Scan the QR code to see the manual.

OWNER'S MANUAL

DISHWASHER

Before beginning installation, read these instructions carefully. This will simplify installation and ensure that the product is installed correctly and safely. Leave these instructions near the product after installation for future reference.

ENGLISH

DFGF624*

MFL05937001
Rev.00_111926

www.lg.com

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This manual may contain images or content that may be different from the model you purchased.

This manual is subject to revision by the manufacturer.

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SAFETY INSTRUCTIONS

READ ALL INSTRUCTIONS BEFORE USE

The following safety guidelines are intended to prevent unforeseen risks or damage from unsafe or incorrect operation of the appliance.

The guidelines are separated into 'WARNING' and 'CAUTION' as described below.

Safety Messages

⚠ This symbol is displayed to indicate matters and operations that can cause risk.

Read the part with this symbol carefully and follow the instructions in order to avoid risk.

⚠ **WARNING**

This indicates that the failure to follow the instructions can cause serious injury or death.

⚠ **CAUTION**

This indicates that the failure to follow the instructions can cause minor injury or damage to the product.

WARNING

⚠ WARNING

- To reduce the risk of explosion, fire, death, electric shock, scalding or injury to persons when using this product, follow basic precautions, including the following:

Technical Safety

- This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision

or instruction concerning use of the appliance in a safe way and understand the hazards involved.

- Observe the information given in Specifications regarding the maximum number of place settings to be washed of the dishwasher.
- The water pressure must be between 0.05 MPa and 1.0 MPa.
- Children shall not play with the appliance.

Installation

- Never attempt to operate the appliance if it is damaged, malfunctioning, partially disassembled, or has missing or broken parts, including a damaged cord or plug.
- If the power cord is damaged or the hole of the socket outlet is loose, do not use the power cord and contact an authorized service centre.
- Do not modify the power cord provided with the appliance. Please contact the LG Customer information centre to advise of its incompatibility.
- This appliance should only be transported by two or more people holding the appliance securely.
- Do not install the appliance in a damp and dusty place. Do not install or store the appliance in any outdoor area, or any area that is subject to weathering conditions such as direct sunlight, wind, or rain or temperatures below freezing.
- Do not plug multiple socket outlets, an extension power cable or adapter with this appliance.
- Disconnect the power cord, house fuse or circuit breaker before installing or servicing the appliance.
- Fix the drain hose securely in place.
- This appliance is not designed for maritime use or for mobile installations such as in RVs, trailers, or aircraft.
- This appliance must be positioned near to an electrical power supply.
- When installing or moving the appliance, be careful not to pinch, crush, or damage the power cord.

- Use new hose or hose-set supplied with the appliance. Reusing old hoses can cause a water leak and subsequent property damage.
- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- Improper connection of the equipment-grounding conductor can result in risk of electric shock. Check with a qualified electrician or service personnel if you are in doubt as to whether the appliance is properly grounded.
- This appliance must be grounded. In the event of malfunction or breakdown, grounding will reduce the risk of electric shock by providing a path of least resistance for electric current.
- This appliance is equipped with a power cord having an equipment-grounding conductor and a grounding power plug. The power plug must be plugged into an appropriate socket outlet that is installed and grounded in accordance with all local codes and ordinances.
- After installing, check the hose connection for leaks before moving the appliance into the cabinet opening.
- Do not damage or place heavy items on the power cord of the appliance.
- This appliance is intended to be used in household and domestic applications only and must not be used for commercial purposes.
- This appliance is intended to be used in household and similar applications such as:
  - staff kitchen areas in shops, offices and other working environments;
  - farm houses;
  - by clients in hotels, motels and other residential type environments;
  - bed and breakfast type environments.
- For a permanently connected dishwasher: This appliance must be connected to a grounded metal, permanent wiring system, or an equipment-grounding conductor must be run with the circuit conductors and connected to the equipment-grounding terminal or lead to the appliance.

- Connect the ground wire to the green ground connector in the terminal box.

Operation

- Immediately unplug the power plug and contact an LG Electronics customer information centre if you detect a strange sound, odour, or smoke coming from the appliance.
- Do not repair or replace any part of the appliance. All repairs and servicing must be performed by qualified service personnel unless specifically recommended in this Owner's Manual. Use only authorized factory parts.
- Do not leave the appliance door open. Children may hang on the door or crawl inside the appliance, causing damage or injury.
- Do not use flammable gas and combustible substances (benzene, gasoline, thinner, petroleum, alcohol, etc.) near the appliance.
- Do not attempt to separate any panels or disassemble the appliance. Do not apply any sharp objects to the control panel in order to operate the appliance.
- Do not bend the power cable excessively or place a heavy object on it.
- Do not put animals, such as pets into the appliance.
- Do not touch the power plug or the appliance controls with wet hands.
- If there is a gas leakage (isobutane, propane, natural gas, etc.), do not touch the appliance or power plug and ventilate the area immediately.
- In case of flood, disconnect the power plug and contact the LG Electronics Customer Information Centre.
- Under certain conditions, hydrogen gas may be produced in a hot-water system that has not been used for two weeks or more. HYDROGEN GAS IS EXPLOSIVE. If the hot-water system has not been used for such a period, before using the appliance turn on all hot water tap and let the water flow from each for several minutes. This will release any accumulated hydrogen gas. As the gas is flammable, do not smoke or use an open flame during this time.

- Keep the area underneath and around your appliances free of combustible materials such as lint, paper, rags, chemicals, etc.
- Some dishwasher detergents are strongly alkaline. They can be extremely dangerous if swallowed. Avoid contact with the skin and eyes and keep children away from the dishwasher when the door is open. Check that the detergent receptacle is empty after completion of the wash cycle.
- Do not operate the appliance unless all enclosure panels are properly in place.
- Use only detergents or wetting agents recommended for use in a appliance and keep them out of the reach of children.
- Do not wash and dry articles that have been soaked in explosive substances such as gasoline, solvents, solvent-based detergent.
- When loading items to be washed:
  - Locate sharp items so that they are not likely to damage the door seal.
  - Load sharp knives with the handles up to reduce the risk of cut-type injuries.
- Do not wash plastic items unless they are marked “dishwasher safe” or the equivalent. For plastic items not so marked, check the manufacturer’s recommendations.
- Do not touch any heating element (where it is exposed) during or immediately after use.
- Do not abuse, sit on, or stand on the door or dish rack of the dishwasher.
- After cleaning the dishes, turn off the tap. Turn on the tap again and check the connection status of water supply hose before cleaning.
- Do not open the door while the appliance is in operation. Water will splash out and could cause a slipping hazard.
- Be careful not to catch your hand when closing the door of the appliance.
- Do not come into contact with any fitted steam outlet.

- Small parts, such as rack clips and filter retaining posts can be a choke hazard to small children if removed from the dishwasher. Keep out of reach of small children.
- Knives and other utensils with sharp points must be loaded in the basket with their points down or placed in a horizontal position.
- The door should not be left in the open position since this could present a tripping hazard.
- Do not touch the heat dry blower. During operation, after cycles complete and for periods after operation the heat dry blower can remain extremely hot so you should not touch the area. (Only for models with a heat dry blower.)
- It is not recommended to rinse the dishes manually before operating the dishwasher because it increases water and energy consumption.
- Washing tableware in a household dishwasher usually consumes less energy and water in the use phase than hand dishwashing when the household dishwasher is used according to the manufacturer's instructions.
- Loading the household dishwasher up to the capacity indicated by the manufacturer will contribute to energy and water savings.

Maintenance

- Disconnect the appliance from the power supply before cleaning the appliance. Setting the controls to the OFF or stand by position does not disconnect this appliance from the power supply.
- Cleaning and user maintenance should not be carried out by children without supervision.
- Never unplug the appliance by pulling on the power cable. Always grip the power plug firmly and pull straight out from the socket outlet.
- Securely plug the power plug in the socket outlet after completely removing any moisture and dust.
- Do not spray water inside or outside the appliance to clean it.

Disposal

- Before discarding an old appliance, unplug it. Cut off the cable directly behind the appliance to prevent misuse.
- Dispose of all packaging materials (such as plastic bags and styrofoam) away from children. The packaging materials can cause suffocation.
- Remove the door before disposing of or discarding this appliance to avoid the danger of children or small animals getting trapped inside.

CAUTION

⚠ CAUTION

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

Installation

- Install the product on a firm and level floor.
- Do not put the drain hose under the dishwasher during installation.

Operation

- Turn off the water tap and unplug the appliance if the appliance is to be left for an extended period of time, such as during vacations.
- Do not place objects on the top of the appliance.
- Do not wipe or coat the surface of the product with liquid detergent or bleach (chlorine bleach, oxygen bleach, etc). Failure to follow these instructions may result in corrosion or discoloration of the coating.
- Do not touch water draining from the machine as it may be hot.
- If the drain hose and the water supply hose are frozen in winter, defrost before using.
- Do not put hands, feet, or metal objects below or behind the appliance.

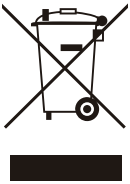
- Do not wash dishes stained with chemical products such as oil, cream or lotions used in a massage parlor, skin care shop, beauty shop or barber shop.

Maintenance

- If cooking oil is spilled on the exterior of the product, wipe it off immediately. Do not clean the exterior of the product with cleaners which contain alcohol, thinners, bleach, benzene, flammable liquids, or abrasives. These substances may discolor or damage the appliance.

CARING FOR THE ENVIRONMENT

Disposal of Your Old Appliance



- This crossed-out wheeled bin symbol indicates that waste electrical and electronic products (WEEE) should be disposed of separately from the municipal waste stream.
- Old electrical products can contain hazardous substances so correct disposal of your old appliance will help prevent potential negative consequences for the environment and human health. Your old appliance may contain reusable parts that could be used to repair other products, and other valuable materials that can be recycled to conserve limited resources.
- You can take your appliance either to the shop where you purchased the product, or contact your local government waste office for details of your nearest authorised WEEE collection point. For the most up to date information for your country, please see http://www.lg.com/global/recycling.

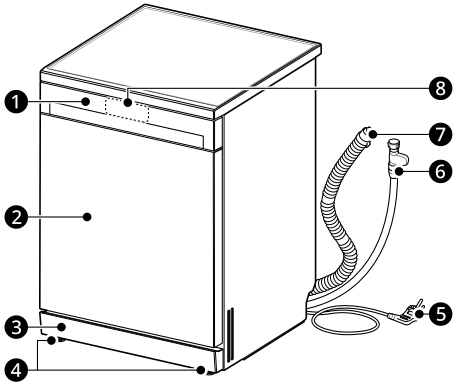
INSTALLATION

Parts and Specifications

NOTE

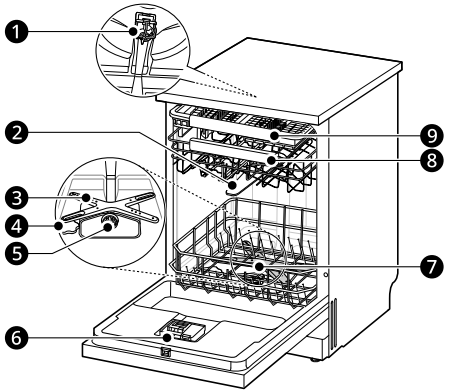
- Appearance and specifications may change without notice to improve the quality of the appliance.

