANUAL



ENGLISH

FRANÇAIS

ESPAÑOL

OWNER'S MANUAL FRENCH DOOR REFRIGERATOR

Please read this owner's manual thoroughly before operating and keep it handy for reference at all times.

LUPXS3186N



MFL68302707

www.lg.com

ENGLISH

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PRODUCT FEATURES

* Depending on the model, some of the following functions may not be available.



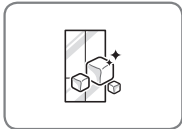
DOOR ALARM

The Door Alarm function is designed to prevent refrigerator malfunctioning that could occur if a refrigerator door or freezer door remains open. If a refrigerator door or freezer door is left open for more than 60 seconds, a warning alarm sounds at 30 second intervals until it is closed.



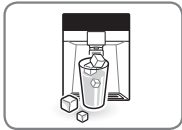
AUTO CLOSING HINGE

The refrigerator doors close automatically with a slight push. (The door only closes automatically when it is open at an angle less than 30°.)



ICE PLUS

Ice production can be increased by approximately 20 percent when the freezer section is maintained at the coldest temperature for a 24-hour period.



MEASURED FILL DISPENSER

Select from the Measured Fill menu on the dispenser to quickly dispense pre-measured amounts automatically.



KNOCK-ON DOOR-IN-DOOR

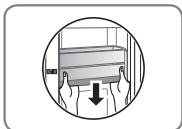
See at a glance if you have enough mustard or cold soft drinks without opening the door and allowing the cold air to escape.

See at a glance if you have enough mustard or cold soft drinks without opening the door and allowing the cold air to escape.



AUTO DOOR OPENING

When your hands are full of groceries, open the refrigerator door automatically by placing a foot near the Auto Door sensor.



FOLD-DOWN BIN RAILS

Use the metal bars on the DID bins as either bin dividers or as rails to keep tall items secure.

IMPORTANT SAFETY INSTRUCTIONS

READ ALL INSTRUCTIONS BEFORE USING THE APPLIANCE.

This guide contains many important safety messages. Always **read and obey** all safety messages.



This is the safety alert symbol. It alerts you to safety messages that inform you of hazards that can kill or hurt you or others, or cause damage to the product.

All safety messages will be preceded by the safety alert symbol and the hazard signal word WARNING or CAUTION. These words mean:



WARNING You can be killed or seriously injured if you do not follow instructions.



CAUTION Indicates an imminently hazardous situation which, if not avoided, may result in minor or moderate injury, or product damage.



WARNING

To reduce the risk of fire, electric shock, or personal injury when using your product, basic safety precautions should be followed, including the following:

Power

- NEVER unplug your refrigerator by pulling on the power cord. Always grip the plug firmly and pull it straight out from the outlet.
- If the supply cord is damaged, it must be replaced by the manufacturer or its service agent or a similarly qualified person in order to avoid a hazard. Do not use a cord that shows cracks or abrasion damage along its length or at either the plug or connector end.
- Do not use an uncertified power outlet.
- Unplug the power plug immediately in the event of a blackout or thunderstorm.
- Plug in the power plug with the power cord facing downward.

Installation

- Contact an authorized service center before you install or relocate the refrigerator.
- When moving your refrigerator away from the wall, be careful not to roll over or damage the power cord.
- Prior to use, ensure that you are connecting this product to a dedicated, grounded electrical outlet rated for use with this product (115V, 60Hz, AC only). It is the user's responsibility to replace a standard 2-prong wall outlet with a standard 3-prong wall outlet.
- Do not install the refrigerator where there may be a danger of the unit falling.

Use

- DO NOT allow children to climb, stand, or hang on the refrigerator doors or on the shelves in the refrigerator. They could damage the refrigerator and seriously injure themselves.
- Do not hang on to or place heavy objects on the refrigerator's dispenser.
- Do not place heavy or dangerous objects (bottles with liquid) on the refrigerator.
- Do not put live animals inside the refrigerator.
- Do not allow children to climb into the product when it is in use.
- In the event of a gas leak (propane/LPG), ensure adequate ventilation and contact an authorized service center before resuming use. Do not touch or disassemble the electric outlet of the refrigerator.
- In the event of a refrigerant leak, move flammable objects away from the refrigerator. Ensure adequate ventilation and contact an authorized service center.
- Do not use or place flammable substances (chemicals, medicine, cosmetics, etc) near the refrigerator or store them inside the refrigerator. Do not place the refrigerator in the vicinity of flammable gas.
- Do not overfill or pack items too tightly into door bins. Doing so may cause damage to the bin or personal injury if items are removed with excessive force.

READ ALL INSTRUCTIONS BEFORE USING THE APPLIANCE.

To reduce the risk of fire, electric shock, or personal injury when using your product, basic safety precautions should be followed, including the following:

- Do not hit the glass door panel with excessive force. Do not allow hard objects like cookware or glass bottles to hit the glass door panel. The glass could break, resulting in a risk of personal injury or product damage.
- This product is not to be used for special purposes such as the storage of medicine or test materials or for use on ships, etc.
- Unplug the power plug before cleaning or repairing the refrigerator.
- When you replace the light bulb in the refrigerator, unplug the refrigerator or turn off the power.
- Do not modify or extend the power cord.
- Do not use a dryer to dry the interior. Do not light a candle to remove interior odors.
- For your safety, this appliance must be properly grounded. Have the wall outlet and the circuit checked by a qualified electrician to make sure the outlet is properly grounded.
- Do not use an outlet that can be turned off with a switch. Do not use an extension cord. It is the user's responsibility to replace a standard 2-prong wall outlet with a standard 3-prong wall outlet.
- Do not, under any circumstances, cut or remove the third (ground) prong from the power cord.
- Do not use an adapter plug and plug the power plug into a multi-outlet extension cord.
- Disconnect the power cord immediately if you hear a noise, smell a strange odor or detect smoke coming from the appliance.
- Turn the power off if water or dust penetrates into the refrigerator. Call a service agent.
- Do not disassemble or modify the refrigerator.
- Do not put hands, feet, or metal objects below or behind the refrigerator.
- Do not operate the refrigerator or touch the power cord with wet hands.
- In refrigerators with automatic icemakers, avoid contact with the moving parts of the ejector mechanism or with the heating element that releases the cubes. Do not place fingers or hands on the automatic ice-making mechanism while the refrigerator is plugged in.
- When dispensing ice from the dispenser, do not use crystal ceramics.
- Do not touch the cold surfaces in the freezer compartment with wet or damp hands, when your refrigerator is in operation.
- Do not put glass containers, glass bottles or soda in the freezer.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning the use of the appliance by a person responsible for their safety.
- Do not refreeze frozen food that has thawed completely. Doing so may result in a serious health issue.
- If you are throwing away your old refrigerator, make sure the CFC coolant is removed for proper disposal by a qualified servicer. If you release CFC coolant, you may be fined or imprisoned in accordance with the relevant environmental law.
- Junked or abandoned refrigerators are dangerous, even if they are sitting for only a few days. When disposing of the refrigerator, remove the packing materials from the door or take off the doors but leave the shelves in place so that children may not easily climb inside.
- If connected to a circuit protected by fuses, use time delay fuse.

