

OPERATION

Using the Appliance

Before Using the Appliance

- Read the Important Safety Instructions.
- Connect to the hot water supply only. The water supply temperature should be a minimum of 120°F (49°C) for better washing performance and shorter cycle time.
- Follow the instructions for loading the dishwasher to ensure effective cleaning.
- Remove insoluble items such as bones, toothpicks, and pieces of paper while loading the dishwasher.

When loading the dishwasher

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

NOTE

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

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 Close the Door

4 Turn on the Dishwasher

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

5 Check the Rinse Aid

The **Rinse Aid**  icon will flash 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.

6 Select the Cycle and Options

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

7 Operate the Dishwasher

Method 1

- Press the Start button and then close the door in less than four seconds to operate the dishwasher. If the door is not closed within four seconds, the white LED with time flashes, an audible tone is heard, and the cycle does not start.

Method 2

- Close the door first and then press the Start button to operate the dishwasher.

If the door is opened during the cycle, the dishwasher will stop. To resume the cycle, see methods 1 and 2 above.

NOTE

- If the door is opened during the cycle and is not closed within four seconds after selecting the Start button, or if the door is closed without pressing the Start button, the white LED with time flashes, an audible tone is heard, and the cycle does not start.

8 End of Cycle

When the cycle is complete, a chime will sound and the display will show **End** until the door is opened or **Power** is pressed. To save energy, press and hold **High Temp** for three seconds to set the End display to automatically turn off a few minutes after the cycle ends.

CAUTION

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

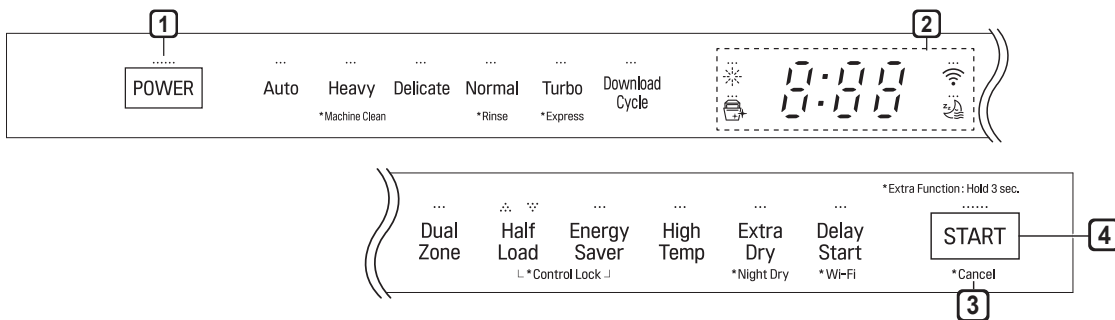
NOTE

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

Auto-Off

The dishwasher automatically turns off after four minutes of inactivity if paused or if no cycle is started.


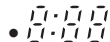
Control Panel



1 Power

- Press the **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.

2 Display

-  : **Rinse Aid Icon**
 - This icon illuminates when the rinse aid level is low. The LED automatically shuts off when the rinse aid is refilled or the level is set to 0.
 - Refer to the Rinse Aid Dispenser Adjustment section.
-  : **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.

NOTE

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

• , : **Control Lock**

- The Control Lock 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.
- While a cycle is running, press and hold **Half Load** and **Energy Saver** simultaneously for three seconds to activate or deactivate Control Lock.
- To start a new cycle, deactivate Control Lock.

• : **Wi-Fi**

- When the appliance is connected to the internet through a home Wi-Fi network, this icon illuminates.
- Press and hold **Delay Start** for approximately three seconds to connect to the network.

3 Cancel

- The drain pump activates and the cycle cancels. Once the dishwasher finishes draining, the power turns off.
- Press and hold **Start** for three seconds to activate.

4 Start

- To operate the machine, either press **Start** and close the door within four seconds or close the door and press **Start**.
- If **Start** button is not pressed to start the cycle, an alert will sound.

Chime On/Off

- To activate or deactivate the button sounds, press and hold **Dual Zone** and **Energy Saver** simultaneously for three seconds. The error alert sound cannot be turned off.

Cycles

Select your desired cycle.

Auto

This cycle senses the soil amount and soil toughness and is optimized to achieve the best cleaning.