Front View



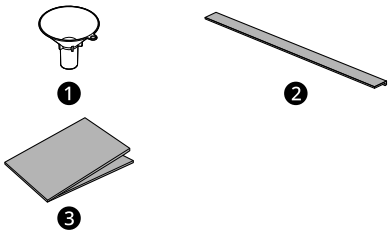
❶ Control Panel & Door Handle
❷ Front Cover
❸ Lower Cover
❹ Levelling Feet
❺ Power Cord
❻ Water Supply Hose
❼ Drain Hose
❽ Front Time Indicator

Interior View



❶ Top Wash Impeller
❷ Upper Spray Arm
❸ Lower Spray Arm
❹ Salt Dispenser Cap
❺ Filtration System
❻ Detergent and Rinse Aid Dispenser
❼ Lower Rack
❽ Upper Rack
❾ Cutlery Rack

Accessories



❶ Funnel

❷ Noise Strip*1

❸ Moisture Barrier Tape (Aluminum tape)

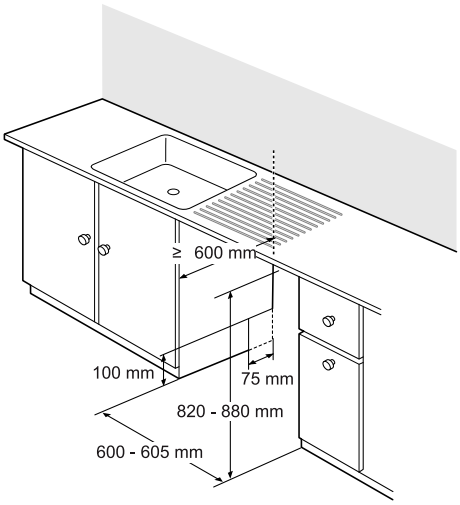
*1 Noise strips are provided: Lower - 1 EA, Front - 1 EA

Specifications

Model	DFGF624*
Power Supply	220 - 240 V~, 50 Hz
Dimension (Width X Height X Depth)	600 mm X 850 mm X 600 mm
Product Weight	Approx. 40 kg
Max. Capacity	14 Place Settings
Permissible Inlet Water Pressure	0.05 - 1.0 MPa
Power Consumption	1700 - 2100 W

Preparing Cabinet Opening

Choosing the Proper Location



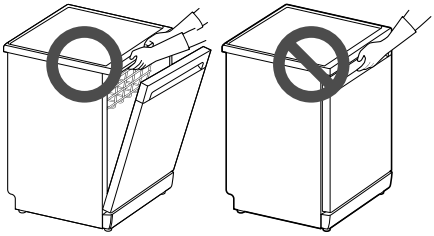
- Cut out for hoses and electrical cables on either side. (Approximately 100 mm X 75 mm)
- Select a location as close to the sink as possible for ease of connection to the water and drain pipes. To ensure drainage, the appliance should not be installed more than 1 metre away from the sink.
- If the appliance is installed in a corner, allow clearance of at least 50 mm between the appliance and an adjacent cabinet or wall.
- Before sliding the appliance into the installation opening, all necessary height adjustments should be made using a flat-blade screwdriver.

⚠ CAUTION

- Any bare wood surrounding the appliance should be sealed with a waterproof paint or sealant to prevent it from swelling.
- Install the appliance on a flat and stable area. Do not place any objects in-between the floor and base or leg of the appliance.

NOTE

- This installation must be conducted by qualified service personnel to ensure it has been installed correctly.
- Do not pull or lift the appliance using the handle; doing so can damage the door and hinges. Open the door and grab the body frame and the top front opening of the tub to move or lift the appliance.



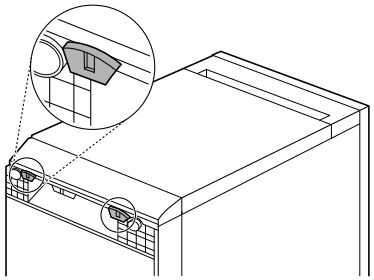
- Do not push the door of the dishwasher with knees.



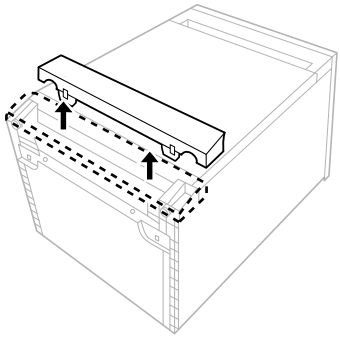
Attaching the Strip to the Appliance Base

To reduce noise attach the strip to the appliance base.

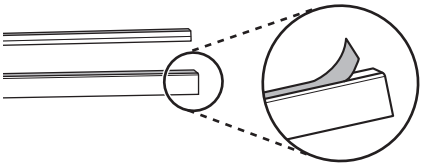
1 Lay down the appliance and pull on both the hooks at the bottom of the lower cover.



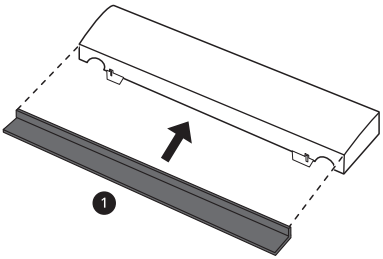
2 Pull on the lower cover to remove it.



3 Remove the double-sided tape from the lower and front strips.

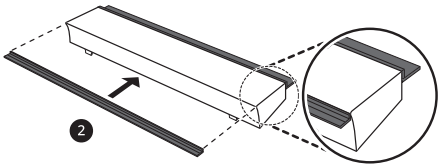


4 Attach the black coloured lower strip ❶ to the bottom of the lower cover.

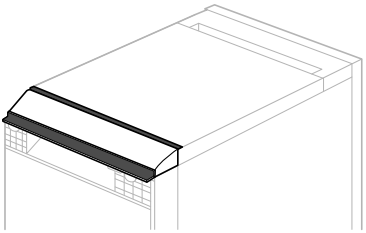


5 Attach the black coloured front strip ❷ to the top of the lower cover.

- The length of the front strip is longer than the lower cover. Attach the front strip so that the overhang is equal on both sides of the lower cover.



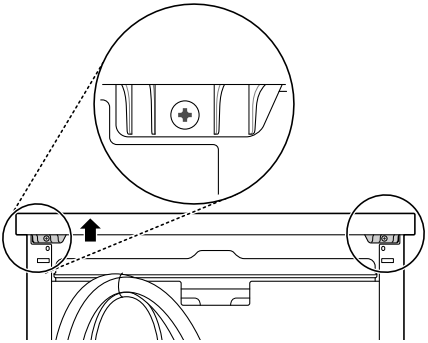
6 Attach the lower cover with the strip onto the appliance.



Removing the Top Cover

If the height of the opening is below 850 mm, follow these instructions.

1 Remove the 2 screws on the back.



2 Pull the top cover backwards after removing the two screws and then lift it up to remove it.

Installing Moisture Barrier Tape

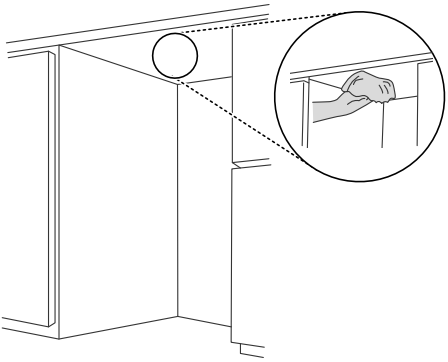
When the appliance is installed without the top cover, the counter top underside may be damaged by steam or condensation when the door is opened.

Install the moisture barrier tape to the underside of counter top to protect the counter top from condensation when the appliance opened.

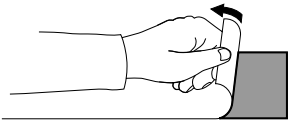
NOTE

- Moisture barrier tape is included in the manual assembly bag.
- If the counter top is made of granite or waterproof materials, the moisture barrier tape is not required.
- Condensation may occur on the underside or along the front edge of the counter top when the room temperature is low.

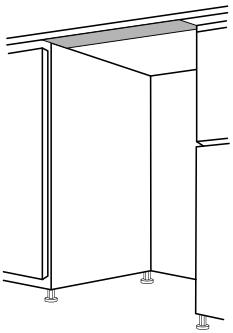
1 Clean and dry the underside of the counter top on which the tape will be attached.



2 Remove the protective film from the tape.



3 Install the tape to the underside of the counter top.



Levelling the Appliance

Checking the Level

Levelling the appliance prevents unnecessary leakage and poor washing. Check whether the appliance is perfectly level after installation.

- If the appliance rocks when pushing the top of the appliance diagonally, adjust the feet again.

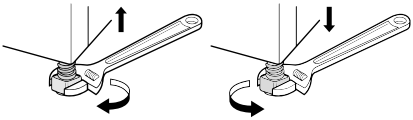
NOTE

- When the appliance is correctly leveled, there should be no slant, stickiness or rubbing sound when the door is opened.

Adjusting and Leveling the Appliance

When the appliance is not perfectly level, turn the adjustable feet until the appliance no longer wobbles.

- Turn the adjustable feet clockwise to raise or turn the adjustable feet counterclockwise to lower from front-to-back, side-to-side and corner-to-corner.



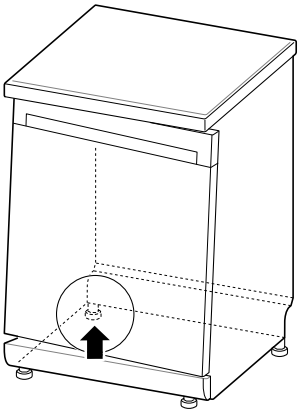
NOTE

- Place the appliance on a solid, level floor.
- Do not install the appliance on an elevated surface.

Case 1. The Door is Slanted to the Right

1 Unscrew (counter-clockwise) the rear left leg and correct the level.

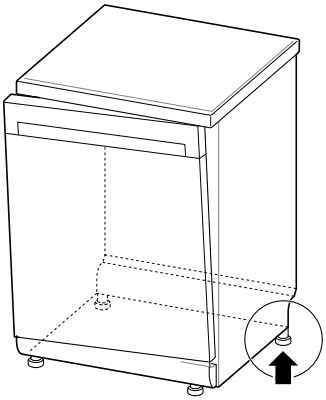
2 Check the opening of door and repeat if necessary until the door opens and closes properly.



Case 2. The Door is Slanted to the Left

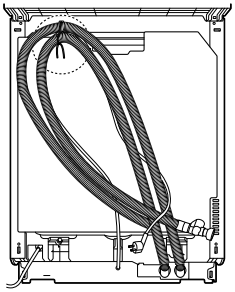
1 Unscrew (counter-clockwise) the rear right leg and correct the level.

2 Check the opening of door and repeat if necessary until the door opens and closes properly.

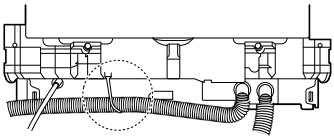


Adjusting the Inlet/Outlet Hoses Before Loading the Appliance

1 A drain hose is secured to the appliance with a retaining wire. Disconnect the water supply hose.



2 Tie the outlet hose to the tab, after securing the hose, carefully insert the appliance into position.



Installing the Drain Hose

If the end of the drain hose does not fit to the drain line, use a drain extension kit (optional) that is resistant to heat and detergent.

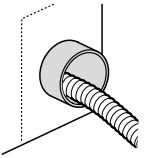
- This should be available from a plumbing shop or a hardware store.

Connection to the Waste Spigot

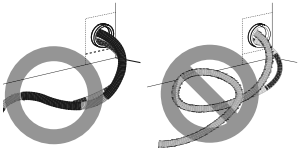
Check the waste spigot when initially installing. An F52 error can occur when the waste spigot below the sink is not drilled out properly. To connect the drain hose, carefully drill out at least a 15 mm diameter hole in the waste spigot before connecting and securing.

⚠ CAUTION

- Make sure that plastic debris is not remaining inside of spigot after it has been drilled out.
- Do not attempt to open the waste hole with a screwdriver and hammer. This will induce debris to become stuck and cause a malfunction.
- Caution should be taken when passing hoses through Cabinetry holes as they may have sharp edges and could damage the hoses. Smooth or sand edges to avoid damaging the drain or inlet hoses before installing them.



- Make sure that the line is not kinked or sharply bent. Bending or kinking hoses during installation can cause a drain malfunction.

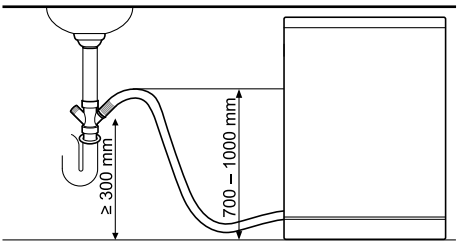


- Make sure the drain hose is straight before feeding the end of it through the hole for the water supply.