WARNING

This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. ***Wash hands after handling.***

READ ALL INSTRUCTIONS BEFORE USING THE APPLIANCE.

To reduce the risk of fire, electric shock, or personal injury when using your product, basic safety precautions should be followed, including the following:

**Installation**

- The refrigerator must be properly installed in accordance with the Installer Instructions that were taped to the front of the refrigerator.
- Be careful when you unpack and install the refrigerator. Immediately dispose of plastic and other packing materials out of reach of children.
- The appliance must be positioned for easy access to a power source.

Use

- Close the door carefully when children are around.
- Keep fingers out of pinch point areas; clearances between the doors and cabinets are necessarily small. Be careful closing doors when children are nearby.
- If you store food improperly, be aware that it may fall and cause injury.
- Do not use aerosols near the refrigerator.
- Do not store articles on the top of the appliance.

Maintenance

- Do not use strong detergents like wax or thinners for cleaning. Clean with a soft cloth.
- Wipe foreign objects (such as dust and water) off the prongs of the power plug and contact areas regularly.
- Do not store, disassemble or repair the refrigerator by yourself.
- Remove any dust or foreign matter from the power plug pins.
- Do not use a wet or damp cloth when cleaning the plug.
- If the refrigerator is disconnected from the power supply, you should wait for at least five minutes before plugging it back in.
- If you notice a chemical or burning plastic smell or see smoke, unplug the refrigerator immediately and contact your LG Electronics Service Center.

SAVE THESE INSTRUCTIONS

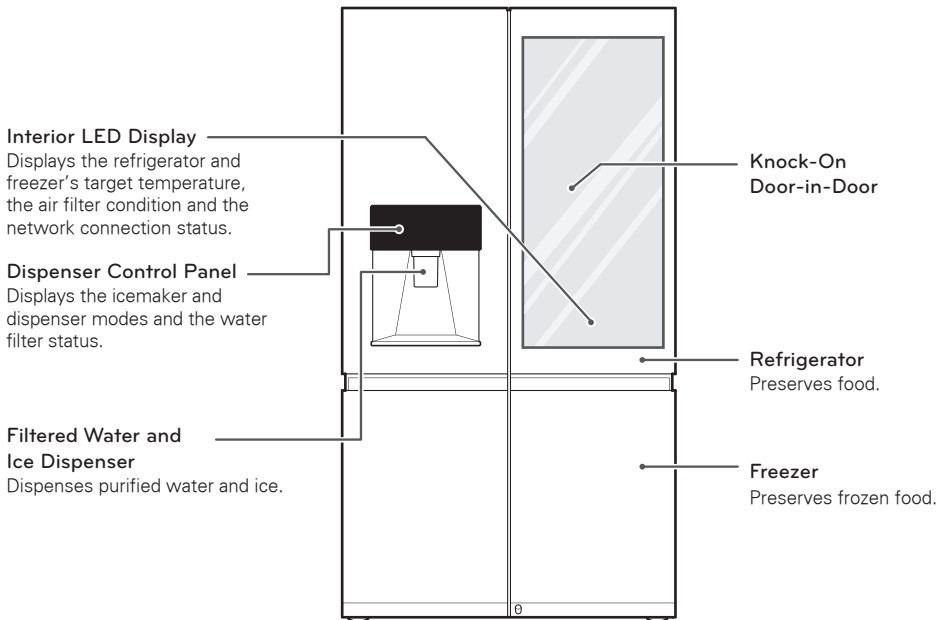
COMPONENTS

Use this page to become more familiar with the parts and features of your refrigerator.

*The appearance and specifications of the actual product may differ depending on the model.

