

OWNER'S MANUAL DISHWASHER

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

LSDF9962ST
LSDF9969BD



MFL69261708

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THANK YOU

Congratulations on your purchase and welcome to the LG family. Your new LG Dishwasher combines quiet, efficient operation with advanced cleaning technology. By following the operating and care instructions in this manual, your dishwasher will provide you with many years of reliable service.

IMPORTANT SAFETY INFORMATION

READ ALL INSTRUCTIONS BEFORE USE

Your safety and the safety of others is very important.

We have provided many important safety messages in this manual and on your appliance. Always read and follow all safety messages.



This is the safety alert symbol. This symbol alerts you to potential hazards that can result in property damage or serious bodily harm, even death.

The safety alert symbol will be followed by either the word "WARNING" or "CAUTION" then an important safety message. These words mean:

⚠ WARNING Indicates the possibility of serious bodily harm or death.

⚠ CAUTION Indicates the possibility of injury or damage to property.

BASIC SAFETY PRECAUTIONS

⚠ WARNING To reduce the risk of fire, electric shock, or injury to persons when using this appliance, follow basic precautions, including the following:

This manual contains very important information regarding the installation, use, and maintenance of your dishwasher. The manufacturer cannot be responsible for injuries or damage caused by failure to follow these safety and caution instructions.

- Read all instructions carefully before using the dishwasher.
- Use the dishwasher only for its intended function.
- Only use detergents or rinse agents recommended for use in a dishwasher. Keep all dishwasher detergents and additives out of the reach of children.
- This appliance is not intended for use by young children.
- When loading items to be washed:
 - 1) Load sharp items so that they are not likely to damage the door seal.
 - 2) Load sharp knives with the handles up to reduce the risk of injury when reaching into the dishwasher.
- Do not wash plastic items in the dishwasher unless they are labeled "dishwasher safe" or the equivalent. For plastic items that are not so labeled, check the manufacturer's recommendations.
- Do not operate the dishwasher unless all enclosure panels are properly in place.
- Do not tamper with the controls.
- Do not abuse, sit on, or stand on the door or dish racks of the dishwasher.
- To reduce the risk of injury, do not allow children to play in or around the dishwasher.
- 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 of time, turn on all hot water faucets and let the water flow for several minutes. This will release any accumulated hydrogen gas. Since hydrogen gas is flammable, do not smoke or use an open flame during this time.
- Remove the door to the wash compartment when disposing of an old dishwasher.
- The installer must ensure that the dishwasher is completely enclosed at the time of installation.
- **WARNING :** This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. ***Wash hands after handling.***

BASIC SAFETY PRECAUTIONS

⚠ WARNING To reduce the risk of fire, electric shock, or injury to persons when using this appliance, follow basic precautions, including the following:

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 on the appliance. Consult with a qualified electrician.

Tip Hazard

Do not put excessive downward force on the open dishwasher door prior to installation, as this could cause damage to the unit or cause it to tip over. Do not use the dishwasher before installation has been completed in accordance with the Installation Instructions.

ELECTRICAL SAFETY

⚠ WARNING

Electrical Shock Hazard

Failure to follow these instructions can result in death, fire, or electrical shock.

- The dishwasher **MUST** be grounded. Connect the ground wire to the green ground connector in the terminal box.
- Do not use an extension cord with this appliance.
- The dishwasher is designed to be used with standard household current (120 Volts AC, 60Hz.). Before connecting the dishwasher, ensure that the outlet or cable is properly grounded and polarized by circuit breakers or fuses. Failure to provide adequate grounding of this appliance may cause electrical shock or malfunction of the appliance. Consult with a qualified electrician.
- Do not install or store the dishwasher where it will be exposed to weather conditions. Failure to observe this precaution may result in electrical shock, fire, malfunction, and/or deformation of the dishwasher.
- Do not damage or place heavy items on the power cord of the appliance. Do not use the dishwasher if it has a damaged power cord. Power cord damage may cause fire and electrical shock. Consult with a qualified electrician.
- Do not grasp the power cord or touch the dishwasher controls with wet hands. Do not use the dishwasher if it has a damaged power cord or plug, and do not plug the dishwasher into a damaged outlet. Failure to observe these instructions may result in electrical shock.
- Disassembly or repair must be performed by experienced service persons. Improper disassembly or repair could lead to product failure or electrical shock.

BEFORE USING THE DISHWASHER

Before using the dishwasher, please read the Important Safety Instructions.

Water supply temperature should be a minimum of 120°F (49°C) for better washing and reasonable cycle time.

For this reason, use the hot water supply only. It is also important that the dishwasher is loaded according to instructions for effective cleaning. When loading the dishwasher, make sure that insoluble items such as bones, toothpicks, and pieces of paper have been removed.

When loading the dishwasher, observe the following general guidelines:

1. Place items with deep dish bottoms at an angle to help water run off and speed the drying process.
2. Remove solid, burned-on scraps from dishes prior to loading in the dishwasher.
3. Only load items that are dishwasher-safe.

! NOTE

Do not load utensils that are not heat-resistant, have decorative metal trim, etc.

SAVE THESE INSTRUCTIONS

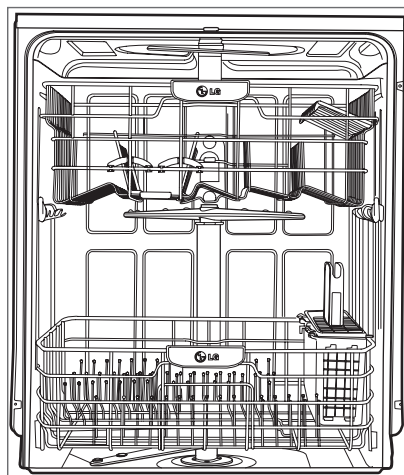
SPECIFICATIONS

- Power Supply: 120V, 60 Hz AC only, minimum 15A circuit breaker
- Water Pressure: 20–120 psi (140–830 kPa)
- Size (WxDxH): 23 3/4" x 24 5/8" x 33 1/2" (603 mm x 625 mm x 851 mm)
- Inlet Water Temperature: 120°F (49°C) minimum
- Product Weight : - LSDF9962 : 102.5 lbs.(46.5kg)
- LSDF9969 : 102.5 lbs.(46.5kg)
- The appearance and specifications are subject to change without notice.

PARTS AND FEATURES

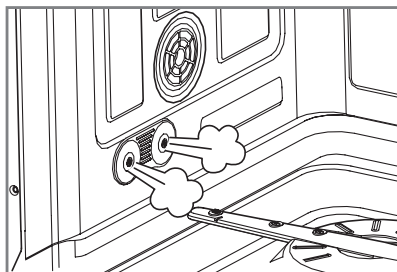
FEATURES

LARGE CAPACITY



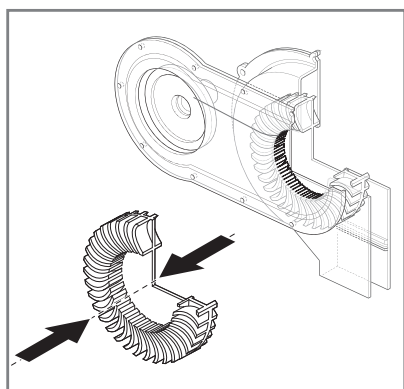
LG dishwashers allow you to load very large items in both the upper and lower racks. The tall tub provides extra overall capacity and the clearance to accommodate large dishes. Extra large items (max. 14 in.) may be loaded in the lower rack by raising the upper rack.

STEAM WASHING



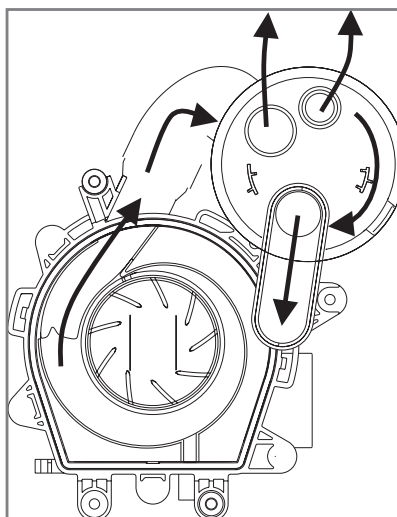
Steam technology provides better cleaning performance than regular wash systems. Steam is the most energy efficient gentle care for your finest china and stemware.

HYBRID DRYING SYSTEM



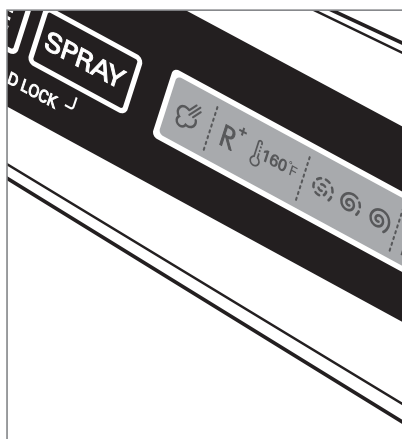
This system effectively dries dishes without the use of a heating element that would increase energy consumption.