To prevent siphoning, one of the following methods must be used.

Method 1

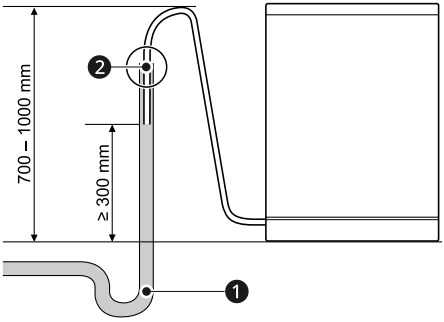
When the drain hose is connected to a waste spigot, the hose must be looped up to the underside of the bench top and secured.



Method 2

When the drain hose is connected to a separate standpipe ❶, it is essential that an airtight connection ❷ be made. If not, it can induce odours.

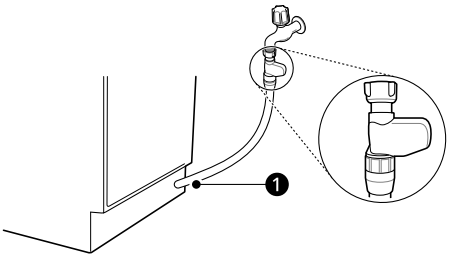
- Standpipe diameter is at least 40 mm.



Preparing Water and Electrical Connections

Connecting the Hose to the Water Tap

Connect the water supply hose ❶ to the water tap.

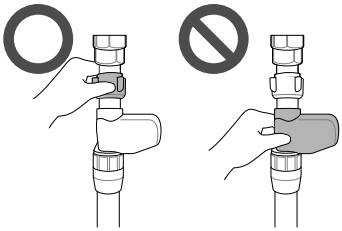


⚠ WARNING

- Do not shorten or damage the water supply hose as it contains electrical wires and components. It can not be detached or removed from the appliance for installation purposes.
- It is important that the water supply hose not be tampered with, cut, disassembled, pulled, or kinked. It contains electrical wiring inside and if damaged, can cause an electrical hazard.

⚠ CAUTION

- Only use the threaded nut of the water supply hose to tighten it to the tap.
- Do not twist or kink the water supply hose when connecting it to the tap.



- This appliance may be fed with either hot or cold water. If the water connection can not be maintained below 65ºC, the appliance must be connected to cold water.
- Make sure that the line is not kinked or sharply bent.
- Do not use any mechanical device to tighten the inlet valve's fitting to the tap. Hand tighten with the aid of a soft cloth only if necessary. Overtightening the fitting to the tap can cause damage to the nut and tap and result in a water leak.

NOTE

- Before connecting the water supply hose to the tap, turn on the tap to flush out foreign substances (dirt, sand or sawdust) in the water lines. Let water drain into a bucket.
- It takes about 3 – 4 minutes for the first supply water.

Routing Electrical Wiring

Connect the appliance to an earthed socket in accordance with the current wiring regulations, protected by a minimum 15 amp circuit breaker or time delay fuse.

Wiring must be two wires with earth.

The power cord should not be positioned behind the appliance but within 1.2 metres of the side so that the plug is easily accessible.

⚠ WARNING

- For personal safety, remove house fuse or open circuit breaker or switch off power plug before installation.
- Do not use an extension cord or double adapter.
- The plug must be plugged into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.
- Repairs to the appliance must only be carried out by qualified service personnel. Repairs carried out by inexperienced persons may cause injury or serious malfunctioning. Contact our local service centre.
- Connect to a properly rated, protected, and sized power circuit to avoid electrical overload.

Final Installation Check

Testing the Dishwasher

1 Turn on electrical power.

2 Turn on house water supply.

3 The door should open and close smoothly and without harsh noises, if the unit has been levelled correctly.

4 Run the appliance on a **1 Hour** cycle to verify proper operation and check for leaks.

OPERATION

Operation Overview

Using the Appliance

1 **Open the door and press the Power button.**

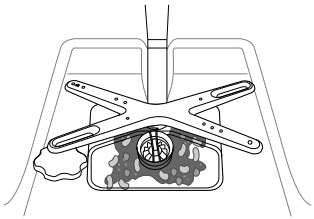
- The unit will turn on.

2 **Check that there is rinse aid and dishwasher salt present.**

- Refill the rinse aid and the salt, if the corresponding icons illuminate. For more information, refer to **Refilling** section.

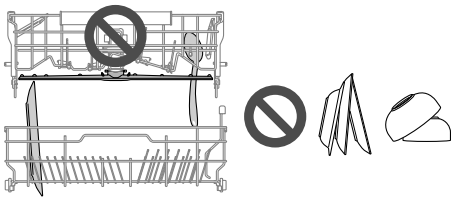
3 **Check the filters.**

- Always clean the filter either after a wash or before a wash so that it does not impair the washing results.



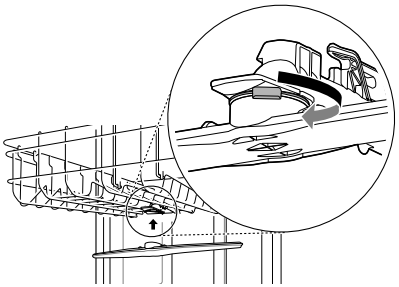
4 **Load the dishes in the rack.**

- Make certain that no dishes or utensils are in the path of the spray arms.
- Do not place one dish on top of another.



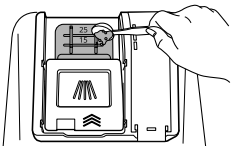
5 **Ensure the spray arms can unobstructedly rotate.**

- Ensure that the upper spray arms and the lower spray arms rotate well. Remove the spray arm and clean it if it does not rotate.



6 **Add the proper amount of detergent powder to the dispenser.**

- If using Tablets, they can simply be placed directly on the base of the tub, or on the lower part of the inner door.



7 **Set and start the programme.**

⚠ WARNING

- Do not load any items in upper rack when the lower rack is pulled out and loaded. Failure to do so may result in injury as the appliance could become unbalanced and topple over.
- Push the rack in all the way.
- Empty the lower rack first and then the upper one. It will avoid water dripping from the upper rack onto the dishes below.

⚠ WARNING

- Do not open the door during operation or right after it has completed the wash cycle as the steam may cause scalding as the door is opened.

NOTE

- Never use liquid dishwashing detergent in the appliance.
- It is not recommended to rinse the dishes manually before operating the dishwasher because it increases water and energy consumption.
- Washing tableware in a household dishwasher usually consumes less energy and water in the use phase than hand dishwashing when the household dishwasher is used according to the manufacturer's instructions.
- Loading the household dishwasher up to the capacity indicated by the manufacturer will contribute to energy and water savings.

Before Using

This model has a water softener to soften hard water.

NOTE

- The appliance can be used without dishwasher salt if not required, however, the softening level needs to be set to OFF so that the icon does not remain lit.
- In order to provide satisfactory rinsing results, the appliance requires soft water, i.e., containing little or no lime, otherwise water stains will be left behind on the dishes and inside the appliance.
- If the tap water exceeds a certain level of hardness, it must be softened, i.e., decalcified. This is achieved by adding dishwasher salt to the water softener inside the appliance. The required amount of the salt is set up according to how hard tap water is.

Checking Softening Level

Method 1

1 Check the water hardness in your area. The water utility company can help you with this.

2 Set the softening system level of the appliance according to the softening level.

Method 2

You can check water hardness by using the test strip included in the product.

1 Immerse all reaction zones of the test strip for about a second. Do not in running water.

2 Shake off excess liquid from the strip and wait for 1 minute.

3 Check the water hardness colour from the strip. Refer to the wrapper.

Water Hardness Table

Water Hardness							Softening level	Ratio*1
ppm	°d	°e	°f	mmol/l (Ca+Mg)	mg/l (Ca)	Range		
0	<4	<5	<7	<0.7	<29	Soft	OFF (H0)	-
75	4 - 7	5 - 9	7 - 13	0.7 - 1.3	29 - 50		H1	1:24
125	7 - 14	9 - 17.5	13 - 25	1.3 - 2.5	50 - 100		H2	1:7
250	14 - 21	17.5 - 26	25 - 38	2.5 - 3.8	100 - 150		H3	1:4
375	>21	>26	>38	>3.8	>150	Hard	H4	2:1

*1 The number of water softerner regeneration(s)*2: The number of wash cycle(s)*3

*2 A water softner regeneration takes place at the end of a main wash operation according to the **Eco** programme.

*3 A wash cycle consists of 4 operations(Pre-wash, Main wash, Rinse, Heating rinse) according to the **Eco** programme.

Setting the Water Softening System

For effective washing results, adjust the setting corresponding to the hardness level of water used in water supply. The water softener has 5 adjustment levels, and the appliance is programmed at the factory for a softening level of H2. You can check the default setting value and adjust it in the following steps:

1 Ensure the appliance is off.

2 Press **Power** and **Extra Rinse** button simultaneously.
- Enters **Option Setting Mode**.

3 Press the **Extra Rinse** button until "S04" appears to access the softening settings. Press the **Extra Dry** button, and then set up the intended step.
- Scope of setting value is OFF to H4.

4 Press the **START** button to save the setting.
- The power turns off after saving.

NOTE

- The **Salt Refill** icon turns on in the display if dishwasher salt is not in the softening system.
- If the softening level is set to OFF, no icon indicates in spite of no salt.

Filling with Dishwasher Salt

The salt dispenser must be filled with salt before starting the washing programme. In case of insufficient salt, the **Salt Refill** icon indicates on the display, unless the softening level has been set to OFF.

1 Remove the lower rack and remove the cap of the salt dispenser located on the left side of the filters.

2 Before using the appliance for the first time, it is necessary to pour 800 g of dishwasher salt and 800 mL of water at the same time if intending to use the water softener system. When refilling the salt, use the supplied funnel. Refer to **Before Using** section.



3 Refit the cap tightly.

4 Run the **Download (P01)** cycle without dishes.

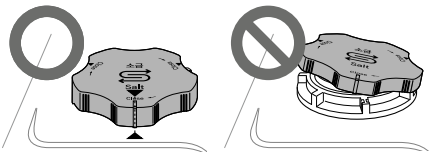
Salt Refill Cycle (800 g for each load)

	H1	H2	H3	H4
Cycles	150	40	20	7

- Cycle may vary depending on the programme, options, and salt refill amount.

⚠ CAUTION

- Do not pour any detergent in the salt dispenser. It will cause a malfunction.
- Wipe off any spilled salt around the salt dispenser cap. Saline solution that runs into can cause corrosion in the tub and to the dishwasher load.
- Seal the cap properly by aligning it horizontally and turning it clockwise. A loosely fitted cap may cause the saline solution to leak from the salt dispenser into the tub and cause corrosion.
- After refilling the dishwasher salt, a wash programme should be operated without dishes, as any spilled salt inside the appliance may cause rust or damage to the appliance if the left unwashed.

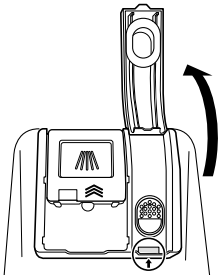


Adding Rinse Aid

The **Rinse Aid Refill** icon appears in the display when more rinse aid is needed.

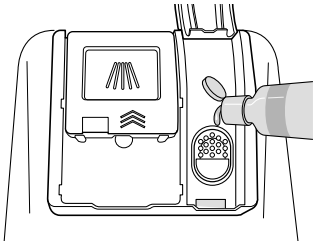
The use of rinse aid is recommended to prevent water spots on dishes and to enhance drying results.

1 Open the rinse aid lid by lifting up the flap.



2 Add a liquid rinse aid to the maximum fill level.

The rinse aid should be settled in the dispenser while filling, or air bubbles may result in poor drying results.