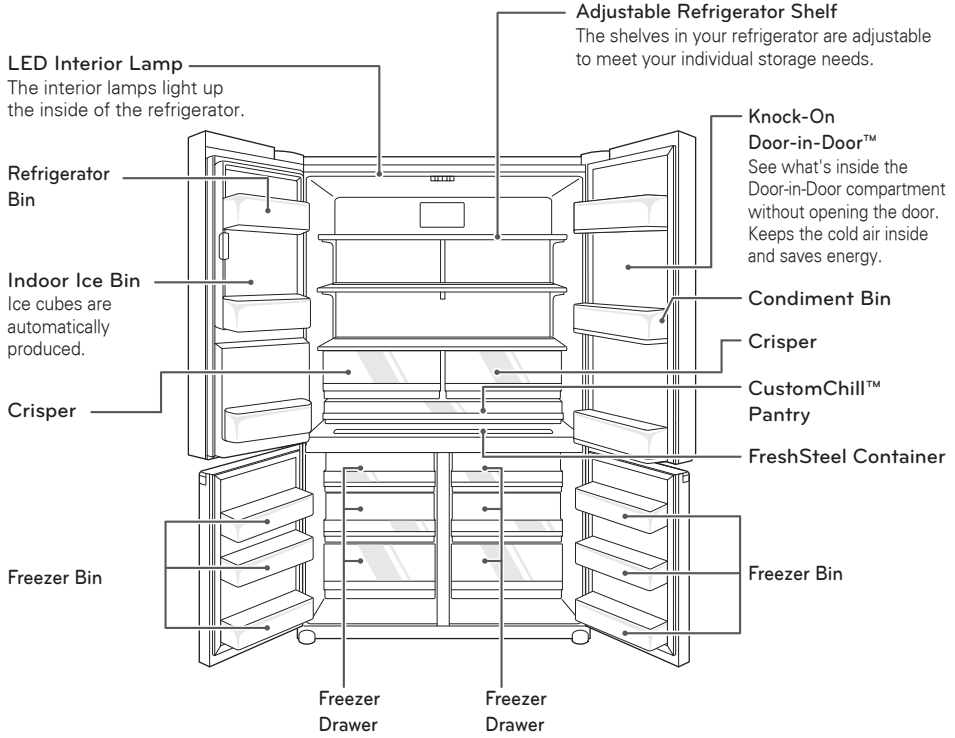
ENGLISH

Refrigerator Exterior



ENGLISH

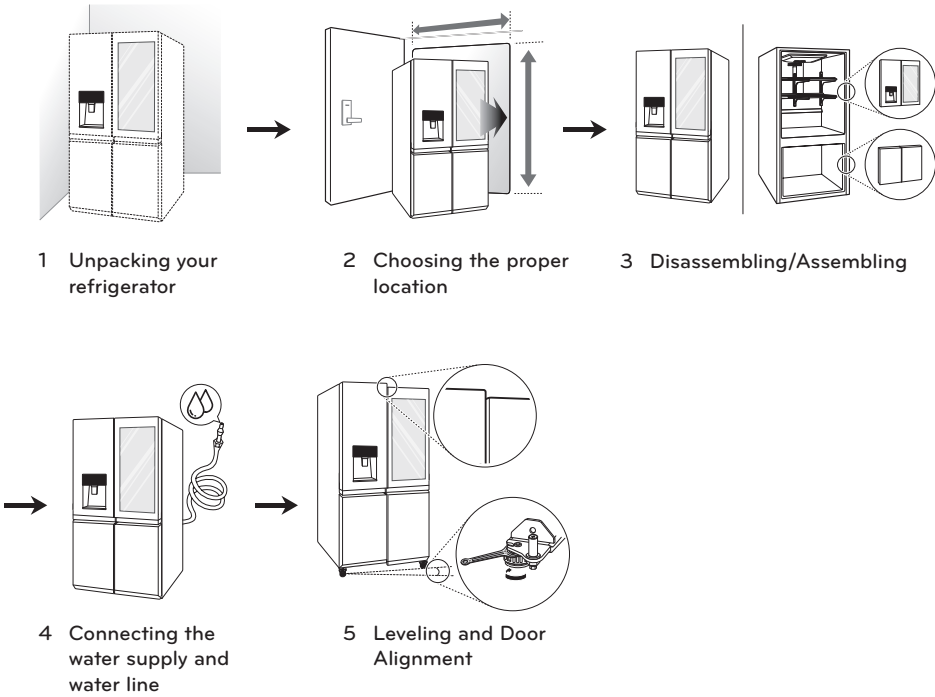
Refrigerator Interior



INSTALLATION

Installation Overview

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



NOTE
 Connect to potable water supply only.

Specifications

The appearance and specifications listed in this manual may vary due to constant product improvements.

Bottom-freezer refrigerator model LUPXS3186N	
Description	French door refrigerator
Electrical requirements	115 VAC @ 60 Hz
Min./Max. Water pressure	20 - 120psi (138 - 827kPa)
Dimensions	35 7/8" (W) x 36 1/2" (D) x 70 1/4" (H) x 51 1/8" (D w/ door open) 912(W) X 929(D) X 1784(H) X 1298 mm (D w/ door open)
Net weight	473 lb. (215 kg)

Unpacking the Refrigerator



WARNING

- Use two or more people to move and install the refrigerator. Failure to do so can result in back or other injury.
- Your refrigerator is heavy. When moving the refrigerator for cleaning or service, be sure to protect the floor. 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.

Remove tape and any temporary labels from your refrigerator before using. Do not remove any warning-type 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.

Refrigerator shelves are installed in the shipping position. Please reinstall shelves according to your individual storage needs.

Choosing the Proper Location

- Select a place where a water supply can be easily connected for the automatic icemaker.



NOTE

The water pressure must be 20~120 psi or 138~827 kPa or 1.4~8.4 kgf/cm² on models without a water filter and 40~120 psi or 276~827 kPa or 2.8~8.4 kgf/cm² on models with a water filter.

- The refrigerator should always be plugged into its own individual properly grounded electrical outlet rated for 115 Volts, 60 Hz, AC only, and fused at 15 or 20 amperes. This provides the best performance and also prevents overloading house wiring circuits which could cause a fire hazard from overheated wires. It is recommended that a separate circuit serving only this appliance be provided.



WARNING

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 leveled and installed on a solidly constructed floor. If required, adjust the leveling legs to compensate for unevenness of the floor. The front should be slightly higher than the rear to aid in door closing. Leveling legs can be turned easily by tipping the cabinet slightly. Turn the leveling legs to the left to raise the unit or to the right to lower it. (See Leveling and Door Alignment.)



NOTE

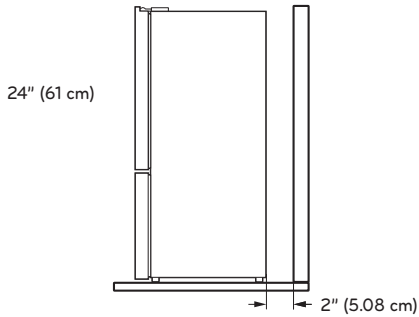
Installing on carpeting, soft tile surfaces, a platform or weakly supported structure is not recommended.

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.

Measuring the Clearances

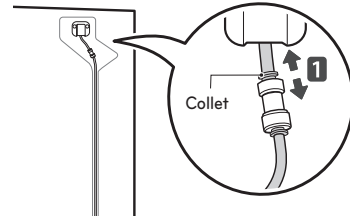
Too small of a distance from adjacent items may result in lowered freezing capability and increased electricity consumption charges. Allow at least 24 inches (61 cm) in front of the refrigerator to open the doors, and at least 2 inches (5.08 cm) between the back of the refrigerator and the wall.



Removing/Assembling the Doors

Removing the Left Refrigerator Door

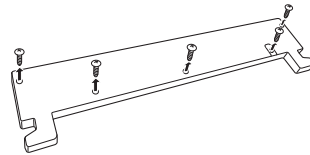
- 1 The water supply is connected to the upper right part of the rear surface of the refrigerator. Remove the ring in the joint area. Hold the water supply connection and gently push the collet to detach the water supply line as shown in **1**.



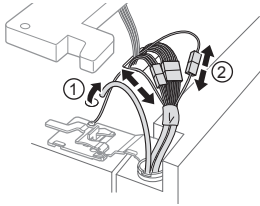
NOTE

Detachment of the water supply line is applicable only when detaching the left refrigerator door.

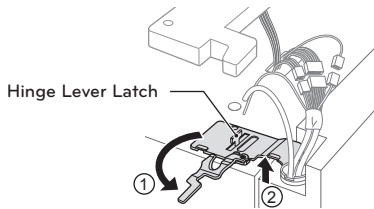
- 2 Remove the screws from the hinge cover at the top of the refrigerator. Lift the hook(not visible), located on the side of the cover at the bottom edge, with a flat-head screwdriver.



- 3 Remove the cover and pull out the tube 1. Disconnect all wire harnesses 2.

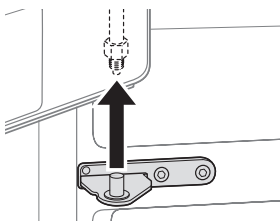


- 4 Rotate the hinge lever counterclockwise 1. Lift the top hinge 2 free of the hinge lever latch.



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

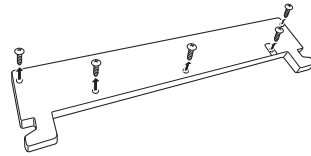
- 5 Lift the door from the middle hinge pin and remove the door.



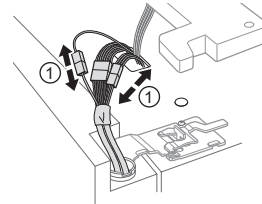
CAUTION
Place the door, inside facing up, on a non-scratching surface.

Removing the Right Refrigerator Door

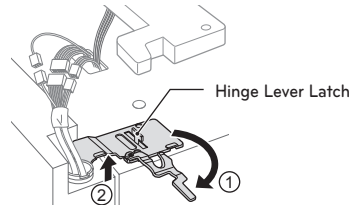
- 1 Remove the screws from the hinge cover at the top of the refrigerator. Lift the hook(not visible), located on the side of the cover at the bottom edge, with a flat-head screwdriver.