VARIABLE SPRAY SYSTEM



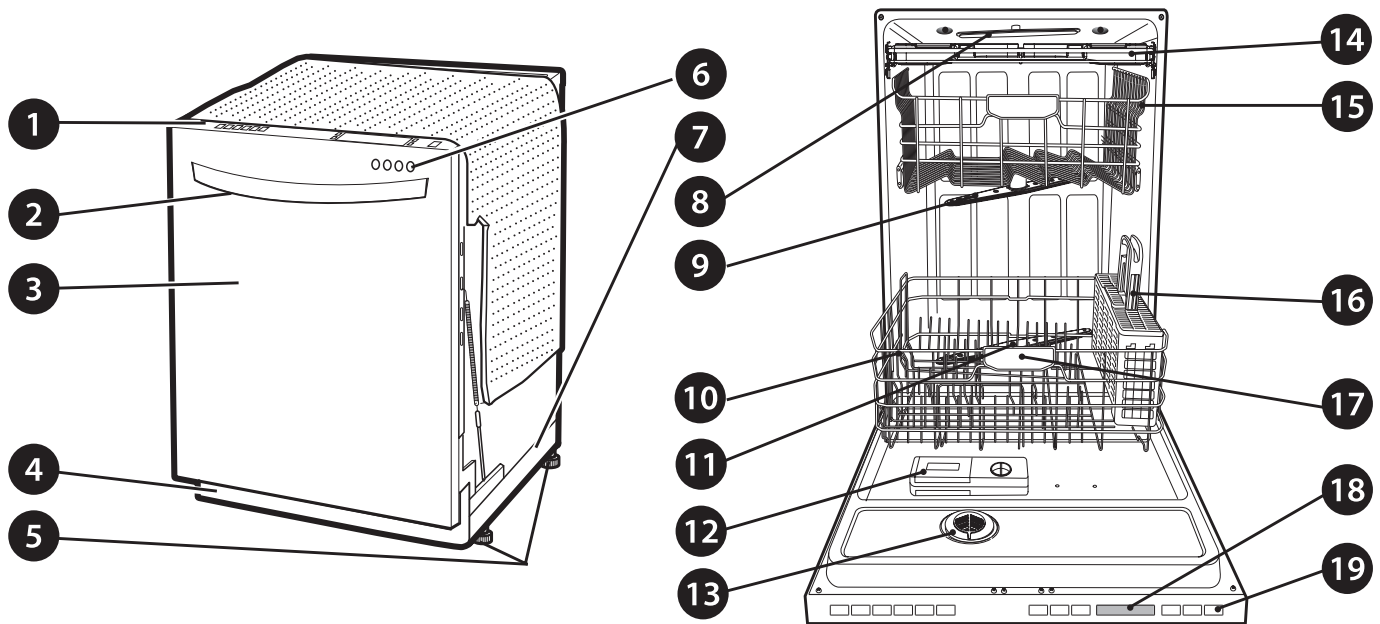
Because the water spray alternates between the upper and lower racks, all of the power from the motor is directed to one rack at a time. This concentrates all the cleaning power of the motor on each rack in turn.

BLUE LCD AND LIGHT TOUCH BUTTONS

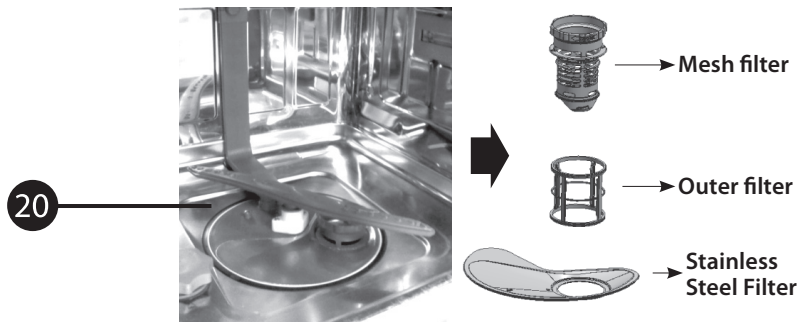


The light touch buttons on the control panel make selections easy and convenient. The blue LCD display clearly displays the selected cycle and options.

PARTS



1. CONTROL PANEL
2. DOOR HANDLE
3. FRONT COVER
4. LOWER COVER
5. LEVELING FEET
6. FRONT DISPLAY (SIGNALIGHT™)
7. BASE

**SIGNALIGHT (front display)**

When a cycle is running, the Signalight will illuminate for the active stage.

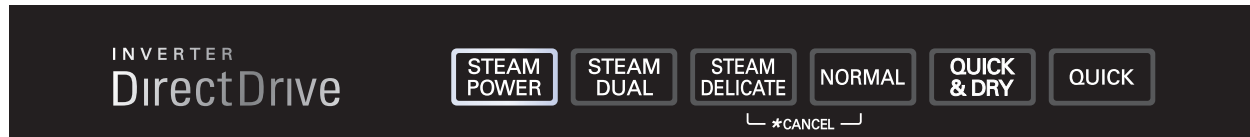
- **Model with 4 LEDs : WASH – RINSE – DRY – CLEAN**

Once the cycle is complete, the CLEAN light will illuminate for four minutes.

To keep the CLEAN light on until the door is open, turn the power on, and then press and hold the EXTRA DRY and HALF LOAD buttons on the control panel simultaneously until Off or On appears in the display. The dishwasher will remember this setting until manually changed.

8. TOP SPRAY ARM
9. UPPER SPRAY ARM
10. STEAM NOZZLE
11. LOWER SPRAY ARM
12. DETERGENT AND RINSE AID DISPENSER
13. DRYING VENT COVER
14. CUTLERY RACK
15. UPPER RACK
16. SILVERWARE BASKET
17. LOWER RACK
18. TOP DISPLAY
19. POWER BUTTON
20. FILTRATION SYSTEM

CONTROL PANEL



Cycles

Select your desired cycle.

STEAM POWER

This cycle is for heavily and hard soiled dishes. Steam Power defaults to the highest spray intensity and uses the power of steam to wash heavily soiled dishes.

STEAM DUAL

This cycle washes the upper and lower racks at different spray intensities. The default setting for this cycle washes the lower rack with strong spray intensity and the upper rack with soft spray intensity. This provides optimum cleaning performance for mixed loads, including fine china and stemware. If other combinations are desired, use the steps listed below to change the intensities or to use the HALF LOAD feature.

How To Use Steam Dual:

1. Select Steam Dual.
2. Press the Spray button to toggle between Soft, Medium and Strong for the upper spray arm.
3. After making your selection for the upper spray arm, press the Half Load button.
4. Press the Spray button to toggle between Soft, Medium and Strong for the lower spray arm.
5. Close the door to start the cycle.

STEAM DELICATE

This cycle adds the gentle power of steam to boost the cleaning power of the delicate cycle. The cycle is intended for effectively cleaning delicate items such as fine china and stemware.

NORMAL

This cycle is for normally soiled, everyday loads.

QUICK & DRY

This is a shortened cycle that is intended for washing and drying recently used dishes or lightly soiled loads. During this cycle, both spray arms will run at the same time.

QUICK

This is a shortened cycle that is intended to wash recently used or lightly soiled loads, without drying.

CHIME ON/OFF

To enable or disable the chime, first, turn on the dishwasher. Press and hold the Quick and Steam Delicate buttons simultaneously for approximately three seconds.

TO CANCEL A CYCLE

To cancel a cycle, open the door and then press and hold the Steam Delicate and Normal buttons together for approximately three seconds. The drain pump will activate and the cycle will cancel. The display will show "dr" and the dishwasher will drain the water. After the dishwasher is drained, the power will turn off.

If power is turned on and no cycle has been selected, the dishwasher will power off within four minutes.

Cycle Options

(Refer to the control panel on the next page)

Press the desired cycle and then select the options for that cycle.

EXTRA DRY

Select the EXTRA DRY option for better drying performance. This option adds 60 minutes of extra drying time to the cycle. The EXTRA DRY button will illuminate when the option has been selected.

RINSE

Repeated pressing of the Rinse button will select the desired Rinse option. The Sanitary, Extra Rinse, or Sanitary and Extra Rinse lights will show in the bottom left portion of the display.

SANITARY (H 160°F / 80°C)

This high-temperature rinse sanitizes dishes and glassware in accordance with NSF/ANSI Standard 184 for residential dishwashers. Certified dishwashers are not intended for licensed food establishments.

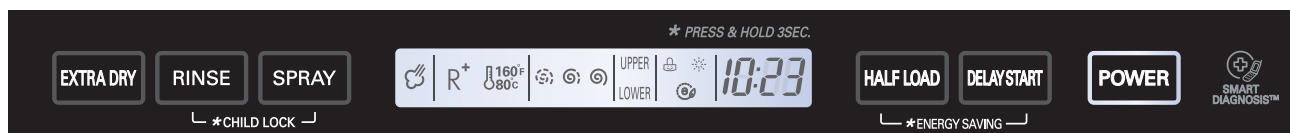
EXTRA RINSE (R⁺)

The Extra Rinse symbol indicates that an extra rinse has been added to the cycle. An extra rinse can help reduce hard water spotting on dishes. To add an extra rinse, press the Rinse button repeatedly until the Extra Rinse symbol appears in the display.