3 Close the lid to lock the dispenser. Rinse aid is dispensed automatically during the final rinse cycle.

⚠ CAUTION

- If the rinse aid lid is not closed properly, a large amount of rinse aid will release into the tub and cause washability problems.
- If rinse aid flows out of the dispenser, wipe it off. Otherwise many suds can occur and stain the dishwasher.

NOTE

- Only use liquid rinse aid in the appliance.
- Do not overfill the rinse aid dispenser.
- Too much or too little rinse aid can inhibit the drying results.

NOTE

- The **Rinse Aid Refill** icon will illuminate when more rinse aid is needed.
- If you notice cloudy spots, streaks or water marks on the glassware after washing, increase the setting level.
- Setting the control too high can cause foaming, which will cause poor wash results.
- If the glass is smeared or foam is present on the bottom, decrease the level setting.
- Setting the rinse aid control too low can cause spotting and streaking on dishes and poor drying results.

Setting the Rinse Aid Level

The dispenser has five adjustment levels. The default programme is rinse aid level 3. This can be checked and altered by using the buttons on the control panel.

1 Ensure the appliance is off.

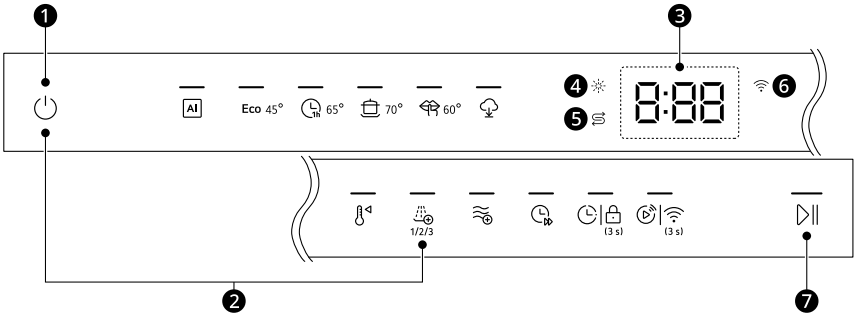
2 Press **Power** and **Extra Rinse** button simultaneously.
- Enters **Option Setting Mode**.

3 Press the **Extra Rinse** button until "S03" appears to access the Rinse Aid Level settings. Press the **Extra Dry** button, and then set up the intended step.
- Scope of setting value is OFF to r4.

4 Press the **START** button to save the setting.
- The power turns off after saving.

Control Panel

Control Panel Features



❶ Power

- Press **Power** button to turn power on and off.
- After the cycle is complete, the power automatically turns off for purposes of safety and economy.
- If there is a power surge, power outage, or disruption of any kind, power is automatically turned off for safety.
- When power is connected again, it will turn on automatically and resume the cycle.
- Press and hold **Power** button for 3 seconds to activate the cancel function.
- The touch-sensitive model on the top cannot be selected once the operation has started and the door is closed.

❷ Option Setting Mode

- Various options of the product can be set through **Option Setting Mode**.
- For details on each option in option setting mode, refer to **Using the Option Setting Mode**.

❸ Digital Display

- The digital display on the control panel shows the ESTIMATED cycle time. When the cycle and options are selected, the display shows the total estimated time to complete those selections. During operation, the display shows the remaining estimated operating time.
- The estimated time shown on the display does not include delay times for heating water, etc.
- If **Delay** is selected, the display shows the delay time in hours.
- The **AI** cycle time may vary depending on the soil level of your load.

❹ Rinse Aid Refill Icon

- This icon flashes when the rinse aid level is low. The LED automatically shuts off when the rinse aid is refilled or the level is set to OFF.

❺ Salt Refill Icon

- This icon flashes when the salt level is low. The LED automatically shuts off when the salt is refilled or the level is set to OFF.

❻ Wi-Fi

- When the appliance is connected to the internet through a home Wi-Fi network, this icon illuminates.

❼ START

- Press **START** button and close the door to operate the appliance.
- If **START** button is not pressed to start the cycle within 4 minutes, the power will automatically turn off.

Wash Cycles

Wash Cycles

AI



Automatically adjusts the wash time and temperature using AI-based learning.

- The displayed cycle time is an estimated duration based on the highest soil level, including the pre-wash.
- During the wash and rinse cycles, the dishwasher senses the soil level and optimizes its operation accordingly. The cycle time may be reduced each time the soil level is assessed.

Eco

Eco 45°

Use this programme to clean normally soiled dishes. This is the most efficient programme in terms of combined energy and water consumption.

1 Hour



This cycle will clean moderately soiled dishes.

Intensive



This cycle is for heavily soiled dishes and dishes with hardened on soil. This cycle defaults to the strongest spray intensity and uses it to wash heavily soiled dishes.

Silent



This cycle washes for a longer period of time to ensure quiet operation.

Download



Use a dedicated cycle downloadable via Wi-Fi. (depending on model).

NOTE

- Only the cycle code for the currently downloaded cycle appears on the appliance. See the smartphone app for cycle codes, names, and more information about the available cycles.
  - Default Cycle: Upper Only (P01), Machine Clean (P13), Glass and Wine Glasses (P03)

Options and Extra Functions

Select the desired cycle button and then select the options for that cycle.

Options and Extra Functions

High Temp.



Raises the main wash or heating rinse temperature to improve the hygienic and the cleaning level.

- Wait for the appliance to completely cool down before opening the door.

Extra Rinse



This option improves rinsing performance by increasing the number of extra rinse cycles.

- This option is helpful if foam remains after washing, depending on the type of detergent or fabric softener used.

- Press the **Extra Rinse** button to set the number of additional rinse cycles.

Extra Dry

Increasing the rinse temperature and extending the drying time improves drying performance.

- This option is automatically selected when the rinse (rinse/dry aid) level is set to OFF or when a wash cycle is selected while the rinse refill LED is flashing.
- By pressing the **Extra Rinse** button repeatedly, you can select between 1 and 3 additional wash cycles. The adjusted programme duration is shown on the display. Pressing the button a fourth time deactivates the function.

Time Saver

This option reduces the wash time for the selected wash cycle. Do not use this cycle with heavily soiled dishes.

Delay

This feature delays the start of a selected cycle. Each time the **Delay** button is pressed, the delay time increases by an hour. The delay time can be set from 1 to 12 hours, in one-hour increments.

- To cancel this feature, turn the power off.
- To change the cycle and cycle option, open the door and then select another cycle and cycle option. The countdown will continue.

Remote

Use a smartphone to control your appliance remotely. You can also monitor your cycle operation so you know how much time is left in the cycle. Once this function is enabled, you can start a cycle from the **LG ThinQ** application.

Control Lock

This feature helps prevent settings from being changed during a cycle. Selecting this feature locks all of the buttons, except for the **Power** button, on the control panel. This feature does not lock the door.

- On models with the external display, while a cycle is running, press and hold for 3 seconds to activate or deactivate this feature. On models with a concealed display, open the door during operation and follow the same instruction.
- When this feature is activated, the display code CL will show on the display.
- To start a new cycle, deactivate this feature.
- This feature can be set at any time by turning on the appliance.

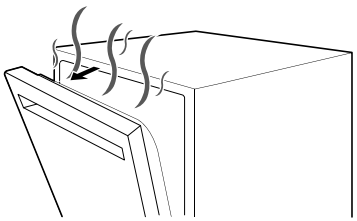
Wi-Fi

Press and hold the **Wi-Fi** button for 3 seconds to connect to the network. Refer to **SMART FUNCTIONS** sections for detailed information about this feature.

Auto Open Dry

The **Auto Open Dry** feature enhances the drying performance by opening the door automatically during the drying stage within the displayed program time. For optimum drying results wait until the program ends before unloading the dishwasher. The program is fully complete when the display shows "End". The door opening time varies depending on the program selected.

- If the dishwasher door is left open after unloading, the dishes dry naturally.
- The **Auto Open Dry** function activates only when the product's internal temperature is within the safe range.



⚠ WARNING

- Be careful as the hot air and steam are released when the door opens and it can cause burns.
- Do not touch the inside of the product while this function is in operation. This may cause burns, serious injury, or malfunction.

⚠ CAUTION

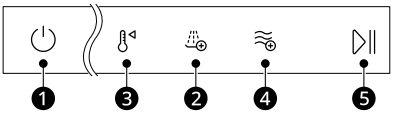
- Make sure there are no obstacles in front of the product door when it opens automatically, as this may lead to damage or a malfunction.

NOTE

- Even after the door opens automatically, moisture may remain on the bottom of the bowl or inside the product.
- The Ending Melody indicates that the wash cycle is finished. For better drying, do not remove the dishes immediately after the end of the sound. Instead, let them dry naturally for at least 30 minutes.
- Natural drying may take 1 to 3 hours depending on the surrounding temperature, humidity, and the material of the dishes.
- Due to the nature of the plastic material, moisture may remain even after using rinse aid.

Using the Option Setting Mode

You can set various options and extra functions to meet your individual needs.



1 Ensure the appliance is off.

2 Press the **Power** ❶ and **Extra Rinse** ❷ buttons at the same time to enter the Settings Mode.

3 Press the **Extra Rinse** ❷ button to move to the next function, and press the **High Temp.** ❸ button to move to the previous function.

4 Press the **Extra Dry** ❹ button. The current levels are displayed. Select the desired level to set it.

5 Refer to the table below. The setting changes in the following sequence:

Display	Function	Step	Indication
S01	Product Information	Total number of uses	Total number of uses
S03	Rinse Aid Level	Off	OFF
		1	r1
		2	r2
		3	r3
		4	r4
S04	Softening Level	Off	OFF
		1	H1
		2	H2
		3	H3
		4	H4
S05	Volume	Off	OFF
		Low	Lo
		High	HI
S07	Ending Melody	Off	OFF
		On	On
S09	Display Brightness	Darker	Lo
		Bright	HI

Display	Function	Step	Indication
S13	Auto Course Setup	Off	OFF
		Use previous settings	L1
S17	Reset Settings	-	rSt

6 Press the **START** ❺ button to save changes.

NOTE

- Remote Control Mode can only be set in the **LG ThinQ** app.
- See the **Softening Level** and **Rinse Aid Level** for more detailed information about these settings.
- Volume
  - Sets the volume of the beep/melody that sounds at the end of the programme; when a button is pressed, in the event of an incorrect operation or a fault.
- Ending Melody
  - Enables or disables the melody that plays when the program closes.
- Auto Course Setup
  - If you select Off, it will be set to General and No Options.

Programme Table

Programme Guide

On DFGF624* Models

Programme	Soil Level	Wash		Rinse		Dry
		Pre-wash	Main wash	Rinse	Final rinse	
AI	All levels	●	● (56 - 72 ℃)	●	● (60 ℃)*1 (75 ℃)*2	●
Eco	Moderate	X	● (45 ℃)	●	● (42 ℃)*1 (75 ℃)*2	●
1 Hour	Moderate	X	● (65 ℃)	●	● (60 ℃)*1 (75 ℃)*2	●
Intensive	Heavy	●	● (70 ℃)	●	● (65 ℃)*1 (75 ℃)*2	●
Silent	Moderate	●	● (60 ℃)	●	● (60 ℃)*1 (75 ℃)*2	●

*1 **Extra Dry** feature is off.

*2 **Extra Dry** feature is on.

NOTE

- When the **Extra Dry** feature is activated, the heating rinse temperature may vary.

Regulation for Europe(On DFGF624* Models)

Programme	Water Consumption (L)	Energy Consumption (kWh)	Duration (min)
AI	13.1 - 16.7	1.04 - 1.41	90 - 146
Eco	9.0	0.54	267
1 Hour	11.0	1.00	60
Intensive	16.0	1.30	127
Silent	13.6	1.00	159

NOTE

- The consumption data may differ according to selected options and cycles.
- Running time may vary according to the water temperature, ambient temperature, water pressure and voltage.
- Information that the values given for programmes other than the eco programme are indicative only.