- 2 Detach the wire harness 1.

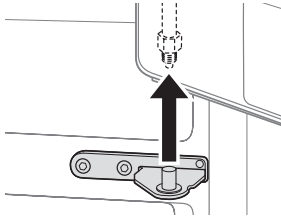


- 3 Rotate the hinge lever 1 clockwise. Lift the top hinge 2 free of the hinge lever latch.



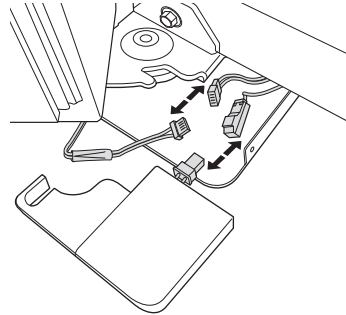
CAUTION
When lifting the hinge free of the hinge lever latch, be careful that the door does not fall forward.

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

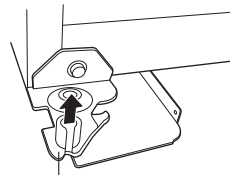


CAUTION
Place the door, inside facing up, on a non-scratching surface.

- Disconnect all wire harnesses.



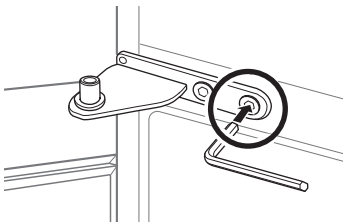
- Remove the door by lifting it off the lower hinge pin.



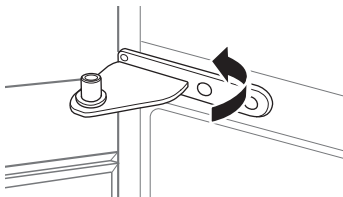
Lower hinge

Removing the Freezer Doors

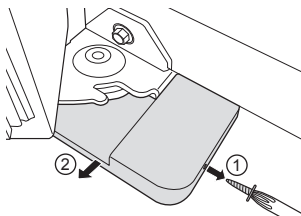
- Remove the inner hinge bolt.



- Twist the hinge to raise the pivoting end so that the door can be lifted off. Lift the door off the lower hinge pin and remove it.

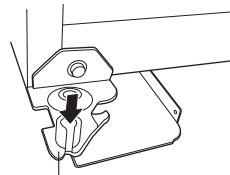


- Unscrew the screw that attaches the lower hinge cover and remove the cover.



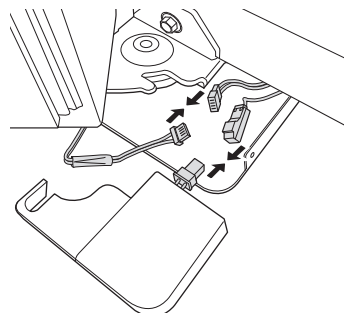
Assembling the Freezer Doors

- Lower the door onto the lower hinge pin.

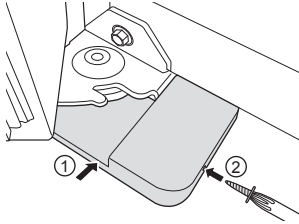


Lower hinge

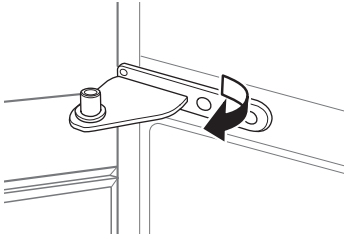
- Connect the wire harnesses.



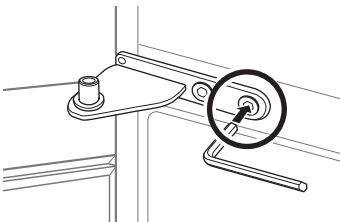
- 3 Position the bottom hinge cover in its place **1** and tighten the cover screw **2**.



- 4 Position the middle hinge pin in place to hold the door and insert the inner hinge bolt.



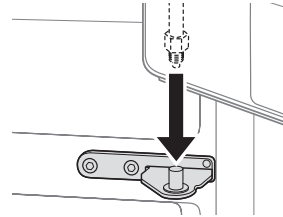
- 5 Tighten the inner hinge bolt.



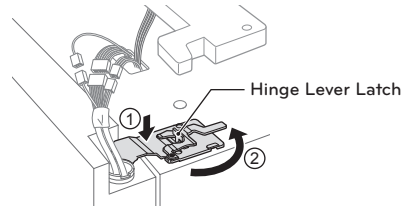
Assembling the Right Refrigerator Door

Install the right refrigerator door first.

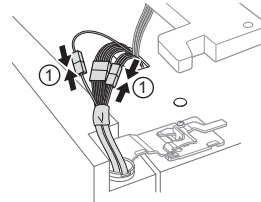
- 1 Make sure that the plastic sleeve is inserted in the bottom of the door. Lower the door onto the middle hinge pin as shown in the figure.



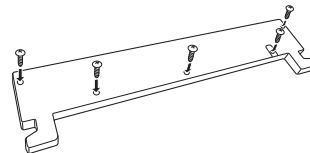
- 2 Fit the hinge **1** over the hinge lever latch and slot it into place. Rotate the lever **2** counterclockwise to secure the hinge.



- 3 Connect the wire harness **1**.



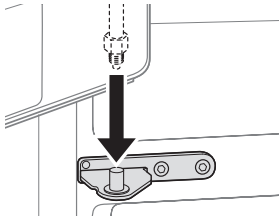
- 4 Position the cover in its place. Insert and tighten the cover screws.



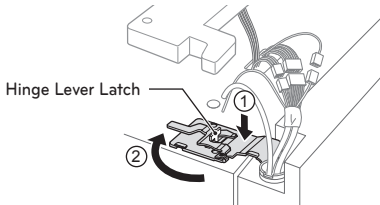
Assembling the Left Refrigerator Door

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

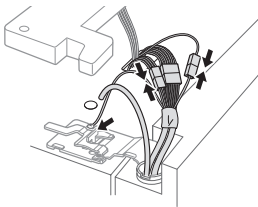
- 1 Make sure that the plastic sleeve is inserted in the bottom of the door. Install the refrigerator door onto the middle hinge pin.



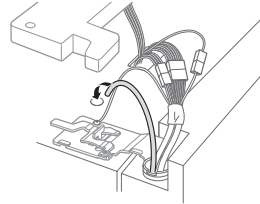
- 2 Fit the hinge **1** over the hinge lever latch and slot it into place. Rotate the lever clockwise **2** and fasten the hinge.



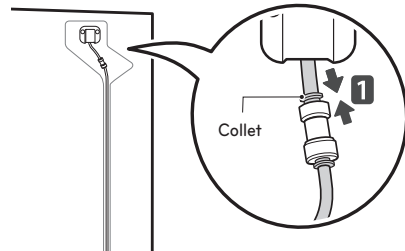
- 3 Connect all the wire harnesses.