Rinse Only

This cycle is a quick rinse for dishes that will not be washed immediately. The cycle rinses dishes that have excess soil to soften dried on residue. Rinsing the dishes helps prevent odors in the dishwasher. No detergent should be used. To select the Rinse Only cycle, turn the dishwasher on, and press Rinse once without pressing any other cycle buttons. The Rinse Only cycle is not available with any other cycles.

CONTROL PANEL



SPRAY (INTENSITY)

First, select the desired cycle. Press the Spray button repeatedly until the desired spray intensity is selected.

Soft (), Medium (), Strong ()

HALF LOAD

For small loads, you may use just the upper or lower rack to save energy. Each press of the Half Load button cycles between upper rack only and lower rack only.

DELAY START

The Delay Start feature allows you to delay the start of a selected cycle. Each time the Delay Start button is pressed, the delay time will increase an hour. The delay start time can be set from 1 to 19 hours, in one-hour increments.

CHILD LOCK

The Child Lock feature helps prevent your 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.

To activate the Child Lock:

1. Open the dishwasher door.
2. Press the Power button.
3. Select the cycle (and desired options).
4. Press and hold the Rinse and Spray buttons for three seconds. The Child Lock indicator will illuminate in the display once the Child Lock is activated.
5. Close the door to begin the cycle.

DIGITAL DISPLAY

The Digital Display on the control panel shows the ESTIMATED cycle time. When the dishwasher is powered up, the display will be blank. When the cycle and options are selected, the display will show the total estimated time to complete those selections. During operation, the display shows the remaining estimated operating time.

! NOTE

- The estimated time shown in the display does not include delay times for heating water, etc.
- If Delay Wash is selected, the display shows the delay time in hours.
- Time may vary depending on the soil level of your load.

ENERGY SAVING

The Energy Saving option saves energy by using less water. This option should only be used with light to medium soiled dishes.

! NOTE

The RINSE AID symbol indicates that the rinse aid needs to be refilled.

POWER

- Press the Power button to turn on the control panel. If no cycle is selected within four minutes, the dishwasher will power off.
- After the cycle is complete, the power automatically turns off for safety and economy purposes.
- If there is a power surge, power outage, or disruption of any kind, the PF indicator will display and power will be automatically turned off for safety. The cycle will need to be restarted.

SMART DIAGNOSIS












































Should you experience any problems with your dishwasher, it has the capability of transmitting data to your Smart Phone using the LG Smart Laundry & DW Application or via you telephone to the LG call center.

! WARNING







Steam can cause burns. Use caution in the area of the steam nozzle, on the left side of the dishwasher, if the door is opened during the steam portion of a cycle. Contact with the steam or the steam nozzle can cause burns.




CYCLE OPTION CHART

The cycle guide below shows the available options for each cycle.

Cycle	Available Spray Level (default bold)	Extra Dry	Sanitary Rinse	Extra Rinse	Sanitary/ Extra Rinse	Half Load	Delay Start	Energy Saving
Steam Power	Strong 							
Steam Dual	Soft  (upper arm) Medium  Strong  (lower arm)							
Steam Delicate	Soft  Medium 							
Normal	Soft  Medium  Strong 							
Quick & Dry	Strong 							
Quick	Strong 							
Rinse Only	Medium  Strong 							








































ICONS

	Steam Cycle
R ⁺	Extra Rinse
	Sanitary Rinse
  	Low, Medium, High Spray, Intensity
	Child Lock

	Low Rinse Aid Indicator
	Energy Saving Cycle
	Cycle Time Indicator
UPPER	Upper Spray Arm
LOWER	Lower Spray Arm

CYCLE SELECTION CHART

The cycle guide below shows the default settings and available options for each cycle.

Cycle	Wash				Rinse			Dry	*Water Usage	**Cycle Time	Spray Intensity
	Pre 1	Pre 2	Pre 3	Main Wash	Rinse 1	Rinse2	Heated Rinse				
STEAM POWER				140°F 60°C 			158°F 70°C 		6.1 gal. 23.0 L	165 Min.	Strong
STEAM DUAL				154°F 68°C 			158°F 70°C 		4.6 gal. 17.5 L	147 Min.	U: Strong L: Soft
STEAM DELICATE				122°F 50°C 			154°F 68°C 		4.6 gal. 17.5 L	141 Min.	Soft
NORMAL				86–122°F 30–50°C 			149–158°F 65–70°C 		1.7–6.4 gal. 6.5–20.5 L	110~131 Min.	Medium
QUICK & DRY				122°F 50°C 			162°F 72°C 		7.6 gal. 29 L	79 Min.	Strong
QUICK				122°F 50°C 			122°F 50°C 		5.0 gal. 19 L	34 Min.	Strong
RINSE ONLY									1.0 gal. 4 L	22 Min.	Medium

* Actual water consumption will vary depending on soil level and water hardness.

** Actual cycle times may vary depending on soil level, water temperature and hardness

OPERATING INSTRUCTIONS

QUICK START

1. LOAD THE DISHES

Scrape the dishes free of excess food, bones, and any other hard, non-soluble residue. Pull each rack out and load the dishes as described in this manual.

2. MEASURE THE DETERGENT

Using the guidelines in this manual, fill the detergent cup with the recommended amount of detergent and close the lid. If a prewash is desired, the recess on top of the lid should also be filled with detergent.

3. TURN ON THE DISHWASHER

To turn on the display panel, press the Power button.

4. CHECK THE RINSE AID

The Rinse Aid indicator light will illuminate if the level of rinse aid in the dishwasher is low. Add rinse aid if the level is low to maintain the effectiveness of the dry cycle.

5. SELECT THE CYCLE AND OPTIONS

Select the cycle and options that best fit the load by referring to the Cycle Selection Chart. The display will show the estimated time for the cycle and options selected.

6. CLOSE THE DOOR

The dishwasher will start automatically, after a slight delay, when the door is closed and latched. During the cycle, the display will indicate the estimated time remaining for the cycle and options selected. If the door is opened during the cycle, the dishwasher will stop. When the door is closed, the cycle will resume from the point where it was stopped.

7. END OF CYCLE

When the cycle is complete, a chime will sound and the display will show "END." After a short time, the display and controls will shut off for safety and energy conservation.

CAUTION

Empty the lower rack first and then the upper rack. This will avoid water from dripping from the upper rack onto dishes in the lower rack.

WARNING

In general, it is not advisable to open the door while the dishwasher is in operation. If the door is opened, a safety device stops the dishwasher. Care should be taken when opening the door immediately following the cycle, as steam may escape.

AUTO-OFF

The dishwasher will automatically turn off if a cycle is not selected or if the door is not closed within four minutes.

LOADING THE LOWER RACK

⚠ CAUTION

NON-DISHWASHER SAFE ITEMS

The combination of high water temperature and dishwasher detergents may damage certain items. LG does not recommend washing the following items in the dishwasher:

- Hand painted silver or gold leaf dishes
- Wood or bone handled utensils
- Iron or other rust prone utensils
- Plastic items that are not dishwasher safe

When in doubt, check the manufacturers' recommendations.

The extra tall tub allows loading of dishes, pans, or other utensils up to 14 inches high.

The lower rack is recommended for dinner plates, soup bowls, dishes, pots, pans, lids, and grill trays. Plates should be positioned vertically and facing the center of the rack. Pots, pans, and large bowls must be turned so that the inside faces downward. The silverware basket may be used in either the lower or upper rack.

The lower rack should not be used for small items such as cups, wine glasses, or small plates. These items should be loaded in the upper rack.

For models with steam, load heavily soiled or stained dishes in the front left side of the lower rack with the dirty side facing down. This is the area that the steam enters the dishwasher. The use of hot steam maximizes the dishwasher's cleaning performance.

LOADING 10 PLACE SETTINGS



LOADING 12 PLACE SETTINGS



RACK LOADING TIPS

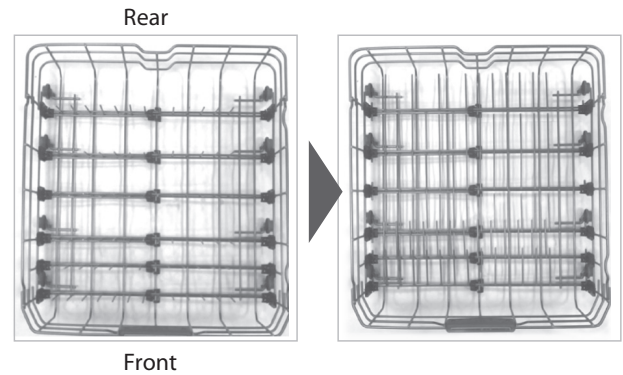
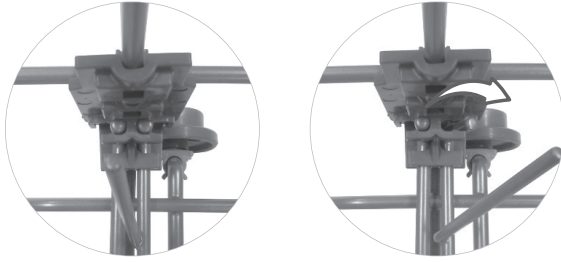
- Load plates, soup bowls etc. between the tines.
- Load cookie sheets, cake pans and other large items on the sides or back of the rack. Loading these items in the front of the dishwasher can prevent the water spray from reaching the detergent dispenser.
- Make sure that pot handles and other large items do not stop the rotation of the spray arms.