NOTE

- Regulation EU 2019/2022 is related to the Energy Efficiency classes by Regulation EU 2019/2017.
- Scan the QR code on the energy label supplied with the appliance, which provides a web link to the information related to the performance of the appliance in the EU EPREL database. Keep the energy label for reference together with the owner's manual and all other documents supplied with the appliance.
- The model name can be found on the rating label of the appliance. Open the door and look at the right side of the door.
- To find the same information in EPREL, visit https://eprel.ec.europa.eu and search using the model name.

Available Options

NOTE

- The **Delay** option can be selected for every washing programme in this table.

Programme	High Temp.	Extra Rinse	Extra Dry	Time Saver
AI	-	●	●	-
Eco	●	●	●	-
1 Hour	●	●	●	-
Intensive	●	●	●	●
Silent	●	●	●	●

Information for Energy Test (EN60436)

Appliance loaded in accordance with standard specifications.

NOTE

- When the salt dispenser is operated, the data below increases.
  - Water Consumption: 5 L
  - Energy Consumption: 40 W
  - Duration: 15 minutes

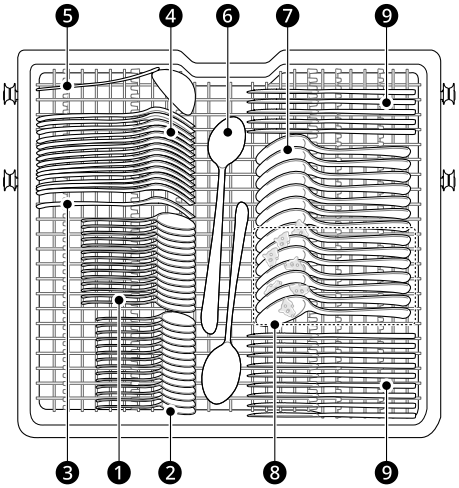
For Models with Auto Open Dry Function

- Capacity: 14 place settings
- Comparability programme: **Eco**
  - The **Eco** programme is used to assess compliance with the EU ecodesign legislation.
- Rinse Aid setting: r4
- Reference cleaner: 15 g of detergent in dispenser (13 g inside / 2 g outside)
- Height-adjustable Rack-U position: Middle
- Filter type: Manual

Loading the Dishes

- Correct loading is done in accordance with the images provided in this chapter.
- Incorrect loading may result in lower drying or cleaning performance.

Cutlery Rack



❶ Dessert Spoons(No soiling)

❷ Tea Spoons(No soiling)

❸ Serving Fork(No soiling)

❹ Forks(Egg)

❺ Gravy Ladle(No soiling)

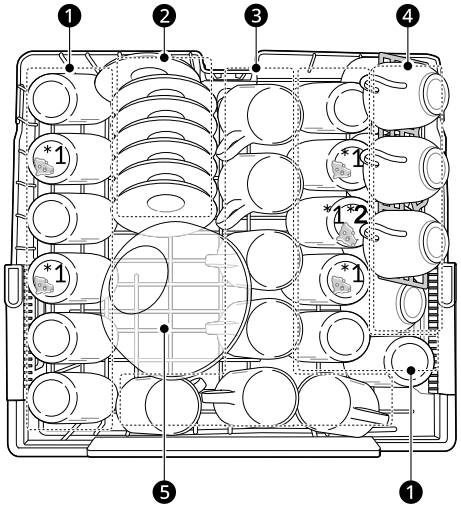
❻ Serving Spoons(No soiling)

❼ Soup Spoons(No soiling)

❽ Soup Spoons(Oat flake): 7 soup spoons are soiled.

❾ Knives(No soiling)

Upper Rack



❶ Glasses(Milk)

*1 There are 5 glasses stained with milk.

*2 Milk Glass for EN60704-2-3: 2020

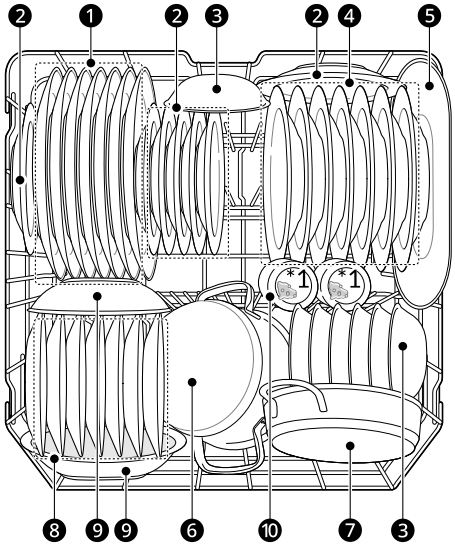
❷ Saucers(Black tea)

❸ Mugs(Black tea)

❹ Cups(Black tea)

❺ Glass bowl(Meat)

Lower Rack



❶ Dinner plates(Egg)

❷ Melamine Dessert Plates(Egg)

❸ Dessert Bowls(Oat flake)

❹ Soup plates(Oat flake)

❺ Oval Platter(Meat)

❻ Small Pot(Spinach + Margarine)

❼ Oven Pot(Meat)

❽ Dessert Plates(Spinach)

❾ Melamine Bowls(Margarine)

❿ Glasses(Milk)

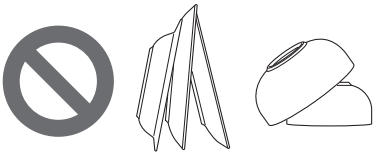
*1 There are 2 glasses stained with milk.

Loading the Dishwasher

For effective washing results, always follow the instructions.

- Remove large particles of food debris from plates including bones etc. before loading.
- Items with burnt on food should be soaked prior to loading the dishwasher.

- Deep based items should be placed upside down.
- Plastic items will not dry well, compared to other items.
- Make sure that all items do not touch each other.



Items not Suitable for Dishwashers

The combination of high water temperature and dishwasher detergents may damage certain items. Do not wash the following items.

- Copper or anodised aluminium items or tumblers
- Hand painted silver or gold leaf crockery or tumblers
- Wood or bone handled utensils and tumblers
- Iron or non rust proof utensils and tumblers
- Plastic items or tumblers which are not appliance safe
- Expensive ware such as silver, dishes with golden rings, and premium tumblers
- Fragile items such as crystal glasses or crystal tumblers

For plastic containers and tumblers with low heat resistance, verify that they are dishwasher safe or consult the manufacturer before use.

⚠ CAUTION

- Do not place pots or pans with plastic handles in the appliance as the handles may deteriorate due to the heat and detergent.
- Water proof or long lasting lipstick smudges on glasses may not be removed during the wash.

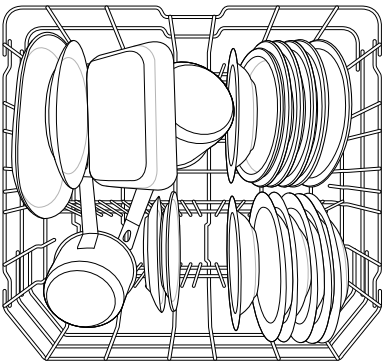
Loading the Lower Rack

Daily Use Load

The lower rack is suitable for dinner plates, soup bowls, dishes, pots, pans, lids and even a grill tray.

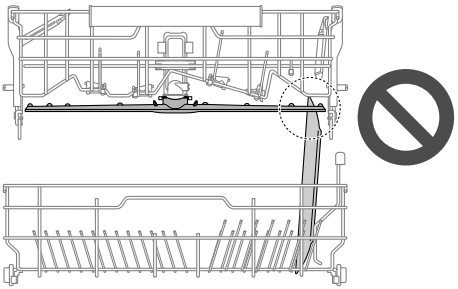
Plates should be positioned upright and facing the centre of the rack and pots, pans and large dishes must be turned upside down.

To make it easier to load larger dishes, the front row of tines can be folded down.



⚠ CAUTION

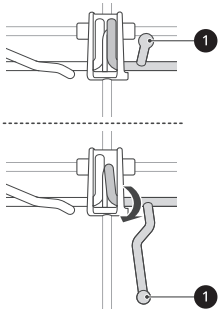
- The spray arms must not be blocked by items that are too tall or hang through the baskets. Test for free movement by manually rotating the spray arms.



Folding Down the Rack Tines

This feature is only available on some models.

Fold tines down to fit larger dishes; pull tines back up to fit smaller dishes.



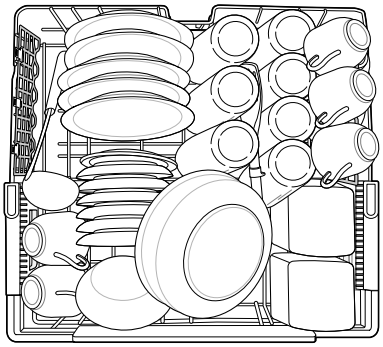
Loading the Upper Rack

Daily Use Load

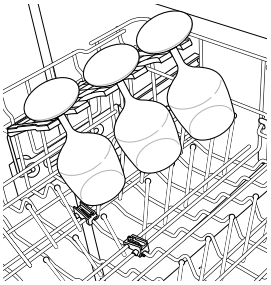
The upper rack is suitable for delicate items such as, small plates, long cutlery, cups, glasses and appliance safe plastic items.

Cups, glasses and bowls must be positioned upside down.

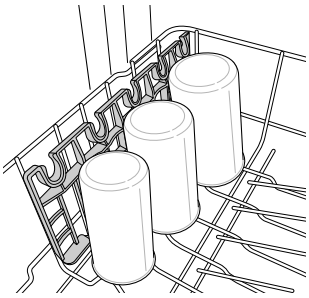
Plates should be positioned upwards with the plate.



The cup racks provide support for long stem glasses.



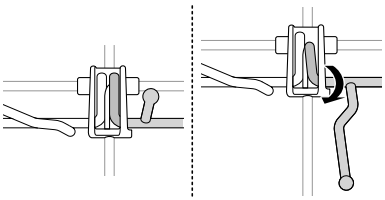
The left side row of tines can be folded down or the cup racks can be folded up out of the way for tall crockery items.



Folding Down the Rack Tines

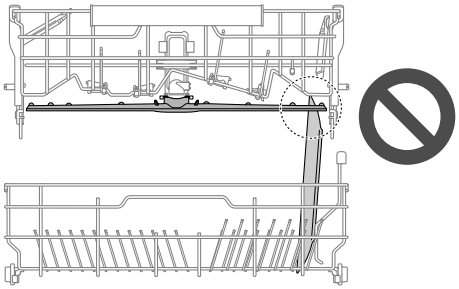
This feature is only available on some models.

Fold tines down to fit larger dishes; pull tines back up to fit smaller dishes.



⚠ CAUTION

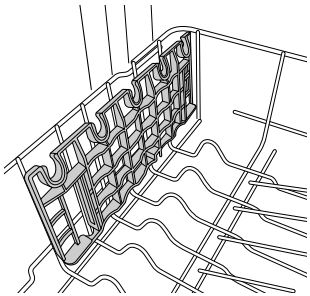
- The spray arms must not be blocked by items that are too tall or hang through the baskets. Test for free movement by manually rotating the spray arms.



Removing and Replacing Cup Rack

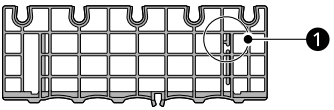
The left and right cup racks are interchangeable and can be removed.

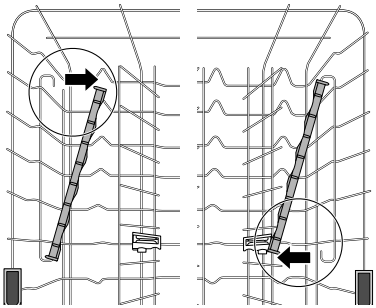
1 Slide the cup rack down into its closed position.



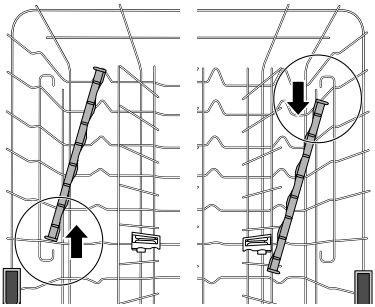
2 Locate the assembly slot ❶ on the cup rack, align the slot with the bar, and firmly pop the rack off the support bar on that side.