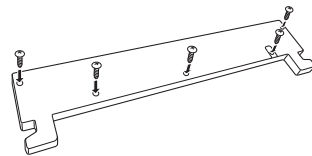
- 4 Push the water supply tube into the hole on the top case and pull it through the backplate.



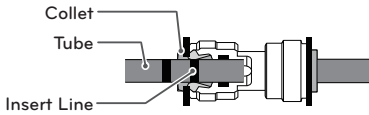
- 5 Hold the water supply connection and gently push in the collet to connect the water supply line as shown in **1**. Insert the tube at least $\frac{5}{8}$ inch (15 mm) into the connector.



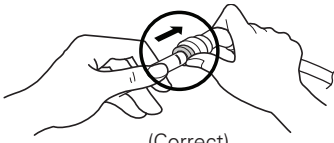
- 6 Position the cover in its place. Insert and tighten the cover screws.



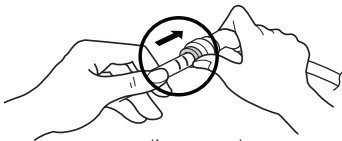
NOTE



- 1) Gently insert the tube until only one line shows on the tube.



(Correct)



(Incorrect)

- 2) Pull the tube to make sure that the tube is tightly fastened.

Connecting the Water Line

Before You Begin

This water line installation is not covered by the refrigerator warranty. Follow these instructions carefully to minimize the risk of expensive water damage.

Water hammer (water banging in the pipes) in house plumbing can cause damage to refrigerator parts and can lead to water leakage or flooding. Call a qualified plumber to correct water hammer before installing the water supply line to the refrigerator.



CAUTION

To prevent burns and product damage, only connect the refrigerator water line to a cold water supply.

If you use your refrigerator before connecting the water line, make sure the icemaker power switch is in the OFF (O) position.



CAUTION

Do not install the icemaker tubing in areas where temperatures fall below freezing.

Water Pressure

The water pressure must be 20~120 psi or 138~827 kPa or 1.4~8.4 kgf/cm² on models without a water filter and 40~120 psi or 276~827 kPa or 2.8~8.4 kgf/cm² on models with a water filter.

If a reverse osmosis water filtration system is connected to the cold water supply, this water line installation is not covered by the refrigerator warranty. Follow the instructions carefully to minimize the risk of expensive water damage.

If a reverse osmosis water filtration system is connected to the cold water supply, the water pressure to the reverse osmosis system needs to be a minimum of 40 to 60 psi (276~414 kPa or 2.8~4.2 kgf/cm², less than 2.0~3.0 sec. to fill a cup of 7 oz or 198 cc capacity).



CAUTION

Wear eye protection during installation to prevent injury.

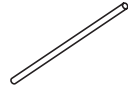
If the water pressure from the reverse osmosis system is less than 20 psi or 138 kPa or 1.4 kgf/cm² (takes more than 4.0 sec to fill a cup of 7 oz or 198 cc capacity):

- 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 issue concerning water pressure from reverse osmosis remains, call a licensed, qualified plumber.
- All installations must be in accordance with local plumbing code requirements.

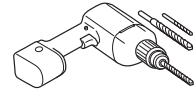
What You Will Need

- **Copper Tubing**, ¼ in. outer diameter, to connect the refrigerator to the water supply. Be sure both ends of the tubing are cut square.

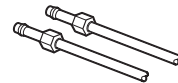
- To determine how much tubing you need: measure the distance from the water valve on the back of the refrigerator to the water supply pipe. Then, add 8 feet (2.4 m). Be sure there is sufficient extra tubing (about 8 feet [2.4 m] coiled into 3 turns of about 10 in. [25 cm] diameter) to allow the refrigerator to move out from the wall after installation.



- **Power drill.**
- **½ in. or adjustable wrench.**

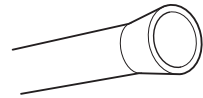


- **Flat blade and Phillips head screwdrivers.**

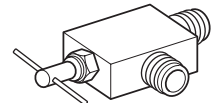


- **Two ¼ in. outer diameter compression nuts and 2 ferrules (sleeves)** to connect the copper tubing to the shutoff valve and the refrigerator water valve.

- If your existing copper water line has a flared fitting at the end, you will need an adapter (available at plumbing supply stores) to connect the water line to the refrigerator OR you can cut off the flared fitting with a tube cutter and then use a compression fitting.



- **Shutoff valve** to connect to the cold water line. The shutoff valve should have a water inlet with a minimum inside diameter of 5/32 in. at the point of connection to the COLD WATER LINE. Saddle-type shutoff valves are included in many water supply kits. Before purchasing, make sure a saddle-type valve complies with your local plumbing codes.



NOTE

A self piercing saddle type water valve should not be used.

Water Line Installation Instructions

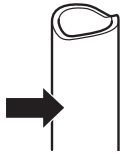
⚠ WARNING

When using any electrical device (such as a power drill) during installation, be sure the device is battery powered, double insulated or grounded in a manner that will prevent the hazard of electric shock.

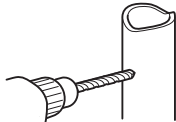
Install the shutoff valve on the nearest frequently used drinking water line.

- 1 SHUT OFF THE MAIN WATER SUPPLY**
Turn on the nearest faucet to relieve the pressure on the line.
- 2 CHOOSE THE VALVE LOCATION**

Choose a location for the valve that is easily accessible. It is best to connect into the side of a vertical water pipe. When it is necessary to connect into a horizontal water pipe, make the connection to the top or side, rather than at the bottom, to avoid drawing off any sediment from the water pipe.



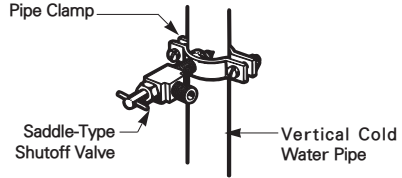
- 3 DRILL THE HOLE FOR THE VALVE**
Drill a 1/4 in. hole in the water pipe using a sharp bit. Remove any burrs resulting from drilling the hole in the pipe. Be careful not to allow water to drain into the drill. Failure to drill a 1/4 in. hole may result in reduced ice production or smaller cubes.



⚠ NOTE

The hookup line cannot be white, plastic tubing. Licensed plumbers must use only copper tubing (NDA tubing #49595 or #49599) or Cross Link Polyethylene (PEX) tubing.

- 4 FASTEN THE SHUTOFF VALVE**
Fasten the shutoff valve to the cold water pipe with the pipe clamp.

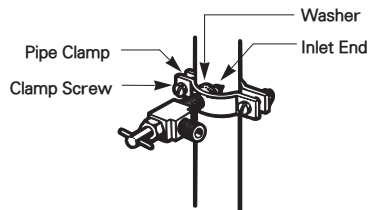


⚠ NOTE

Commonwealth of Massachusetts Plumbing Codes 248CMR shall be adhered to. Saddle valves are illegal and their use is not permitted in Massachusetts. Consult with your licensed plumber.