! NOTE

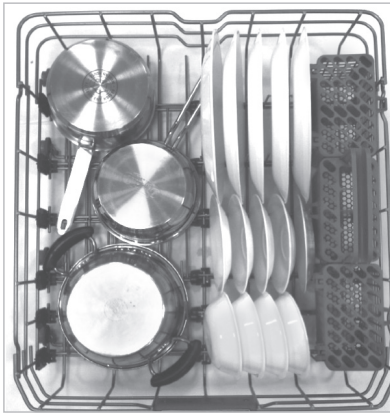
Make sure that large items do not interfere with the rotation of the spray arms, and do not prevent the detergent dispenser from opening.

FOLDING DOWN THE LOWER TINES

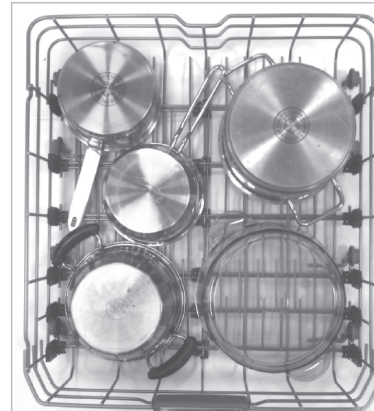
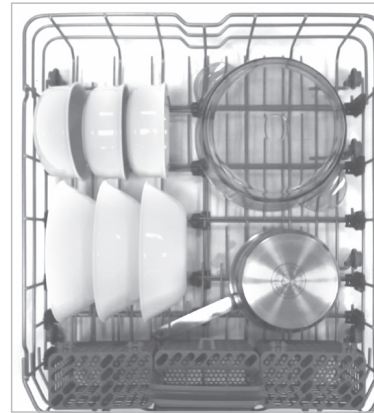
The tines are adjustable to fit dishes of various sizes.



LOADING DISHES & POTS

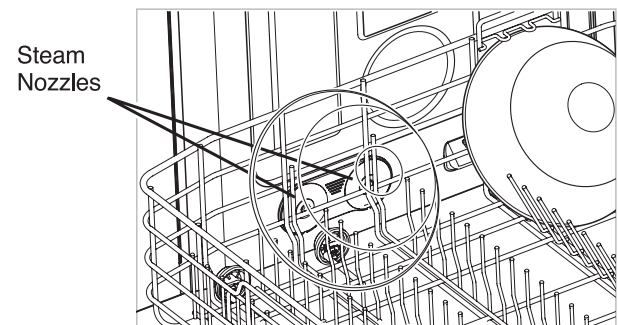


LOADING POTS & BOWLS



DIFFICULT TO REMOVE FOOD ON DISHES

Load items with difficult to remove or baked-on food near the steam spray arms, towards the left side of the lower rack, facing down. The dishes will benefit from the direct steam spray and the lower spray arm wash action.



LOADING THE SILVERWARE BASKET

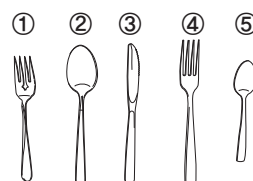
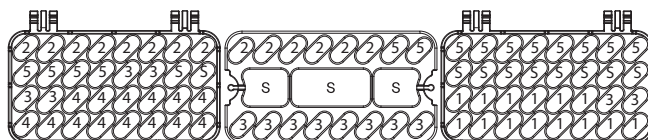
The silverware basket has separators to avoid scratching and tarnishing of delicate silverware. The basket can be separated into three separate baskets that can be used individually in both the upper and lower racks. Unlock the tabs above the left and right side to separate.

⚠ WARNING

Be careful when loading and unloading sharp items. Load sharp knives with the handles up to reduce the risk of personal injury.

SILVERWARE LOADING TIPS:

- For best cleaning results, use the top separators in the basket when loading silverware. The separators will prevent nesting of silverware.
- Load sharp items, such as knives, pointing down.
- When unloading the dishwasher, it is best to start with the silverware basket. Doing so will prevent water droplets from falling on your silverware from the upper rack.



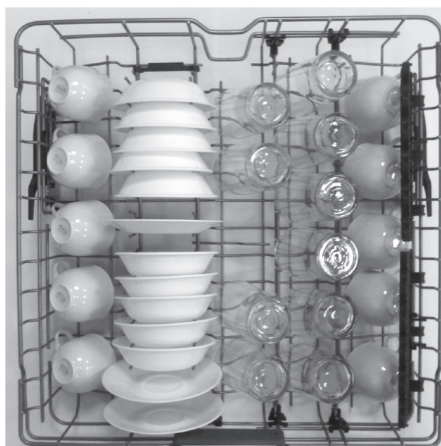
LOADING THE UPPER RACK

Use the upper rack for small or delicate items such as small plates, cups, saucers, glasses, and dishwasher-safe plastic items. Cups, glasses, and bowls must be positioned upside down. Extra cups or cooking utensils can be laid on the fold down cup racks, which may also provide support for long stemmed glasses. Make sure items do not interfere with the rotation of the spray arms above and below the upper rack.

! NOTE

When loading larger items in the upper rack, such as wine glasses or taller cups, it may be necessary to remove the cutlery rack.

LOADING 10 PLACE SETTINGS



LOADING 12 PLACE SETTINGS

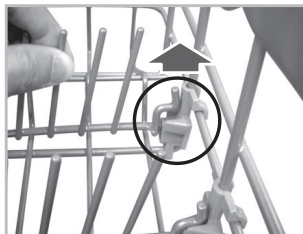


UPPER RACK LOADING TIPS:

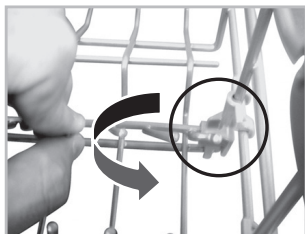
- Place cups and glasses in the rows between the rack tines. Placing them over the rack tines can lead to breakage and water spots.
- To avoid chipping, do not let stem ware touch other items.
- Place items so that the open end faces down for cleaning and drying.
- Do not stack items on top of each other.

FOLDING DOWN THE UPPER TINES

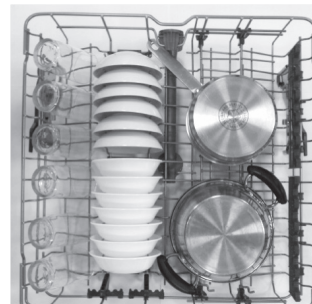
Pull up the tine



Rotate the tine



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

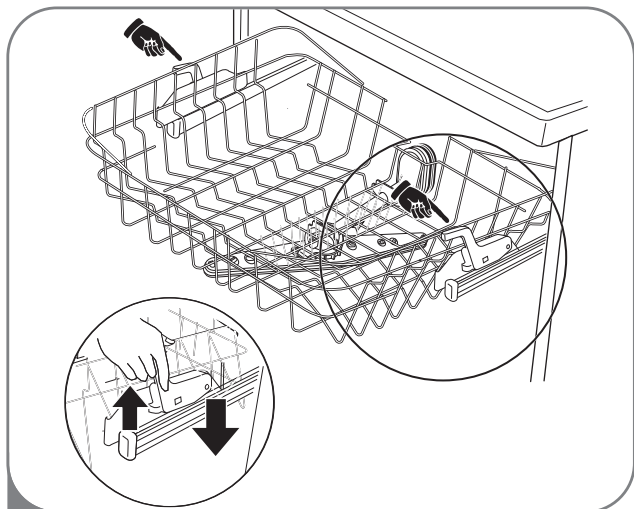


HEIGHT ADJUSTABLE UPPER RACK

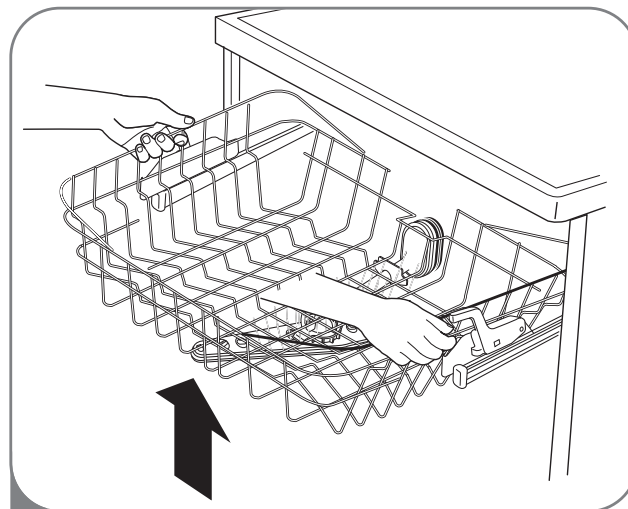
The upper rack adjusts up and down. Adjust the upper rack up to allow tall and oversized items of up to 14 inches high in the lower rack. Adjust the upper rack down to allow placement of large dishes of up to 12 inches high in the upper rack. The upper rack comes in the upper position.

! NOTE

After adjusting, make sure that dishes in the upper and lower racks do not interfere with the rotation of the spray arm. Do not adjust the rack while it is loaded with dishes.