- The rack on the left pops free at the back. The rack on the right pops free at the front.





3 Slide the cup rack off the support bar on the opposite side.

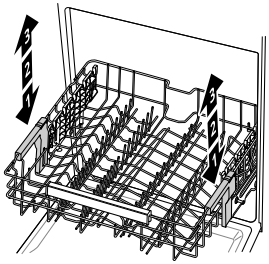


4 Follow the instructions in reverse to replace the cup rack.

Height Adjustable Upper Rack

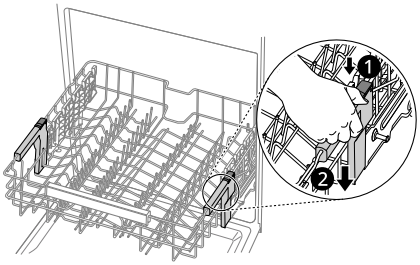
The height of the upper rack can be adjusted when you load glasses with long stems or tall crockery items.

There are three available positions for adjusting the height of the upper rack to create more space.



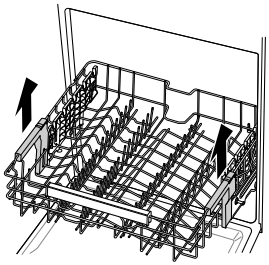
Lowering the Rack

Hold the rack at the centre of each side to support its weight. Then, push the button on each side to release the rack and lower it to the lower position.



Raising the Rack

Lift the rack at the centre of each side until the rack locks into place in the upper position. It is not necessary to lift the lock levers to raise the rack.



Possible plate size according to the upper rack position

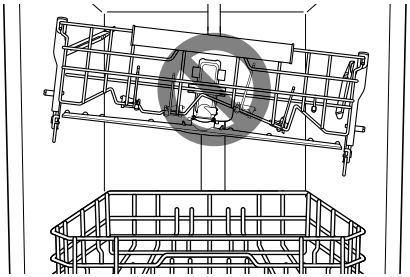
Upper Rack Position	Plate Size (mm)		
	Upper Rack		Lower Rack
	with Cutlery Rack	without Cutlery Rack	
Upper	160	210	300
Middle	190	240	270
Lower	220	270	240

⚠ WARNING

- Before adjusting, ensure the rack is empty of all dishes. Otherwise dishes may get damaged or you may get injured.

NOTE

- Raise the upper rack without pushing the buttons on each side. Pushing the buttons when raising the rack will prevent the rack from locking into position.
- To set the rack to the middle position, it may be easier to lower the rack all the way down and then raise each side of the rack individually until it clicks into place.



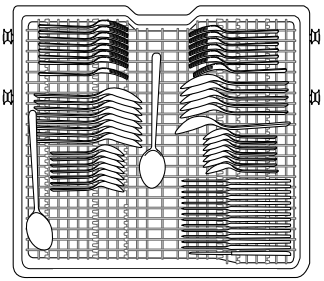
- There is a 56 mm gain in height when the upper rack is moved to the lower position.
- After adjusting the rack levels, check that the spray arms are free to rotate.

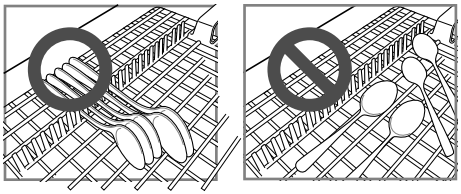
NOTE

- With the lower position of the upper rack, check if the bottom part of upper rack including spray arm is not disturbing items on the lower rack.
- When the upper rack is in the lower position, push in the upper rack first, and the lower rack later.
- Pull out the lower rack first, and the upper rack later.

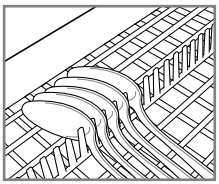
Loading the Cutlery Rack

The cutlery rack is best suited for flatware and most cooking or serving utensils. The separators on the cutlery rack help keep utensils separated to avoid damage and improve cleaning.



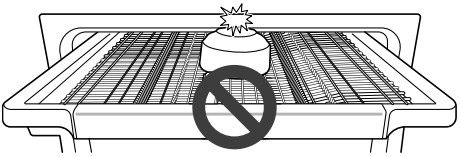


If the handles of your cutlery are too thick, then reverse the pieces so that the handles face the other direction.



⚠ CAUTION

- Do not place bowls in the center of the cutlery rack. The door may not close properly, resulting in leakage.



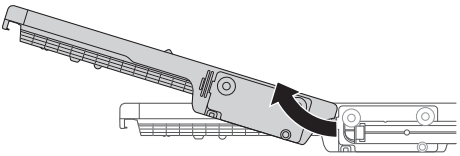
Removing the Cutlery Rack

The entire cutlery rack can be removed if more space is needed on the upper rack for larger items.

Always remove the cutlery from the rack before removing the rack.

Pull the rack out to the end of the rails. Then, lift the front of the rack so that the rollers clear the stop on the end of the rail. The rack can now be slid forward and removed from the rails.

Inserting the cutlery rack is in the reverse order.



⚠ WARNING

- Be careful when loading and unloading items with sharp edges. Load sharp knives with the blade down to reduce the risk of injury.

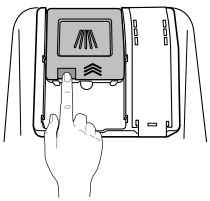
Adding Cleaning Agents

Adding Detergent to the Dispenser

- The amount of detergent needed depends on the cycle, load size, and soil level of dishes.

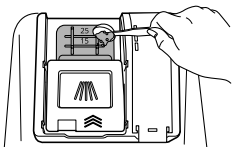
- Put detergent into the detergent compartment before starting any cycle, except the **Download (P01)** cycle.

1 Push the button on the dispenser lid to open the cover.

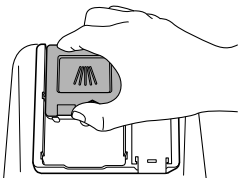


2 Add dishwashing detergent to the main wash compartment until the level is between the lines marked 15 and 25.

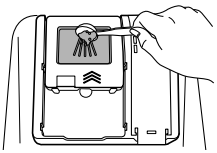
- For heavy soiling: up to the 25 g mark.
- For light soiling: up to the 15 g mark.



3 Push the detergent lid to slide the lid closed until it clicks.



4 If a prewash is desired, fill the recessed prewash compartment area on the lid with detergent.



Programme	Amount of detergent
	Main wash (dispenser)
AI	20 g
Eco	15 g
1 Hour	20 g
Intensive	20 g
Silent	20 g
Download	20 g

⚠ WARNING

- Dishwasher detergent and rinse aid contain chemical components, like all other household detergent. So, they must be kept out of the reach of children.

⚠ CAUTION

- Use only detergent intended for dishwashers. Incorrect detergent may cause the appliance to fill with suds during operation. Excess suds may reduce wash results and may cause the appliance to leak.
- To avoid damaging the appliance, do not pull up on the dispenser to close the appliance door.



⚠ CAUTION

- Only use the detergent and rinse aid that has been qualified with standard. Use of an unqualified detergent and rinse aid may present a risk of damage, corrosion, poor washing results, poor drying, and leakage.
- If too much detergent is used, too many suds can occur. It may cause leakage of suds and stain the dishes in the dishwasher.

NOTE

- Too much detergent can leave a film on dishes and in the tub, resulting in poor wash results.
- After washing, check whether the detergent was completely washed out.
- Some appliance detergent tablets may become stuck in the dispenser due to their excessive size. Tablets can be placed onto the base of the wash tub next to the filter before starting the cycle.
- Never use liquid dishwashing detergent in the appliance.

Refilling

To maintain the effective dry results, check and refill rinse aid regularly.

To maintain the effective wash results, check and refill dishwasher salt regularly.

Checking the Rinse Aid

When the **Rinse Aid Refill** icon illuminates lit, it means the rinse aid is almost empty. If necessary, refill the rinse aid dispenser.

Checking the Dishwasher Salt

After refilling the dishwasher salt, a wash programme should be operated without dishes, as any spilled salt inside the appliance may cause rust or damage to the appliance if the left unwashed.

When the **Salt Refill** icon illuminates, it means the salt is almost empty. If necessary, refill the salt dispenser.

⚠ CAUTION

- Do not add detergent or any other solution into the water softener housing other than dishwasher salt. Doing so will cause the water softening system to malfunction.

Useful Tips

Unloading the Dishwasher

- Before unload the dishes, check if the dishes cooled down to hand-warm condition.
- Empty the lower rack first and then the upper one. It will avoid water dripping from the upper rack onto the dishes below.

⚠ WARNING

- Do not pull out all full loaded racks at on time, the appliance can topple over. Unload each rack one by one.

SMART FUNCTIONS

LG ThinQ Application

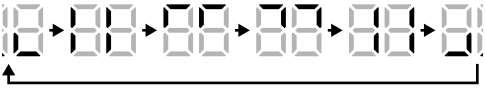
The **LG ThinQ** application allows you to communicate with the appliance using a smartphone.

LG ThinQ Application Features

Communicate with the appliance from a smartphone using the convenient smart features.

Feature Updates
Experience new features by updating the features of the product through the **LG ThinQ** application.

When a new feature is available for update, the outer segments of the digital display light up in rotation when the product is powered on.



If you see this notification, press the update notification on your smartphone to enter the Feature Update center of the **LG ThinQ** application. Select a new feature and press the Update button to proceed with the update. The progress of the update is shown in the digital display.

The status window automatically turns off when the update is successful.

NOTE

- The update may take a long time, and the product cannot be used during that time. Please proceed only when you have sufficient time.
- The update cannot proceed while the product is in use. Wait until after the cycle ends to begin the update.
- If the power is turned off during the update, the update may be interrupted and the product may become unusable.
- If the product cannot be powered on during or after the update, flip the breaker to shut off power for at least 30 seconds and then turn it back on.
- A description of the new features can be found in the application by selecting the dishwasher card and tapping the green arrow icon.
- Once updated, product features may no longer be described accurately in the owner's manual or may have different contents.

Monitoring
This function checks the current status, cycle, options running time and cycle end time for the application on a single screen.

Download
You can download new and special cycles that are not included in the basic cycles on the appliance.

Appliances that have been successfully registered can download a variety of specialty cycles specific to the appliance.

Only one cycle can be stored on the appliance at the same time.

Once cycle download is completed in the appliance, the appliance keep the downloaded cycle until a new cycle is downloaded.

Machine Clean Reminder
This function shows how many cycles remain before it is time to run the **Machine Clean** cycle.

Smart Diagnosis
This function provides useful information for diagnosing and solving issues with the appliance based on the pattern of use.

Settings
Allows you to set various options on the appliance and in the application.

Push Alert
When the cycle is complete or the appliance has problems, you have the option of receiving push notifications on a smartphone. The notifications are triggered even if the **LG ThinQ** application is off.

NOTE

- In the following cases, you must update the network information for each appliance in the **LG ThinQ** application under **Device Cards ⟶ Settings ⟶ Change Network**.
  - wireless router is changed

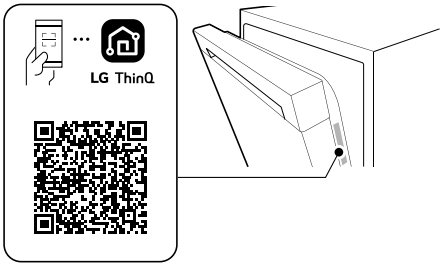
NOTE

- wireless router password is changed
- Internet service provider is changed

- The application is subject to change for appliance improvement purposes without notice to users.
- Functions may vary by model.

Installing LG ThinQ Application and Connecting an LG Appliance

Scan the QR code attached to the product using the camera or a QR code reader application on your smartphone.