- 5 TIGHTEN THE PIPE CLAMP**
Tighten the clamp screws until the sealing washer begins to swell.

NOTE: Do not overtighten the clamp or you may crush the tubing.



- 6 ROUTE THE TUBING**
Route the tubing between the cold water line and the refrigerator.

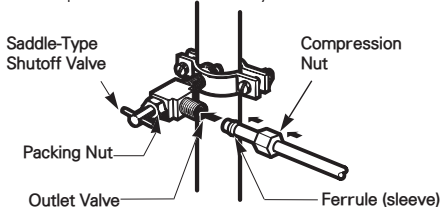
Route the tubing through a hole drilled in the wall or floor (behind the refrigerator or adjacent base cabinet) as close to the wall as possible.

⚠ NOTE

Be sure there is sufficient extra tubing (about 8 feet coiled into 3 turns of about 10 in. diameter) to allow the refrigerator to move out from the wall after installation.

7 CONNECT THE TUBING TO THE VALVE

Place the compression nut and ferrule (sleeve) for the copper tubing onto the end of the tubing and connect it to the shutoff valve. Make sure the tubing is fully inserted into the valve. Tighten the compression nut securely.



8 FLUSH OUT THE TUBING

Turn the main water supply on and flush out the tubing until the water is clear.

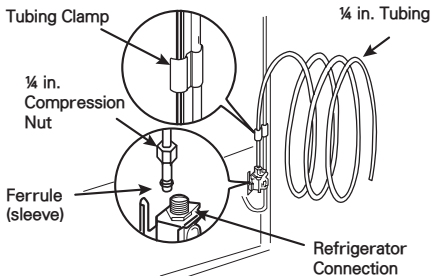
Shut the water off at the water valve after about one quart of water has been flushed through the tubing.



9 CONNECT THE TUBING TO THE REFRIGERATOR

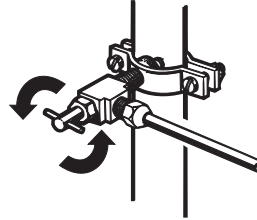
NOTE: Before making the connection to the refrigerator, be sure that the refrigerator power cord is not plugged into the wall outlet.

- a. Remove the plastic flexible cap from the water valve.
- b. Place the compression nut and ferrule (sleeve) onto the end of the tubing as shown.
- c. Insert the end of the copper tubing into the connection as far as possible. While holding the tubing, tighten the fitting.



10 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.

11 PLUG IN THE REFRIGERATOR

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 to the wall.

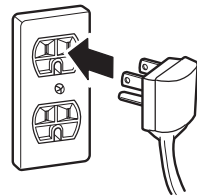
12 START THE ICEMAKER

Turn the icemaker ON at the control panel.

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.

Turning On The Power

Plug in the refrigerator.



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.

Leveling

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

The refrigerator has two front leveling legs—one on the right and one on the left. Adjust the legs to alter the tilt from front-to-back or side-to-side. If the refrigerator seems unsteady, or you want the doors to close more 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 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 again 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 you should turn both leveling legs the same amount.

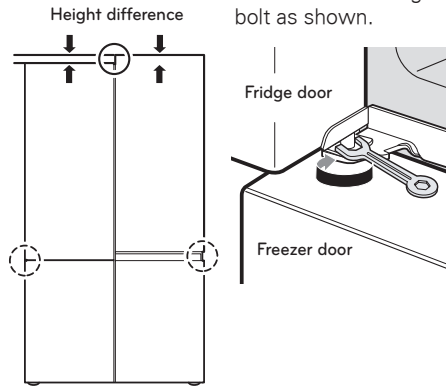
Door Alignment

If the floor is not flat, the door heights may differ. In this case, use the following method to adjust the difference.

Adjusting Door Height

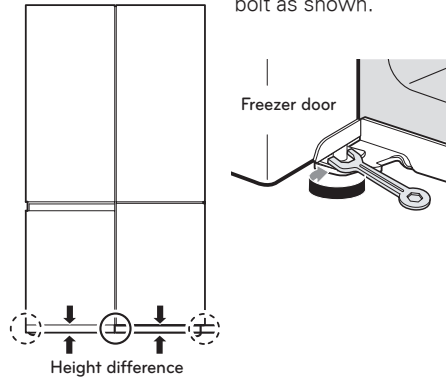
Adjusting Fridge Door Height

Open the fridge door and use a wrench to rotate the door hinge bolt as shown.



Adjusting Freezer Door Height

Open the freezer door and use a wrench to rotate the door hinge bolt as shown.



HOW TO USE

Before use



Clean the refrigerator.

Clean the refrigerator thoroughly and wipe off all dust that accumulated during shipping.



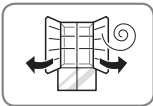
CAUTION

- Do not scratch the refrigerator with a sharp object or use a detergent that contains alcohol, a flammable liquid or an abrasive when removing any tape or adhesive from the refrigerator.
- Do not peel off the model or serial number label or the technical information on the rear surface of the refrigerator.



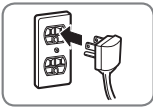
NOTE

Remove adhesive residue by wiping it off with your thumb or dish detergent.



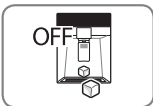
Open refrigerator and freezer doors to ventilate the interior.

The inside of the refrigerator may smell like plastic at first. Remove any adhesive tape from inside the refrigerator and open the refrigerator and the freezer doors for ventilation.



Connect the power supply.

Check if the power supply is connected before use.
Read the "Turning On The Power" section.



Turn off the icemaker if the refrigerator is not yet connected to the water supply.

Turn off the automatic icemaker and then plug the power plug of the refrigerator into the grounded electrical outlet.

* This is applicable only to certain models.



CAUTION

Running the automatic icemaker before connecting it to the water supply may cause the refrigerator to malfunction.



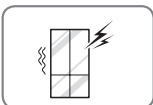
Wait for the refrigerator to cool.

Allow your refrigerator to run for at least two to three hours before putting food in it. Check the flow of cold air in the freezer compartment to ensure proper cooling.



CAUTION

Putting food in the refrigerator before it has cooled could cause the food to spoil, or a bad odor could linger inside the refrigerator.



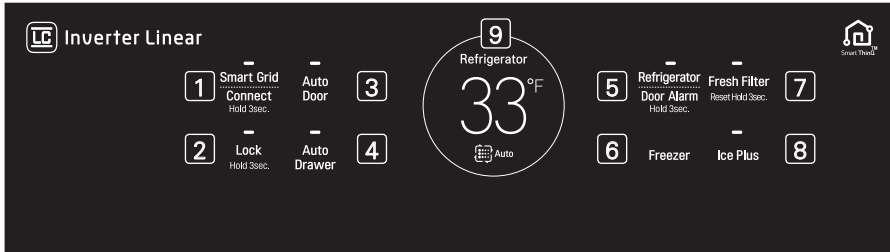
The refrigerator makes a loud noise after initial operation.

This is normal. The volume will decrease as the temperature lowers.

Interior LED Display

Depending on the model, some of the following functions may not be available.