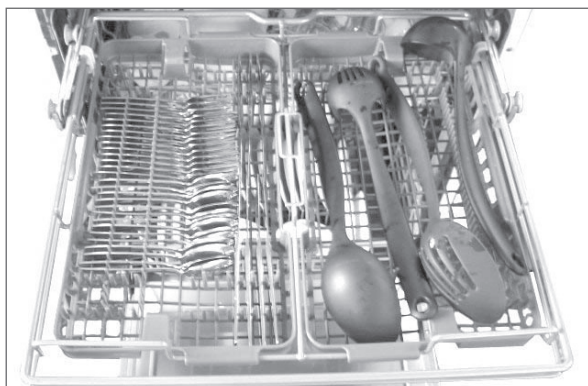


- 1** To lower the rack:
Hold the rack at the center of each side to support its weight. Then, lift the lever on each side to release the rack and lower it to the lower position.

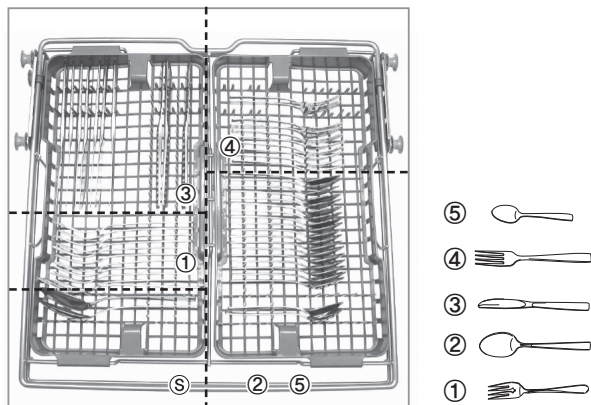


- 2** To raise the rack:
Simply lift the rack at the center of each side (see illustration) until the rack locks into place in the upper position. It is not necessary to lift the lock levers to raise the rack.

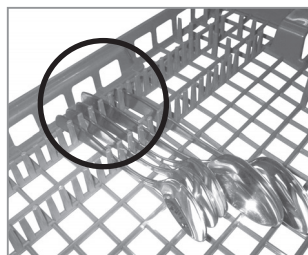
LOADING THE CUTLERY RACK



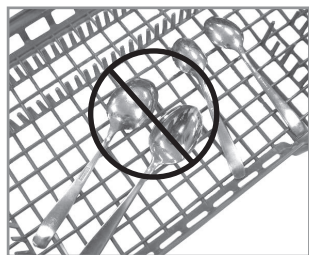
The cutlery rack is best suited for flatware and most cooking or serving utensils. Heavily soiled utensils or items with baked on foods should be placed in the middle rack or spoon basket for best performance. The separators on the cutlery racks help keep flatware separated to avoid damage and improve cleaning.



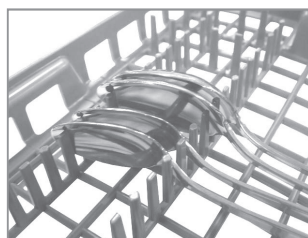
Sample 10-place setting.



Right



Wrong

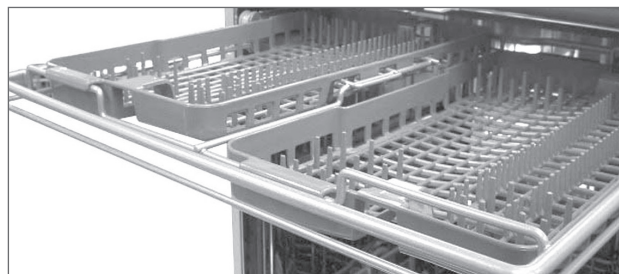


Alternate

If the handles of your flatware are too thick, then reverse the pieces so that the handles face the other direction, as shown in the bottom figure.

HEIGHT ADJUSTABLE TRAY

Each side tray can be adjusted independently to a high or low position to accommodate different sizes of utensils or cutlery. Remove dishes before adjusting the tray.



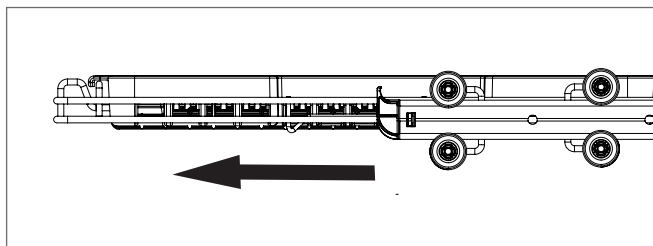
Each tray is adjusted by lifting it out and rotating it front to back.

Removing the Cutlery Rack

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

NOTE

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.

WARNING

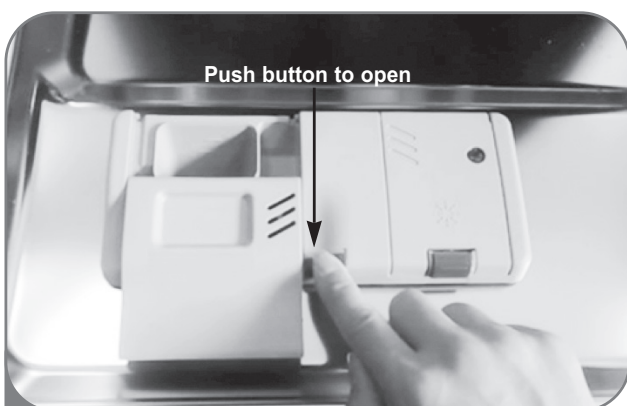
Be careful when loading and unloading sharp edged items. Load sharp knives with the blade down to reduce the risk of injury.

ADDING DETERGENT TO THE DISPENSER

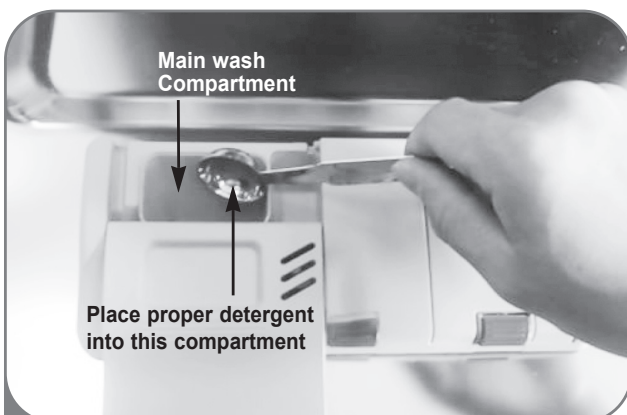
- Only use detergent intended for automatic dishwashers.
- Detergent must be put into the detergent compartment before starting any cycle, except the Rinse Only cycle.
- Use less detergent if the dishes are only lightly soiled. Using excess detergent can leave a film on dishes and in the dishwasher resulting in poor wash performance.
- The amount of detergent needed depends on the cycle, load size, and soil level of dishes.

! NOTE

Remove the label on the dispenser prior to running the dishwasher.



- 1 If the lid is closed, press the lever on the bottom side of the lid to open the dispenser.

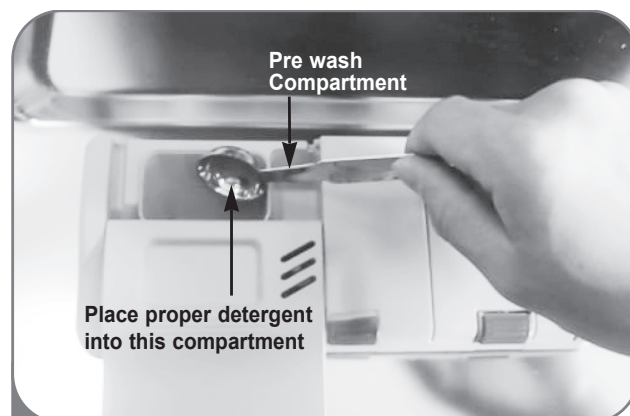


- 2 Add dish washing detergent to the main wash compartment until the level is between the lines marked 20 and 30. Fill to the 30 line for hard water or heavily soiled loads. Fill to the 20 line for soft water or lightly soiled loads.

Close the lid firmly until it clicks.

! NOTE

DO NOT add detergent when the Rinse Only cycle is selected.



- 3 If a prewash is desired, fill the recessed prewash compartment area in the lid with detergent.

! NOTE


Too much detergent can leave a film on dishes and in the dishwasher, resulting in poor wash performance. Do not use detergent tablets for shorter wash cycles. The tablet may not dissolve completely, causing detergent residue on dishes and inefficient cleaning. Using a wash booster will help remove spots, residue, and the white film caused by hard water. It will not help remove excess detergent residue.

! CAUTION

DETERGENT INFORMATION

Use only detergent intended for automatic dishwashers. Incorrect detergent may cause the dishwasher to fill with suds during operation. Excess sudsing may reduce wash performance and may cause the dishwasher to leak. DO NOT use hand dish washing detergent in this dishwasher.

ADDING RINSE AID TO THE DISPENSER

 The Low Rinse Aid indicator will appear in the display when more rinse aid is needed.

Only use liquid rinse aid in this dishwasher. The use of rinse aid is recommended to prevent water droplet spots on dishes and to enhance the drying performance.