NOTE

- To verify the Wi-Fi connection, check that icon on the control panel is lit.
- The appliance supports 2.4 GHz Wi-Fi networks only. To check your network frequency, contact your Internet service provider or refer to your wireless router manual.
- **LG ThinQ** is not responsible for any network connection problems or any faults, malfunctions, or errors caused by network connection.
- The surrounding wireless environment can make the wireless network service run slowly.
- If the distance between the appliance and the wireless router is too far, the signal strength becomes weak. It may take a long time to connect or installation may fail.
- If the appliance is having trouble connecting to the Wi-Fi network, it may be too far from the router. Purchase a Wi-Fi repeater (range extender) to improve the Wi-Fi signal strength.
- The network connection may not work properly depending on the Internet service provider.
- The Wi-Fi connection may not connect or may be interrupted because of the home network environment.
- The appliance cannot be connected due to problems with the wireless signal transmission. Unplug the appliance and wait about a minute before trying again.
- The wireless network name (SSID) should be a combination of English letters (A-Z) and numbers (0-9). Do not use special characters.
- Smartphone user interface (UI) may vary depending on the mobile operating system (OS) and the manufacturer.
- If the security protocol of the router is set to **WEP**, you may fail to set up the network. Please change it to other security protocols (**WPA2** is recommended) and connect the product again.

Deactivating Network Connection

On your smartphone, disconnect to your home Wi-Fi network.

1 Run the **LG ThinQ** application.

2 Select and touch the **Dishwasher** in the application.

3 Select and touch the **Delete Product** on the settings menu to disconnect it.

Radio Equipment Specifications

Type	Operating Frequency Range	Output Power (Max.)
Wireless LAN	2400 MHz - 2483.5 MHz	< 100 mW
Bluetooth*1		

*1 This feature is only available on some models.

For consideration of the user, this device should be installed and operated with a minimum distance of 20 cm between the device and the body.

Declaration of Conformity

CE

Hereby, LG Electronics declares that the radio equipment type Dishwasher is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address:

http://www.lg.com/global/support/cedoc/cedoc#

Declaration of Conformity for UK

UKCA

Hereby, LG Electronics declares that the radio equipment type Dishwasher is in compliance with the relevant statutory requirements. The full text of the UK declaration of conformity is available at the following internet address :

http://www.lg.com/global/support/cedoc/cedoc#

UK Importer : LG Electronics U.K. Ltd, Velocity 2, Brooklands Drive, Weybridge, KT13 0SL

Open Source Software Notice Information

To obtain the source code that is contained in this product, under GPL, LGPL, MPL, and other open source licenses that have the obligation to disclose source code, and to access all referred license terms and copyright notices, please visit https://opensource.lge.com.

LG Electronics will also provide open source code to you for a charge covering the cost of performing such distribution upon email request to opensource@lge.com.

This offer is valid to anyone in receipt of this information for a period of three years after our last shipment of this product.

Smart Diagnosis

This feature is only available on some models.

Use this feature to help you diagnose and solve problems with your appliance.

NOTE

- For reasons not attributable to LGE's negligence, the service may not operate due to external factors such as, but not limited to, Wi-Fi unavailability, Wi-Fi disconnection, local app store policy, or app unavailability.
- The feature may be subject to change without prior notice and may have a different form depending on where you are located.

Using LG ThinQ to Diagnose Issues

If you experience a problem with your Wi-Fi equipped appliance, it can transmit troubleshooting data to a smartphone using the **LG ThinQ** application.

- Launch the **LG ThinQ** application and select the **Smart Diagnosis** feature in the menu. Follow the instructions provided in the **LG ThinQ** application.

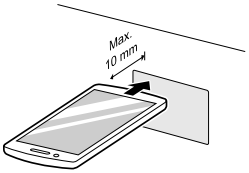
Using Audible Diagnosis to Diagnose Issues

Follow the instructions below to use the audible diagnosis method.

- Launch the **LG ThinQ** application and select the **Smart Diagnosis** feature in the menu. Follow the instructions for audible diagnosis provided in the **LG ThinQ** application.

1 Press the **POWER** button to turn on the appliance.
- Do not press any other buttons.

2 Place the mouthpiece of your smartphone in front of the display located on the control panel.



3 Press and hold the **Download** button for 3 seconds or longer while holding the smartphone mouthpiece to the logo until the data transfer is complete.
- Keep the smartphone in place until the data transfer has finished. Time remaining for data transfer is displayed.

4 After the data transfer is complete, the diagnosis will be displayed in the application.

NOTE

- For best results, do not move the smartphone while the tones are being transmitted.

Customer Care and Service

Contact an LG Electronics customer information centre.

- To find an LG Electronics authorised service personnel, visit our website at www.lg.com and follow the instructions found there.
- Self-repair is not recommended as it could further damage the device and void the guarantee.
- Spare parts referenced in Regulation 2019/2022 are available for a minimum duration of 10 years.

MAINTENANCE

To maintain performance and prevent problems, check the outside and inside of the appliance, including filters and spray arms regularly.

⚠ WARNING

- When cleaning the outside and inside of the appliance, do not use any solvent based solutions such as thinners or acetone. It may cause fire or explosion.

NOTE

- Prevent animals from nibbling on the power cable or water hose.

Cleaning and Caring

Cleaning the Exterior

In most cases, the exterior of the appliance can be cleaned with a soft damp cloth or sponge, then dried with a soft cloth. If the appliance has a stainless steel exterior, use a stainless steel cleaner.

⚠ CAUTION

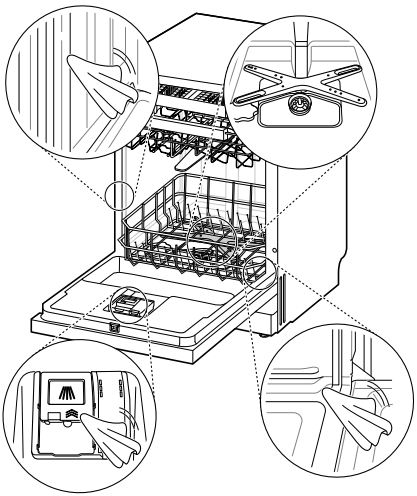
- If cooking oil is spilled on the exterior of the product, wipe it off immediately. Do not clean the exterior of the product with cleaners which contain alcohol, thinners, bleach, benzene, flammable liquids, or abrasives. These substances may discolour or damage the appliance.

Cleaning the Interior

It is recommended to clean the interior, spray arms, or filters once every two weeks.

Clean the interior of the appliance periodically with a soft, damp cloth or sponge to remove food and dirt particles. Using harsh and solvent based chemicals can cause the internal tub to leave a white stain or the appearance of rust.

Food residue may be stuck in the narrow gaps inside the appliance after completion of washing. Wipe off all food residue.



NOTE

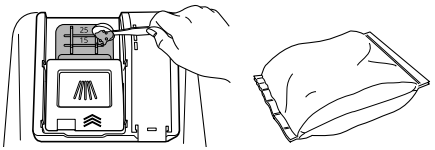
- If you have not used the appliance for a long time, refresh the inside by running **1 Hour** or **Machine Clean** programme with detergent. When the cycle is finished, clean the inside and outside of the appliance according to the **MAINTENANCE** instructions.

Cleaning the Tub

Using Citric Acid

Remove all dishes, cutlery basket and cutlery basket holder from appliance. Only racks should remain in tub. For best results, use citric acid powder (can be found in canning sections of most supermarkets or online). Measure 3 tablespoons

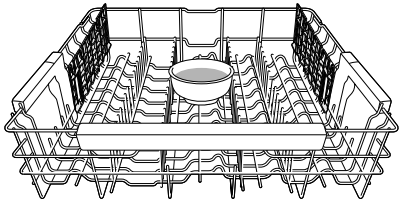
(45 g) of citric acid powder. Fill main wash compartment with measured powder.



Using White Vinegar

If you cannot find citric acid powder, pour approximately 3/4 - 1 1/4 cups (200 - 300 mL) of white vinegar into shallow bowl and place in upper rack. Run **Machine Clean (P13)** cycle. Do not use detergent. When the cycle is finished, restart.

Run the programme a second time with/without vinegar.



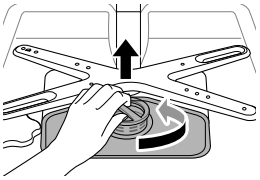
⚠ CAUTION

- Do not pour vinegar directly into the base.
- Excessive use of vinegar may cause damage to the appliance.

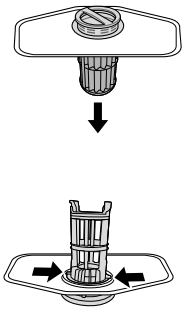
Cleaning the Filters

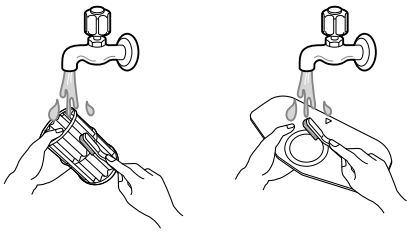
1 Remove the lower rack and position the bottom spray arm so a wider vee is open to the front.

2 Turn the inner filter counter-clockwise and take out the assembled inner filter and stainless steel filter.



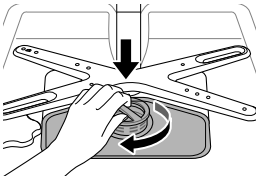
3 Clean the filters with a soft brush under running water. Reassemble the filters before reinstalling them.





4 To replace the assembled filters, position the spray arm so the wider vee is toward the front. Fit the filters back into the filter holder and

secure them by turning the inner filter clockwise until it clicks into place.



⚠ WARNING

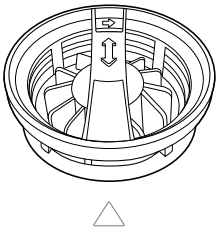
- Be cautious of sharp edges when handling the stainless steel filter.

⚠ CAUTION

- After using the appliance, particles of food are filtered by the filters. Any unremoved food residue may cause bad smell. In addition, drainage may have a problem due to food residue stuck in the filters.

NOTE

- When inserting the filter, close it firmly until you hear it click into place.



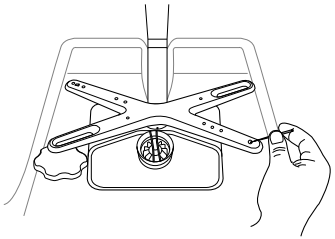
Cleaning the Spray Arms

If the spray arm holes are blocked by any food residue, dishes may not be cleaned well due to improper water spray.

Cleaning the Lower Spray Arm

1 Make sure that the water jet holes are not blocked by food particles.

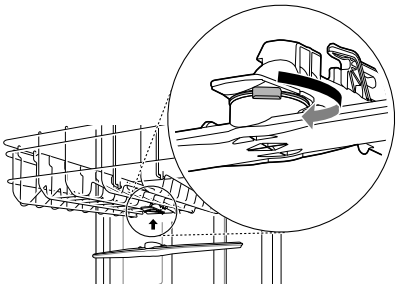
2 If any food residue blocks the spray arm holes, remove it with a pin or any sharp tool.



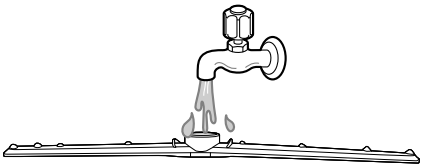
Cleaning the Upper Spray Arm

1 Pull the upper rack forward. Make sure that the water jet holes are not blocked by food particles.

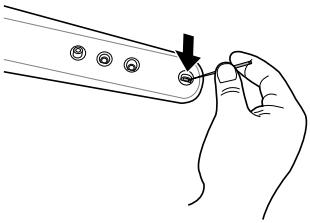
2 When cleaning is necessary, remove the upper spray arm by turning the nut on the bottom of the spray arm 1/8 turn clockwise and pulling down.



3 Remove food particles by rinsing or shaking the spray arm.

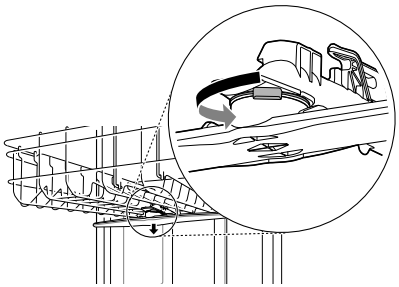


4 If any food residue blocks the spray arm holes, remove it with a pin or any sharp tool.



5 After removing the food residue, clean the spray arms holes under running water.

6 After cleaning the upper spray arm, press it up into place. Turn the nut 1/8 turn counterclockwise to make sure that the nut locks back into place.