Interior Display Features



1 Smart Grid / Connect

Smart Grid

Press the Smart Grid button to turn the Smart Grid function On/Off. When the function is on, the icon illuminates. The Smart Grid function automatically turns on when the refrigerator is connected to the Wi-Fi network. When the refrigerator is responding to a Demand Response (DR) message from the electric company, the Grid text illuminates.

Connect

The Connect button, when used with the LG Electronics Smart Refrigerator smart phone app, allows the refrigerator to connect to your home's Wi-Fi network. Refer to the *Smart Features* section for information on the initial setup of the application. The Connect icon indicates the status of the refrigerator's network connection. When the refrigerator is connected to the network, the Connect icon is illuminated. Press and hold the Connect button for 3 seconds to connect to the network. The icon will blink while the connection is being made, then turn on once the connection is successfully made. To disconnect, press and hold the button again.

2 Lock

The Lock function disables every other button on the display.

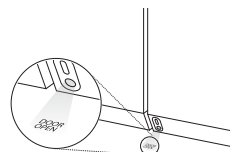
- When power is initially connected to the refrigerator, the Lock function is off.
- To activate the Lock function, press and hold the Lock button until the lock indicator appears in the display. The other buttons are now disabled.
- To disable the Lock function, press and hold the Lock button for approximately three seconds.

3 Auto Door

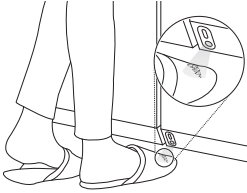
The right refrigerator door opens automatically if you place a foot near the motion sensor at the bottom of the door. This is convenient when you have both hands full of groceries and need to open the refrigerator door. To set the Auto Door function, press the button repeatedly to toggle between the ON, Sound Off, and OFF settings.

Using the Auto Door Function

1. When the Auto Door function is enabled, text is displayed on the floor near the motion sensor.



2. Pass one foot in front of the motion sensor and step on the displayed text. The right door opens. If the door opens less than 20 degrees and is not opened further, it will close automatically after 3 seconds.



NOTE

Disable the Auto Door function if you have young children or people lacking in cognitive ability in the home. They could be injured if the door opens unexpectedly while they are nearby.



CAUTION

Place a foot close enough to the sensor that the text appears on top of the foot, not just on the toes.

NOTE

- The displayed text may not be readable on some flooring materials, but this will not affect the performance of the Auto Door function.
- If flooring material is highly reflective (metal, glass tile), the motion sensor may malfunction and the Auto Door function may not work properly.
- Reflective objects placed in front of the motion sensor may cause the text to display, but the text disappears if no movement is detected.

4 Auto Drawer

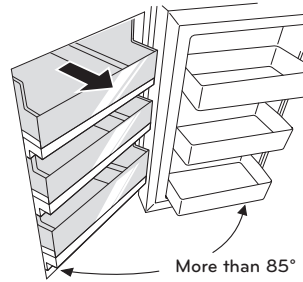
When Auto Drawer is enabled, the freezer drawers automatically open when the freezer door is opened. The drawers automatically close when the freezer door is closed.

Setting the Auto Drawer Function

Press Auto Drawer to activate or deactivate the function. When the function is activated, an icon appears on the display.

Using Auto Drawer

Open the freezer door at least 85 degrees to automatically open the drawers. Slowly close the door to automatically close the drawers.



CAUTION

- Do not use excessive force to push or pull the freezer drawers.
 - Do not slam the freezer door shut while the drawers are open.
- Failure to follow these warnings may result in personal injury or damage to the product.

5 Refrigerator/Door Alarm

Refrigerator

- Indicates the set temperature of the refrigerator compartment in Celsius (°C) or Fahrenheit (°F). The refrigerator temperature control ranges from 30°F to 46°F (1°C to 8°C). The recommended temperature setting for the refrigerator compartment is 37°F (3°C).

Door Alarm

- The door alarm sounds when a refrigerator or freezer door is left open for more than 60 seconds.
- To stop the alarm, close the doors.
- The door alarm is enabled by default. To disable the door alarm, press and hold Door Alarm for three seconds.

6 Freezer

Indicates the set temperature of the freezer compartment in Celsius (°C) or Fahrenheit (°F). The freezer temperature control ranges from -6°F to 8°F (-21°C to -13°C). The recommended temperature setting for the freezer compartment is 0°F (-18°C).

To change the temperature mode from °F to °C (or vice versa) press and hold the Refrigerator and Freezer temperature buttons simultaneously for approximately five seconds. The temperature indication on the display window switches between Celsius and Fahrenheit.



NOTE

The displayed temperature is the target temperature, and not the actual temperature of the refrigerator. The actual refrigerator temperature depends on the food inside the refrigerator.

7 Fresh Filter

The Fresh Air Filter helps remove odors from the refrigerator. The Fresh Air Filter has two settings, Auto and Power(PWR). In Auto mode, the Fresh Air Filter will cycle on and off in increments of ten minutes on and 110 minutes off. If set to the Power(PWR) mode, the Fresh Air Filter will stay on continuously for four hours, cycling on and off in increments of ten minutes on and five minutes off. After four hours, the Fresh Air Filter will switch back to Auto mode.

- Press the Fresh Air Filter button once for Power(PWR) mode.
- Press the Fresh Air Filter button again to switch back to Auto mode.

8 Ice Plus

This function increases both ice making and freezing capabilities.

- Press Ice Plus to illuminate the icon in the display and activate the function for 24 hours. After 24 hours, the icon and the function automatically turn off.
- To deactivate the function manually, press Ice Plus again.

9 Display

The display indicates the current status of the refrigerator. Press any button to display the current setting for that function.

Using the Interior Display

- To turn the interior display on, open a refrigerator or freezer door or knock twice on the Knock-On Door-in-Door to activate the interior LED
- The interior display turns off automatically five seconds after all the doors are closed or five seconds after you have knocked twice on the Knock-On Door-in-Door to turn off the LED.
- The interior display buttons operate using static electricity. Wear gloves while cleaning to avoid activating button functions.
- Keep the display clean and free from foreign substances. Skin must contact the buttons directly for them to properly function.
- Wipe any moisture off the display before using it. Moisture on the display may interfere with the functioning of the buttons.

Smart Features

To use the Smart Features on your refrigerator, you will need the following devices and apps:

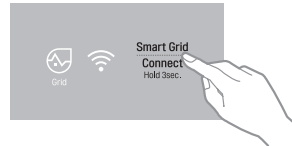
1. a wireless router and home Wi-Fi network
2. the LG Smart Grid refrigerator
3. an Android-based smart phone
4. the LG Smart Refrigerator app from the Google Play Store.

NOTE

To use the Smart Grid feature, you must also register for the Smart Grid (Demand Response) service with your local electric utility company. The company must provide Demand Response service.