! NOTE

Only use liquid rinse aid in the dishwasher.



1 Push button to open lid.

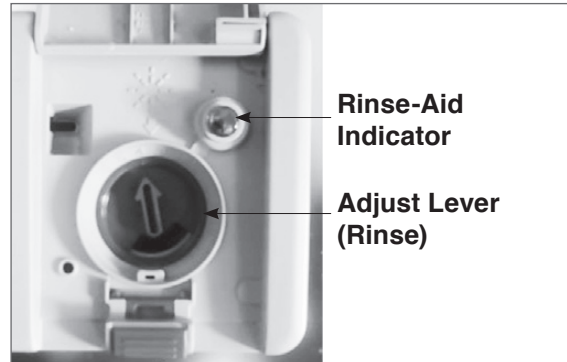


2 Add a liquid rinse aid to the maximum fill level. When filling the rinse aid dispenser, aim the rinse aid at the arrow. Make sure that the rinse aid is settled in the dispenser while filling.



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

RINSE AID DISPENSER ADJUSTMENT



The rinse aid dispenser is set to level 4, which should provide the best performance under most conditions. Adjust the setting higher if you have hard water and notice calcium buildup on your dishes.


If you notice film on your dishes, use a lower setting. Setting the rinse aid control too low will contribute to spotting and streaking of dishes and poor drying performance. Setting the control too high can cause foaming, which will cause poor wash performance.

To adjust the rinse aid dispenser setting, remove the cap and adjust the rinse aid lever to the desired setting. Point the arrow to the left for a lower setting, right for a higher setting.

REFILLING THE RINSE AID

The regularity of the dispenser needing to be refilled depends on how often dishes are washed and the rinse aid setting used. If the rinse aid level is low, the Rinse Aid light on the control panel will illuminate.

RINSE AID FILLING TIPS:

-  The Low Rinse Aid indicator will appear in the display when more rinse aid is needed.
- Do not overfill the rinse aid dispenser.
- Clean up any spilled rinse aid to prevent sudsing.

CARE & CLEANING

For best results, it is important to periodically check and care for the spray arms.

⚠ WARNING

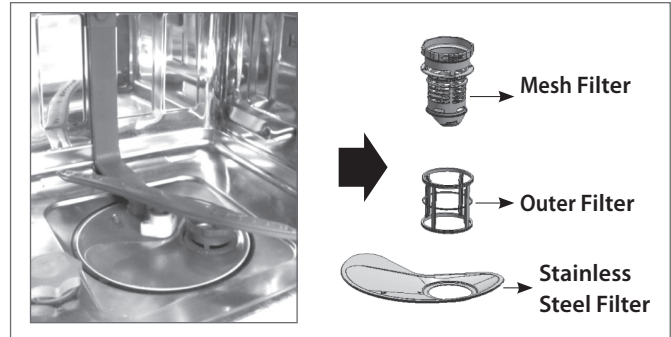
To prevent injury during care and maintenance/cleaning, wear gloves and/or protective clothing.

CLEANING THE FILTERS

1. Remove the lower rack first.
2. Turn the mesh filter counterclockwise.
3. Take out the mesh filter, Stainless Steel Filter and outer filter.
4. Clean them if necessary.
5. Replace them in the reverse order.

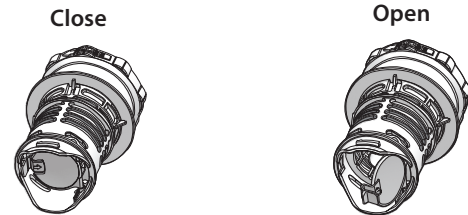
! NOTE

- For best wash performance, clean the filter after each load. If food debris remains in the filter, it may cause odor.
- Before starting a cycle, make sure that the filter is assembled correctly. If the filter is not assembled correctly, you may experience poor cleaning results.
- If you have hard water, it is recommended to clean this filter at least once a month.



All three filters should be cleaned according to the chart recommendations below. Clean the filters using non-abrasive materials and warm running water. A soft brush may be required to get hard to remove soil.

! NOTE



- The lower cover of the mesh filter can be opened for convenient cleaning.
- Close the lower cover before reassembling the filter.

Recommended filter cleaning chart:

Number of Loads Per Week	If you wash dishes before loading	If you scrape and rinse dishes before loading	If you only scrape dishes before loading	If you do not scrape or rinse dishes before loading
1-3	Every 6 months	Once a year	Four times a year	Once a month
4-7	Every 6 months	Once a year	Four times a year	Twice a month (every 15 days)
8-12	Every 6 months	Every 6 months	Every 1.5 months	Every week
13-14	Every 6 months	Every 6 months	Every 1.5 months	Twice a week

! NOTE

Check the drain air gap or in-sink disposer if your dishwasher is not draining well.

The drain air gap and disposer are external plumbing devices that are not part of your dishwasher.

The warranty provided with your dishwasher does not cover service costs directly associated with the cleaning or repair of external plumbing, including the drain air gap and disposer.

CLEANING THE INTERIOR

- Clean the interior of your dishwasher periodically with a soft, damp cloth or sponge to remove food and dirt particles.
- To remove white spots and odor from inside the dishwasher, run an empty cycle with detergent or run an empty cycle with one cup of white vinegar in a dishwasher safe glass or bowl placed on the upper rack. (Vinegar is an acid and with constant use it could damage your appliance.)

CLEANING THE LOWER SPRAY ARM



- Make sure that the water jet holes are not blocked by food particles.
- When cleaning is necessary, remove the lower spray arm by pulling up.
- After cleaning the lower spray arm, replace it by pushing down until it clips into place. Be sure that the spray arm is able to turn freely.

CLEANING THE UPPER SPRAY ARM



- Pull the upper rack forward. Make sure that the water jet holes are not blocked by food particles.
- When cleaning is necessary, remove the upper spray arm by turning the nut on the bottom of the spray arm 1/8 turn counterclockwise and pulling down.

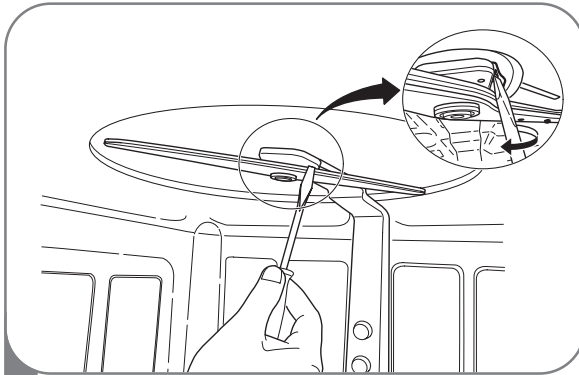
CLEANING THE EXTERIOR

- In most cases, the exterior of your dishwasher can be cleaned with a soft damp cloth or sponge, then dried with a soft cloth. If your dishwasher has a stainless steel exterior, a stainless steel cleaner is recommended.

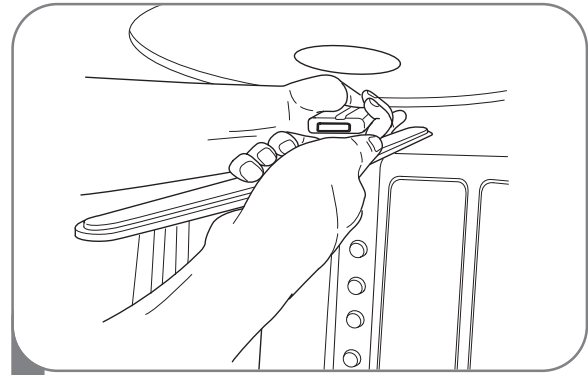


- After cleaning the upper spray arm, press it up into place. Turn the nut 1/8 turn clockwise to make sure that the nut locks back into place.

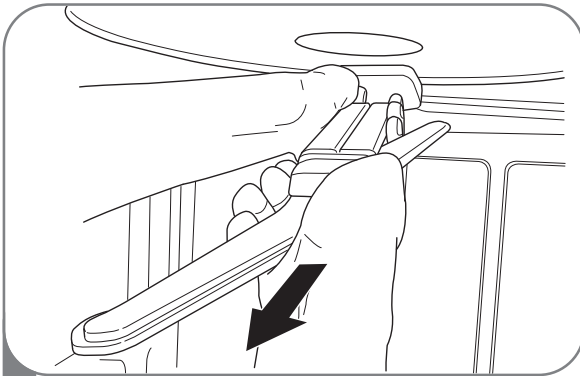
CLEANING THE TOP SPRAY ARM



- 1** Make sure that the water jet holes are not blocked by food particles. When cleaning is necessary, use a screwdriver to release the retainer clip from the bracket that holds the top spray arm assembly to the tub.



- 3** After cleaning the top spray arm, replace it. Slide it back into place and make sure the retainer clip engages.



- 2** Pull the spray arm out.

SEASONAL MAINTENANCE AND STORAGE

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

CLOGGED DRAIN AIR GAP

- Check the drain air gap when your dishwasher is not draining well.
- The drain air gap is an external plumbing device that is not part of the dishwasher.
- The warranty provided with the dishwasher does not cover service costs directly associated with the cleaning or repair of the external drain air gap.