7 After assembly, check whether the spray arms rotate freely.

⚠ CAUTION

- Arms that cannot rotate freely as a result of obstructions or poor maintenance can cause water leakage from the door resulting in a malfunction or damage to property.

Cleaning the Water Supply Hose Filter

1 Unplug the appliance.

2 Turn off the water tap.

3 Unscrew the water supply hose.

4 Remove the seal and the plastic filter with a pair of small pliers or scissor grips.



5 Clean the filter under running water with a brush.



6 Refit the filter and gasket and make sure that it is sitting correctly.

7 Refit and secure the water supply hose in reverse order. Do not use any mechanical device to tighten the hose. A soft cloth can be used to assist hand tightening.

NOTE

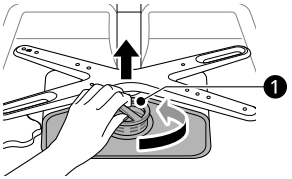
- If insufficient water flows into the appliance, check that the filter is not blocked.
- If there is a leak, the water supply hose will need to be checked for proper connection.
- Never over tighten the water supply valve or use mechanical devices to tighten.

Cleaning the Drain Pump

Foreign objects trapped in the drain pump may prevent proper drainage. Clean the drain pump regularly.

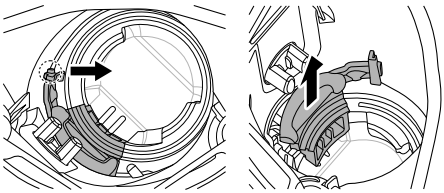
1 Turn off the dishwasher and open the door. Then remove the lower rack.

2 Turn the filter ❶ located at the bottom of the tub counterclockwise and remove it.
(Refer to the "Cleaning the Food Residue Filter" section.)

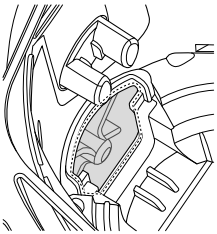


3 Remove the drain pump cover.

- Pull the handle of the drain pump filter toward you, then lift it upward to remove the cover.

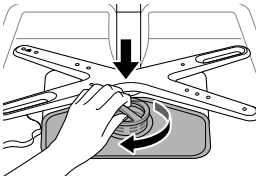


4 Remove any foreign objects trapped in the drain pump.



5 Reinstall the drain pump cover.

6 Reinsert the filter into its original position and turn it clockwise until it clicks into place.



Seasonal Maintenance and Storage

- If you will be absent for an extended period of time during warmer months, close the water valve and unplug the power cord, or turn off the circuit breaker. Clean the filter, tub and dispenser to prevent odour.
- If you will be absent for an extended period of time during colder months and there is a possibility of freezing temperatures, winterize the water supply lines and the appliance itself. Winterization must be performed by qualified service personnel.

TROUBLESHOOTING

Before Calling for Service

Operation of the appliance can lead to errors and malfunctions. The following tables contain possible causes and notes for resolving an error message or malfunction. You can remedy most of the problems by yourself, consequently save time and money, since you do not need to call service centre. The following table should assist you by troubleshooting.

Error Codes

The appliance is equipped with an automatic error-monitoring system to detect and diagnose problems at an early stage. If this appliance does not function properly or does not function at all, check the following before you call LG Electronics service centre.

If the issue is not listed below, please contact an LG Electronics service centre. This issues may be different from the model you purchased.

Symptoms	Possible Cause & Solution
F 11 (F11)	**Is water leaking?** • Turn off the water supply valve under the sink and contact the LG Electronics service centre.
F 12 (F12)	**Is water continuously being supplied?** • Turn off the water supply valve under the sink and contact the LG Electronics service centre.
F41 (F41)	**Water inlet problem.** • Check for a clogged, kinked or frozen water supply hose. • Check water supply.
F51 (F51)	**Is the area around the drain pump blocked by foreign objects?** • Refer to **Cleaning the Drain Pump** and remove any foreign objects around the drain pump.
F52 (F52)	**Drainage Problem.** • Check for a clogged, kinked or frozen drain hose.
	Waste spigot is clogged. • Remove knockout on waste spigot.
F53 (F53)	**Filters are clogged.** • Clean Filters.

Symptoms	Possible Cause & Solution
AI, A1, HI, H1	**Does this message appear continuously?** • This alert appears while the contamination level is being detected when using the **AI Course**. The alert remains on the screen for 12 seconds during contamination level detection. Once detection is complete, the remaining time of the wash cycle, adjusted according to the detected contamination level, is displayed on the screen.

Operation

Symptoms	Possible Cause & Solution
Noise	**Some level of noise is normal during operation.** • Detergent cover opening. • Drain pump at the beginning of drain cycle.
	The appliance is not level. • Adjust leveling feet.
	Spray arm knocking against dishes. • Reposition the dishes.
	Water pressure is too high. • Adjust water pressure.
	Is the amount of cutlery in the cutlery basket or cutlery rack small? • There is no problem with the product due to noise generated by the small amount of tableware, so use it with confidence.
Appliance will not operate.	**Door is not completely closed.** • Level the appliance again.
	Power supply or power cord is not connected. • Connect the power supply or cord properly.
	When the Control Lock feature is activated, the display code CL will show on the display. • Deactivate the **Control Lock** button. • Press and hold for 3 seconds to activate or deactivate this feature.
	Fuse is blown or circuit breaker tripped. • Replace the fuse or reset the circuit breaker.
Water remains in sump after completion of cycle.	**Water may remain if the power supply was lost before normal end of the course or was manually disconnected.** • Re-start the course.

Symptoms	Possible Cause & Solution
Sprays arms do not rotate smoothly.	**Holes of spray arms are blocked by food particles.** • Clean the holes of spray arms.
Upper rack is crooked.	**Rack is poorly adjusted.** • See the **Height Adjustable Upper Rack** section.
Interior Light does not illuminate	**Power is not connected.** • Connect power supply.
There is excessive foam inside the appliance.	**Failure to use the detergent exclusive for appliance.** • Use the detergent exclusive for appliance.
	An excessive amount of rinse may cause foam. • Reduce the rinse aid dispensing level.
Detergent is left in the detergent dispenser.	**Unbalanced upper rack.** • Adjust the left/right height of the upper rack.
	Detergent may not be dispensed because poor stacking of the dishes prevent automatic opening of the detergent dispenser. • Correctly arrange the dishes and always dry out the dispenser before adding new detergent so that it does not clump together.
Water leaks outside the appliance.	**The door may not be closed due to tilted appliance. In this case a water leak may occur.** • Check the levelling by adjust the leg.
	Wrong installation of drainage hose may cause water leak. • Check the connecting part of drainage hose.
	If the power is off, a water leak may be caused by a poor connection to the tap. • Check the connection water supply hose.
Drops of water forming under the sink shelf.	**Is there moisture accumulation under the bench top?** • During the automatic door opening function, high temperature steam will be emitted from the tub and will condense on the surfaces directly above the washer. • Condensation that has formed under the bench top naturally evaporates and disappears after a certain period of time. • However, if the bench top is made of wood or MDF, then aluminum tape must be attached to its underside at the location of the washer to prevent the timber from swelling and long term damage such as rot.

Performance

Symptoms	Possible Cause & Solution
Cloudiness on glassware	**Combination of excessive detergent and hard water** • Use less detergent and use a rinse aid to minimize the problem. • Check the setting of softening system.
Black or gray marks on dishes	**Aluminum items rubbing dishes during cycle** • Reposition the dishes.
Yellow or brown film on inside surfaces of appliance	**Coffee or tea stains** • Eliminate the stain by using a stain removal product.
Yellow water remains inside the dishwasher.	**When initially using the appliance, Yellow water may generate in the water softener tank.** • This is a normal condition, and it is harmless to humans. It disappears after 1 - 3 cycles.
Spots and filming on dishes	**Wrong amount of detergent used** • Use the recommended amount of detergent.
	Overloading • Do not overload the appliance.
	Improper loading • See the **OPERATION** section.
	Insufficient water pressure • Water pressure should be between 0.05 - 1.0 MPa.
	Insufficient detergent • Add the recommended amount of detergent. See the **OPERATION** section.
	Rinse aid dispenser is empty. • Refill rinse aid dispenser.
	The water softener has no salt or insufficient the salt. • Check whether there is the salt in the water softener.
	Softening Level may be set too low. • Increase the Softening Level value.
	The rinse aid may be insufficient. • Refill the rinse aid or increase the dispensing level.

Symptoms	Possible Cause & Solution
Spots and filming on dishes	**Hard water buildup in the tub** • Remove all dishes, cutlery basket and cutlery basket holder from appliance. Only racks should remain in tub. For best results, use citric acid powder (can be found in canning sections of most grocery stores or online). Measure 3 tablespoons (45 g) of citric acid powder. Fill main wash compartment with measured powder. If you cannot find citric acid powder, pour approximately 3/4 - 1 1/4 cups (200 - 300 mL) of white vinegar into shallow bowl and place in upper rack. Run **AI** cycle. Do not use detergent. When the cycle finish, run it again.
Odour	**The previous cycle was stopped before completion and residual water remains in the appliance.** • Turn on the power, run the cancel function to remove the residual water, then run the **1 Hour** cycle using detergent but with the appliance empty.
	There is food in the bottom of the unit or in the filter. • Clean the filter and the interior according to the **MAINTENANCE** section of the owner's manual.
	Unwashed dishes are left in the unit for a long time. • Cycle with one cup of white vinegar in a appliance safe glass or bowl placed on the upper rack. (Vinegar is an acid, and with constant use it could damage your appliance.)
Food soil remains on dishes.	**Improper cycle selection** • Select correct cycle based on soil level and type of dishware being washed.
	Water temperature is too low. • Check water supply connection or water heater setting.
	Dishwashing detergent was not used. • Use recommended detergent.
	Low inlet water pressure • Water pressure should be between 0.05 - 1.0 MPa.
	Water jet holes on spray arms blocked. • Clean the spray arms.
	Improper loading of dishes. • Make sure dishes do not block spray arm rotation or interfere with detergent dispenser.
	Filters are clogged. • Clean filters.
	Too much unremoved food debris on dishes. • Large particles of food residues should be removed from the dishes before starting wash.

Drying

Symptoms	Possible Cause & Solution
Dishes don't dry.	**Rinse agent dispenser empty.** • Check and refill the rinse agent dispenser if empty. For better drying result, slightly open the door after operation.
	Tablets used may not have a built in rinse aid. This will reduce the drying performance. • Change to a tablet that includes a rinse agent (contact the tablet manufacturer if unsure). Alternatively, you can use a liquid rinse agent in the dispenser if the tablets don't have a rinse agent built in.
	A cycle without the Dry Boost option was selected. • Select a cycle that defaults to the **Dry Boost** option.

Wi-Fi

Symptoms	Possible Cause & Solution
Your home appliance and smartphone are not connected to the Wi-Fi network.	**The password for the Wi-Fi that you are trying to connect to is incorrect.** • Find the Wi-Fi network connected to your smartphone and remove it, then register your appliance on **LG ThinQ**.
	Mobile data for your smartphone is turned on. • Turn off the **Mobile data** of your smartphone and register the appliance using the Wi-Fi network.
	The wireless network name (SSID) is set incorrectly. • The wireless network name (SSID) should be a combination of English letters (A-Z) and numbers (0-9). Do not use special characters.
	The router frequency is not 2.4 GHz. • Only a 2.4 GHz router frequency is supported. Set the wireless router to 2.4 GHz and connect the appliance to the wireless router. To check the router frequency, check with your internet service provider or the router manufacturer.
	The distance between the appliance and the router is too far. • If the distance between the appliance and the router is too far, the signal may be weak and the connection may not be configured correctly. Move the location of the router so that it is closer to the appliance.

Memo