Setting Up the Smart App and Connecting the Refrigerator

- 1 Create an account at Smart ThinQ.
<https://us.smartthing.com/>
You will use the ID and password from this account in the smart phone application.
- 2 Download the smart phone app from the Google Play Store. (LG Smart Refrigerator app)
- 3 In the app, select the Smart Model.
- 4 Log in to the app using the Smart ThinQ ID and password created in step 1.
- 5 When prompted, select the Non Touch Screen Model.
- 6 Choose your home wireless router from the list of routers in the app. Your refrigerator and smart phone must both be connected to the same Wi-Fi network.
- 7 If necessary, enter the password for your router and click the connect button in the app.
- 8 Make sure the refrigerator display is active by pressing any button. Press and hold the Smart Grid button on the refrigerator for three seconds. The Connect LED should blink while the connection is being made.



- 9 The app will automatically go through the process of registering your product on the network, using the information you've provided. This may take some time, and the Connect LED will continue to blink during this process. After the registration process is completed, a message is displayed and the app will proceed to the Home screen.
- 10 Check that the Connect LED is illuminated to confirm that the Wi-Fi network is connected. You can now use the app to control the Smart Features on your refrigerator.

NOTE

You must connect the refrigerator to the internet using a wireless router on your home network. Tethering to a mobile phone, hotspot, or an unsecured network, for example, will cause unstable functionality.

LG Smart Refrigerator App - What's Included

Food Manager

Allows you to keep track of items in your refrigerator and freezer, so you can be alerted when they are near their use-by dates, generate grocery lists, and link to related recipes.

Recipes

Features recipes from the Food Channel, searchable by ingredient, course, cuisine, total time required, and the food in your refrigerator (if entered in the Food Manager). Automatically makes grocery lists from chosen recipes.

Grocery

Makes and manages grocery lists from items in your refrigerator or recipes.

Refrigerator Manager

Allows you to control the refrigerator and freezer temperature settings, air filter, water filter, Ice Plus, Smart Saving, and Energy Monitoring from your smart phone.

Smart Diagnosis

Allows you to diagnose and troubleshoot problems with your refrigerator.

Settings

Allows you to set various options on the refrigerator and in the app.

Smart Grid Function

When the refrigerator operates in Smart Grid mode, the Smart Refrigerator function can control energy usage or delay the operation of some functions to save energy during peak usage periods.

- You can override the Smart Grid function at any time (using the Smart Grid button or application).
- To use the Smart Grid function, you need to register your appliance with your electric utility company.

Using the Smart Grid Function

This feature responds to notification events from your utility company to run high energy-consuming tasks during off-peak periods when demand is lower. These notification events are known as Demand Response signals.

If the refrigerator receives a Demand Response signal from the utility company, the refrigerator will turn on the Grid LED on the refrigerator display and control its power consumption according to the signal.

The refrigerator will respond to the signals received from the utility company as long as product performance is maintained.

If the refrigerator receives a Demand Response signal, the refrigerator will operate in Delay Appliance Load (DAL) or Temporary Appliance Load Reduction (TALR) mode.

Delay Appliance Load (DAL): The refrigerator responds to a DAL signal by providing a moderate load reduction for the duration of the delay period. This mode controls functions that consume a lot of energy such as adjusting the cooling system, running the defrost cycle, and making ice.

- When the refrigerator operates in DAL mode, the Grid LED is illuminated on the refrigerator display.
- DAL mode is automatically deactivated after it lasts for the amount of time stipulated by the DAL signal (max. 4 hours) or when you override the Smart Grid function.

Temporary Appliance Load Reduction (TALR) :

The refrigerator responds to a TALR signal by aggressively reducing the load for a short time period, typically 10 minutes. This mode reduces energy consumption by stopping the compressor and controlling the functions that consume a lot of energy such as the defrost cycle and fan.

- When the refrigerator operates in TALR mode, the Grid LED is illuminated on the refrigerator display.
- TALR mode is automatically deactivated after it lasts for the received duration (max. 10 minutes), or when you override the Smart Grid function. The mode is immediately deactivated and the refrigerator returns to its normal state when the door is opened or closed, or the dispenser is used.

Smart Features (continued)

Override Smart Grid Mode

If you want the refrigerator to ignore the Demand Response signal from the utility company, you can override the Smart Grid function by pushing the Smart Grid button while the refrigerator is in Smart Grid mode.

When you override the Smart Grid function, the refrigerator ignores the Demand Response signal and is no longer controlled by the utility company until the next Demand Response signal is sent.

You can also override the Smart Grid function using the smart phone app.

Open API

LG Open API

You can manage Smart Grid features for the LG Smart Refrigerator.

Please check the detailed specifications on the notice page on us.smartthing.com.

API list :

Demand response

- Send demand response signal

Power saving

- Set saving mode
- Get schedule of DR/Delay Defrost

Energy monitoring

- Get setting temperature
- Get door open event
- Get energy consumption

Delay defrost capability

- Insert a delay defrost schedule event
- Update a delay defrost schedule event
- Delete a delay defrost schedule event
- Get the delay defrost schedule

Smart Grid Application Features

1 Smart Saving_Demand Response

You can lower energy usage based on Demand Response (DR) signals from the utility company.

If the refrigerator is operating in Smart Saving mode according to the DR signal, you can see a pop up.

Smart Saving_Delay Defrost

Lower energy usage based on time period.

2 Energy monitoring

The refrigerator can check number of door openings and power consumption.

3 Remote Control

You can control the Refrigerator Temperature, Fresh Air Filter and Ice Plus from the smart phone app.

4 Push messages.

- When the door is open over ten minutes, you will receive a push message.
- When Ice Plus is finished, you will receive a push message.

Open Source Software Notice

Information

To obtain the source code under GPL, LGPL, MPL, and other open source licenses, that is contained in this product, please visit <http://opensource.lge.com>. In addition to the source code, all referred license terms, warranty disclaimers and copyright notices are available for download.

LG Electronics will also provide open source code to you on CD-ROM for a charge covering the cost of performing such distribution (such as the cost of media, shipping, and handling) upon email request to opensource@lge.com. This offer is valid for three (3) years from the date on which you purchased the product.

Wireless module (LCW-003) Specifications	
Frequency Range	2412~2462 MHz
Output Power (max.)	IEEE 802.11 b : 14 dBm IEEE 802.11 g : 15 dBm IEEE 802.11 n : 14 dBm

FCC Notice (For transmitter module contained in this product)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 1) this device may not cause harmful interference and
- 2) this device must accept any interference received, including interference that may cause undesired operation of the device.

Any changes or modifications in construction of this device which are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC RF Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

This equipment should be installed and operated with minimum distance 20 cm (7.8 inches) between the antenna and your body. Users must follow the specific operating instructions for satisfying RF exposure compliance.

Industry Canada Statement (For transmitter module contained in this product)

This device complies with Industry Canada's licence-exempt RSSs. Operation is subject to the following two conditions:

- 1) this device may not cause interference; and
- 2) this device must accept any interference, including interference that may cause undesired operation of the device.

This Class B digital apparatus complies with Canadian ICES-003.

IC Radiation Exposure Statement

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm (7.8 inches) between the antenna & your body.

NOTE

The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.