FAQs

COMMON PRODUCT QUESTIONS

Is a rinse aid required to be used?

Rinse aid is strongly recommended to enhance the drying performance of the dishwasher. In order to be more energy efficient, the hybrid drying system does not utilize a heating element in order to assist in drying, so a rinse aid plays an integral role in the dry process. If a rinse aid is not used, water may remain on the dishes and the tub. Rinse aid will help to ensure that the majority of the water has been sheeted off of the dishes at the end of the rinse and that the load is ready for the dry cycle.

What can be done if my dishes have a cloudy, white film on them after a wash?

The cloudy film is usually caused by minerals in the water reacting with the dishwasher detergent. First, be certain not to use too much detergent. Refer to the owner's manual for recommended detergent amounts by cycle. Add an Extra Rinse to the cycle. Add an Extra Rinse, or run a Steam Power or Power Scrub cycle. LG Dishwashers use less water than traditional dishwashers, so adding an Extra Rinse will aid in rinsing the film away. If the water supply is hard, it may be necessary to add a performance booster that addresses the hard water condition.

What is the Sanitary option and how is it activated?

When selected, the Sanitary option increases the temperature of the heated rinse to approximately 161 °F (72 °C). The normal heated rinse temperature varies from cycle to cycle. Depending on the model, activate the Sanitary option as follows: either press the Sanitary button, press the Option button repeatedly, or press the Rinse button repeatedly until the Sanitary light shows in the display.

What steps can I take to improve drying results?

Dry performance is directly affected by the amount of heat that remains in the tub after the heated rinse is performed. If your dishwasher is far away from your home's hot water heater, it may be necessary to run the hot water tap in the sink before starting a wash cycle, to ensure that cool water is purged from the hot water lines. This will ensure your dishwasher has a consistent supply of hot water from start to finish. Using the Sanitary Rinse setting will also aid in keeping the inner drum temperature and dishes hotter before drying begins.

LG dishwashers are designed to be used in conjunction with a rinse aid. Using a rinse aid will maximize the amount of water that has already been sheeted away from the dishes before the dry cycle begins. If a rinse aid is used and the performance still needs a boost, adjust the amount of rinse aid used by the indicator on the rinse aid cap. 4 is the default setting, but if necessary, set the level to 5 so more rinse aid will be used.

Allow the dishwasher to completely finish the dry cycle before opening the door. If the door is opened mid dry cycle, the heat

that is necessary for the hybrid dry system to work will escape out. This will cause all of the dishes inside to remain wet once the cycle finishes.

What is the hybrid drying system?

The dishwasher does not rely on a heating element for the drying process; instead, it relies on the heat that is retained by the dishes and the tub during the wash and rinse cycles to turn the moisture in the tub into humidity. Warm, moist air in the dishwasher is then pulled into a condensing duct in the door by a fan. The air then cools, which causes the humidity to condense. Room temperature air is also drawn into the duct to help the air cool down faster. When this moisture condenses into a liquid, it is drained out.

! NOTE

Rinse aid is required to enhance the drying performance. If no rinse aid is used, water may remain on the dishes and the tub.

Why is there a whistling sound?

It is important to determine how long the noise occurs and when it happens (what part of the cycle). When water is drawn into the dishwasher, a whistling noise can be heard. This is normal. If the water pressure is too high, it will be louder so it may be necessary to adjust the water valve to lower the pressure if the noise is too loud.

What is Steam Dual?

Steam Dual is an option that can be utilized during wash cycles. This option enables you to fully customize the wash cycle intensity for the upper and lower racks, independently, in the same load. For example, by selecting a soft spray for the upper rack and strong spray for the lower rack, you can wash delicate stemware in the upper rack while washing pots and pans in the lower rack.

What kind of dishes can be placed in the dishwasher?

Ensure that the dishes you place in the dishwasher are dishwasher safe. Plastic dishware will not dry as effectively as glass and metal dishware. Plastic items do not retain heat as well as glass and metal dishware. Plastic cups and dishes may require some hand drying before being put away at the end of the cycle.

Can I perform a drain only cycle?

The dishwasher does not have a drain only function; however, the dishwasher will drain on its own for the first 45 seconds of a new cycle. To drain standing water, select a wash cycle and let it run for only 45 seconds. Then, turn the unit off and let it reset. Repeat as necessary.

How long does the clean indicator stay lit after the cycle is complete?

The clean light indicator on the dishwasher will stay lit for 4 minutes before turning off. You can, however, program the dishwasher so that the clean light stays on until the dishwasher door opens.

Why does my dishwasher continuously beep if I open the door during a cycle or right after the cycle has finished?

This is normal. The dishwasher is letting you know that the interior temperatures of the unit are hot and to use caution when placing your hands inside. Once the unit has cooled down, the beeping will stop.

PRODUCT FEATURES AND OPERATION**What is the benefit of steam?**

Steam allows for thorough cleaning of baked on foods while using less water than other power scrub methods. Steam also allows for enhanced cleaning performance when cleaning fine china and stemware items on a delicate cycle. Steam particles are smaller and more active so their penetrating power is more effective. Steam also increases the interior temperature of the dishwasher, which helps in melting oily or waxy substances, like lipstick along the rim of a glass.

What is Child Lock and how is it activated?

Child Lock is a feature that will prevent the controls from being changed during the cycle. It does not prevent the door from being opened or the unit from being powered off. To activate or deactivate, press the Spray and Rinse buttons simultaneously for 3 seconds.

Why is "PF" showing up on the display?

PF is not an error code indicating a malfunction. PF indicates that there was a power failure. This function protects the dishwasher in the event that the power goes out or the power to the unit is disrupted. When power is returned and a button is pushed, this will display for 10 seconds and then go away.

INSTALLATION**Can I add an extension to the drain hose?**

If an extension drain hose is required, use 5/8" or 7/8" inside diameter, 2-3 ft. length hose and a coupler for connecting the two hose ends.

BEFORE CALLING FOR SERVICE

Problem	Possible Causes	Solutions
Dishwasher will not operate	Door is not completely closed. Power supply or power cord is not connected. Fuse is blown or circuit breaker tripped.	Make sure that the door is completely closed and latched. Connect the power supply or cord properly. Replace the fuse or reset the circuit breaker.
Dishwasher operates too long	Dishwasher is connected to cold water.	Check the water supply connection or water heater setting. (Heating cold water takes longer.)
Odor	The previous cycle was stopped before completion and residual water remains in the dishwasher. There is food in the bottom of the unit or in the filter. Unwashed dishes are left in the unit for a long time.	Turn on the power, run the Cancel cycle option to remove the residual water, then run the Quick cycle using detergent but with the dishwasher empty. Clean the filter and the interior according to the "Care and Cleaning" section of the owner's manual. Run an empty cycle with detergent, or run an empty cycle with one cup of white vinegar in a dishwasher safe glass or bowl placed on the upper rack. (Vinegar is an acid, and with constant use it could damage your appliance.)
Water remains in tub after completion of cycle	Drain hose is kinked or clogged.	Adjust hose or clear blockage.
Spots and filming on dishes	Low water temperature.	Water supply should be at least 120°F for best wash performance.
	Wrong amount of detergent used.	Use the recommended amount of detergent.
	Overloading.	Do not overload the dishwasher.
	Improper loading.	See the Using Your Dishwasher section.
	Insufficient water pressure.	Water pressure should be between 20 and 120 psi.
	Insufficient detergent.	Add the recommended amount of detergent. See the Using Your Dishwasher section.
	Rinse aid dispenser is empty.	Refill rinse aid dispenser.
	Extremely hard water The best way to eliminate spots on your dishes is to install a whole house water softener in your home. If a water softener is already installed or you do not plan on installing one, try adding the "Extra Rinse" option as part of the wash cycle to help minimize this condition. To add an extra rinse to the cycle, select the wash cycle and then press the RINSE button. NOTE: Selecting "Extra Rinse" will increase cycle times and water usage. To remove hard water build up in the tub Remove all dishes, silverware and silverware holder from dishwasher. 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 6-8 tablespoons (90-120 g) of citric acid powder. Fill main wash compartment with measured powder. Place remaining powder in shallow bowl and place bowl in lower rack. Add warm or hot water to bowl and stir to dissolve citric acid powder. If you cannot find citric acid powder, pour approximately 1 ¾ -2 cups (400-500mL) of white vinegar into shallow bowl and place in lower rack. Run Normal cycle with Extra Rinse and Sanitary options. DO NOT USE DETERGENT. After cycle is complete, remove bowl and run a quick cycle to clean tub of any remaining vinegar or citric acid.	