Heavy

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

Delicate

Use this cycle to clean delicate items such as fine china and stemware.

Normal

This cycle is for moderately soiled, everyday loads. Select the **Night Dry** option if leaving dishes overnight. Press and hold **Extra Dry** for three seconds to activate Night Dry.

- After the cycle ends, the fan runs for an hour to help vent the warm, moist air in the tub. You can stop the fan by opening the door after the cycle ends.

Turbo

This cycle will clean heavily soiled dishes in an hour using slightly more energy and water.

- This cycle does not have drying. Select the **Extra Dry** and **Night Dry** option or another cycle for better drying.

Download Cycle

Use a dedicated cycle downloadable via Wi-Fi or NFC.

NOTE

- Only the cycle code for the current Download cycle appears on the appliance. See the smartphone app for cycle codes, names, and more information about the available cycles.

- Default Cycle : P1. Pots & Pans

Machine Clean

This cycle is for cleaning the inside of the dishwasher. Use the cycle without dishes in the machine. It eliminates residual soils, odor, white spots, and other dirt. Add citric acid or another cleaning agent for more effective results.

- Press and hold **Heavy** for three seconds to activate.

NOTE

- The **Machine Clean**  icon flashes every 30 cycles. To activate or deactivate the icon, press the **Delicate** button for three seconds.

Rinse

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.

- This cycle does not have drying.
- Press and hold **Normal** for three seconds to activate.

Express

This cycle will quickly clean lightly soiled dishes. (Time : 33 minutes)

- This cycle does not have drying. Select the **Extra Dry** and **Night Dry** option or another cycle for better drying.
- Press and hold **Turbo** for three seconds to activate.



Options

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

Dual Zone

This option automatically sets the spray intensity to soft for the upper spray arm and strong for the lower spray arm. Place heavily soiled dishes like plates and bowls in the lower rack and lightly soiled dishes like cups and small plates in the upper rack to get the best results.

Half Load

This option washes intensively by selecting the upper or lower racks. For small loads, use just the upper or lower rack to save energy and time. By pressing the **Half Load** button, the settings ,  and the cancellation of the Half Load option are available.

Energy Saver

This option saves energy by reducing the wash and rinse temperatures. Wash time is increased to maintain wash performance. Do not use this cycle with heavily soiled dishes.

High Temp

Raises the main wash temperature to improve cleaning.

Extra Dry

Select the **Extra Dry** option for better drying performance. This option adds extra drying time to the cycle and raises the heated rinse temperature.

- When the rinse aid is empty, the **Extra Dry** option is selected automatically.

Night Dry

Dishes are often left in the dishwasher overnight after the cycle ends. This can result in the steam inside the tub condensing on dishes, leaving them wet. The Night Dry option runs the ventilation fan periodically to help vent the steam from the tub.

- Press and hold **Extra Dry** for three seconds to activate.
- The **Night Dry** option is selected by default for all cycles for which it is available, except the Normal cycle.
- To add the **Night Dry** option to the Normal cycle, press and hold **Extra Dry** for 3 seconds.

Delay Start

The Delay Start feature delays the start of a selected cycle. Each time the **Delay Start** 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.

Cycle/Option Guide

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

Cycle	Auto	Heavy	Delicate	Normal	Turbo	Express	Rinse	Machine Clean
Soil Level	all levels	heavy	light	all levels	heavy	light	light	
*Water Usage	13.8-25.0L	26.9 L	19.7 L	9.2-19.5 L	27.5 L	20.4 L	6.8 L	12.3 L
	3.6-6.6 gal	7.1 gal	5.2 gal	2.4-5.2 gal	7.3 gal	5.4 gal	1.8 gal	3.2 gal
**Wash Time with Options (Mins.)	89 - 192	140 - 214	95 - 153	98 - 190	59 - 121	33 - 103	12	82
Available Options	Dual Zone	<input type="radio"/>	<input type="radio"/>		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	Half Load	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			
	***Energy Saver	<input type="radio"/>		<input type="radio"/>	<input type="radio"/>			
	High Temp	<input type="radio"/>	<input type="radio"/>		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	Extra Dry	<input type="radio"/>	<input type="radio"/>	△	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	Night Dry	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="radio"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	Delay Start	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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

** The actual running time and cycle time displayed may change depending on options chosen, soil level, water temperature, and hardness of water. Therefore, display time and actual running time can be different.