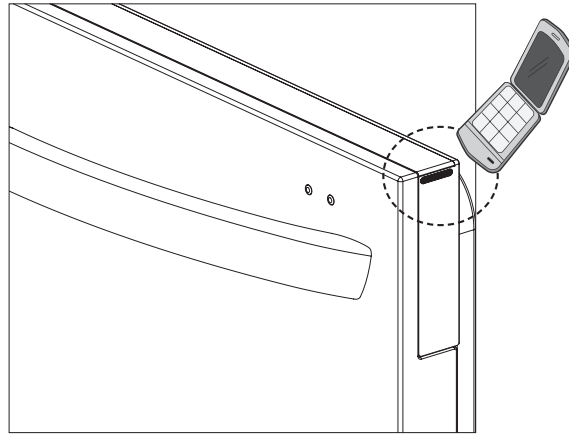
BEFORE CALLING FOR SERVICE

Problem	Possible Causes	Solutions
Food soil remains on dishes.	Improper cycle selection. Water temperature too low. Dish washing detergent was not used. Low inlet water pressure. Water jet holes on spray arms blocked. Improper loading of dishes Filters are clogged.	Select correct cycle based on soil level and type of dishware being washed. Check water supply connection or water heater setting. Use recommended detergent. Water pressure should be between 20 and 120 psi. Clean the spray arms. Make sure dishes do not block spray arm rotation or interfere with detergent dispenser. Clean filters.
Noise	Some level of noise is normal during operation. The dishwasher is not level. Nozzle arm knocking against dishes.	Detergent cover opening. Drain pump at the beginning of drain cycle. Adjust leveling feet. Reposition the dishes.
Cloudiness on glassware.	Combination of excessive detergent and hard water.	Use less detergent and use a rinse aid to minimize the problem.
Black or gray marks on dishes.	Aluminum items rubbing dishes during cycle.	Reposition the dishes.
Yellow or brown film on inside of surfaces of dishwasher.	Coffee or tea stains.	Eliminate the stain by using a stain removal product.
Dishes don't dry.	Rinse agent dispenser empty.	Check and refill the rinse agent dispenser if empty.
Lamps do not illuminate.	Power is not connected.	Connect power supply.
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.
Dishwasher continuously beeps when the door is opened, during or right after a cycle has completed.	The contents of the dishwasher are hot and care should be used when placing your hands inside the dishwasher.	Close the door until the dishwasher and dishes have cooled down. The beeping will go away if the door is closed or the interior temperature has been cooled.
IE Error	Water inlet problem.	Check for a clogged, kinked or frozen drain hose.
		Check water supply.
OE Error	Drainage Problem.	Check for a clogged, kinked or frozen drain hose.
	Air gap or disposer is clogged	Clean air gap or disposer
	Filters are clogged.	Clean Filters
FE Error	Excessive Water supplied.	Please call an Authorized Service Center or LGE Customer Service at 1-800-243-0000 (U.S.A.) 1-888-542-2623 (Canada)
E1 or AE Error	Water leakage problem.	
HE Error	Heater circuit failure.	
tE Error	Thermistor failure or very high inlet water temperature (over 194°F)	
LE Error	Motor Trouble	

SMART DIAGNOSIS™ SYSTEM

Should you experience any problems with your dishwasher, it has the capability of transmitting data to your Smart Phone using the LG Smart Laundry & DW Application or via your telephone to the LG call center.

Smart Diagnosis cannot be activated unless your dishwasher is turned on by touching the POWER button. If your dishwasher is unable to turn on, then troubleshooting must be done without using Smart Diagnosis.



Smart Diagnosis Using Your Smart Phone

1. Download the LG Smart Laundry & DW application on your smart phone.
2. Open the LG Smart Laundry & DW application on your smart phone.
3. Press the **Smart Diagnosis** button on your smart phone.
4. Press the **Diagnose** button on your smart phone.
5. Press the **Dishwasher** button on your smart phone.
6. Press the **RECORD** button on the smart phone and then hold the mouth piece of the smart phone near the speaker located on the side panel. Hold the phone no more than one inch (but not touching) the machine.
7. Press and hold the **Rinse** button on the dishwasher display for three seconds.

! NOTE

After three seconds, the display will change from 0:22 to 17 and then start counting down the remaining time.

8. With the phone held in place, press the **Smart Diagnosis** button on the phone.

! NOTE

Do not touch any other buttons or icons on the display screen.

9. Keep the phone in place until the tone transmission has finished. This takes about 17 seconds and the display will count down the time.
10. When the recording is complete, view the diagnosis by pressing the **Next** button on the phone.

Smart Diagnosis Through the Call Center

1. Call the LG call center at: (LG U.S.A.) 1-800-243-0000 (LG Canada) 1-888-542-2623.
2. When instructed to do so by the call center agent, hold the mouthpiece of your phone near the hole located on the side panel. Hold the phone no more than one inch (but not touching) the machine.

! NOTE

Do not touch any other buttons or icons on the display screen.

3. Press and hold the Rinse button on the display screen for three seconds.
4. Keep the phone in place until the tone transmission has finished. This takes about 17 seconds and the display will count down the time.
5. Once the countdown is over and the tones have stopped, resume your conversation with the call center agent, who will then be able to assist you in using the information transmitted for analysis.

! NOTE

Smart Diagnosis is a troubleshooting feature designed to assist, not replace, the traditional method of troubleshooting. It depends upon various factors, including, but not limited to, the reception of the cellular phone being used for transmission, any external noise that may be present during the transmission, and the acoustics of the room where the machine is located. Smart Diagnosis would accurately troubleshoot any given issue.

DISHWASHER LIMITED WARRANTY (USA)

Should your LG Dishwasher prove to be defective in material or workmanship under normal use during the warranty period listed below, effective from the date of original consumer purchase of the product, LG Electronics will replace the defective part(s). Replacement parts will meet intended fit and function of the original part. Replacement parts are warranted for the unexpired portion of the original warranty period. This limited warranty is good only to the original purchaser of the product and effective only when used in the United States of America.

WARRANTY PERIOD	
For the Period of:	LG Will Replace:
Two years from date of original purchase	Any part of the Dishwasher which fails due to a defect in materials or workmanship. During this full two-year of original purchase warranty, LGE will also provide, free of charge , all labor and on-site service to replace the defective part.
Five years from date of original purchase	Electronic control board and dishwasher rack which fails due to a defect in materials or workmanship. During this five-year parts warranty , you will be responsible for any labor or on-site service costs.
Ten years from date of original purchase	Direct Drive motor which fails due to a defect in materials or workmanship. During this ten-year warranty , you will be responsible for any labor or on-site service costs.
Limited Lifetime	Stainless steel door liner and tub (as long as owned by the original purchaser) which fails due to a defect in materials or workmanship. During this limited lifetime parts warranty , you will be responsible for any labor or on-site service costs.
Replacement units and repair parts may be new or factory remanufactured. Replacement units and repair parts are warranted for the remaining portion of the original unit's warranty period.	

No other warranty is applicable to this product. THIS WARRANTY IS IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. TO THE EXTENT ANY IMPLIED WARRANTY IS REQUIRED BY LAW, IT IS LIMITED IN DURATION TO THE EXPRESS WARRANTY PERIOD ABOVE. NEITHER THE MANUFACTURER NOR ITS U.S. DISTRIBUTOR SHALL BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL, INDIRECT, SPECIAL, OR PUNITIVE DAMAGES OF ANY NATURE, INCLUDING WITHOUT LIMITATION, LOST REVENUES OR PROFITS, OR ANY OTHER DAMAGE WHETHER BASED IN CONTRACT, TORT, OR OTHERWISE. Some states and/or territories do not allow the exclusion or limitation of incidental or consequential damages or limitations on how long an implied warranty lasts, so the above exclusion or limitation may not apply to you. This warranty gives you, the original purchaser, specific legal rights and you may also have other rights that vary from state to state or territory to territory.

THIS LIMITED WARRANTY DOES NOT COVER:

1. Service calls to your home for delivery or pick-up, installation, instruction, replacement of house fuses, connection of house wiring or plumbing, or to correct unauthorized repairs.
2. Failure of product to perform during power failures and interruptions or inadequate electrical service.
3. Damage caused by transportation or handling.
4. Damage caused to the product by accident, vermin, lightning, winds, fire, floods, or acts of God.
5. Damages caused by leaky or broken water pipes, frozen water pipes, restricted drain lines, or inadequate or interrupted water supply.
6. Damages caused by inadequate supply of air.
7. Damages caused by operating the product in a corrosive atmosphere.
8. Repairs when your LG product is used in other than normal, singlefamily household use or contrary to the instructions described in the product User's Guide.
9. Damage resulting from accident, alteration, misuse, abuse, or improper installation, repair, or maintenance. Improper repair includes the use of parts not approved or specified by LG.
10. Normal maintenance as described in the User's Guide, such as cleaning or replacing filters, cleaning coils, etc.
11. Use of accessories or components that are not compatible with this product.
12. Products with altered or removed serial numbers.
13. Changes in the appearance of the product that do not affect product performance.
14. Service costs directly associated with the cleaning or repair of external plumbing, including the drain air gap or disposer.
15. Increases in utility costs and additional utility expenses.

The cost of repair or replacement under these excluded circumstances shall be borne by the consumer.

For complete warranty details and customer assistance, please call or visit our website:

Call 1-800-243-0000 (24 hours a day, 365 days a year) and select the appropriate option from the menu, or visit our website at <http://us.lgservice.com>

Or by mail: LG Customer Information Center:

P. O. Box 240007
201 James Record Road
Huntsville, Alabama 35813
ATTN: CIC

Product Registration Information:

Model: _____

Serial Number: _____

Date of Purchase: _____

Dealer Name: _____



LG Customer Information Center

1-800-243-0000 USA

Register your product Online!

www.lg.com