*** Energy Saver cannot be used at the same time as Extra Dry or High Temp.

△ : Extra drying time only, no added high-temperature rinse.

☐ : ON by default.

NOTE

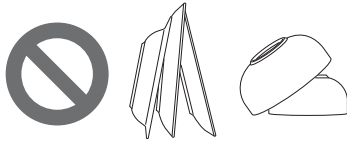
- Options are not available for Download Cycle.

Loading the Dishwasher

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

For effective washing performance, always follow the following 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 in the dishwasher.
- Deep pots or dishes should be placed upside down.
- Make sure that all items do not touch each other.



Non-Dishwasher Safe Items

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

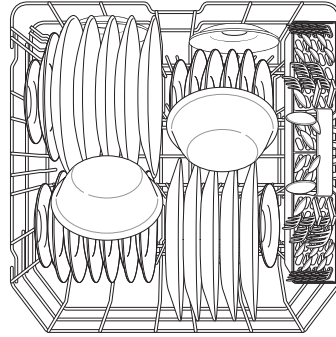
- Copper or anodised aluminium
- Hand painted silver or gold leaf crockery
- Wood or bone handled utensils
- Iron or non rust proof utensils
- Plastic items which are not dishwasher safe
- Expensive ware such as silver and dishes with golden rings
- Fragile item such as crystal glasses

CAUTION

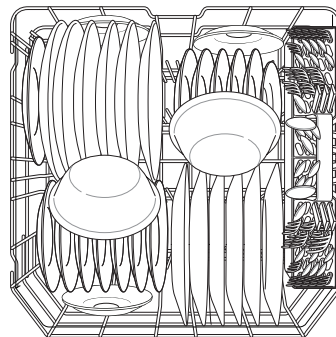
- Do not place pots or pans with plastic handles in the appliance as the handles may deteriorate due to the heat and detergent.
- Water proof or long lasting lipstick smudges on glasses may not be removed during the wash.

Loading the Lower Rack

Loading 10 Place Settings



Loading 12 Place Settings



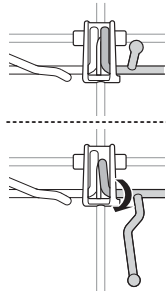
Lower Rack Loading Tips:

- Plates should be positioned upright and facing the center of the rack and pots, pans and large dishes must be turned upside down.
- Load dinner plates, dishes, 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.
- 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.
- Make sure that large items do not interfere with the rotation of the spray arms, and do not prevent the detergent dispenser from opening.

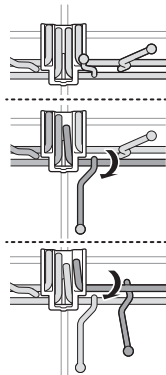
Folding Down the Lower Tines

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

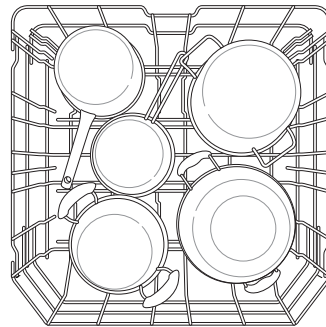
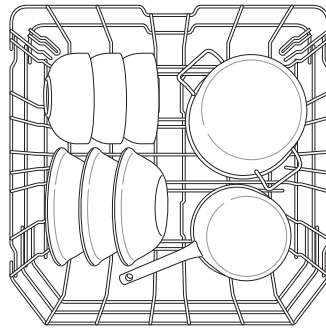
Case 1



Case 2



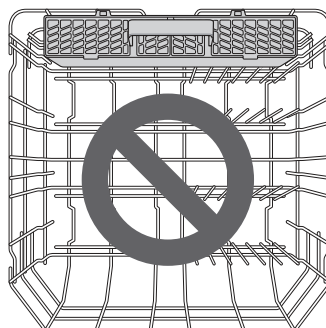
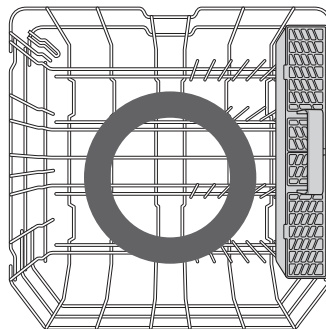
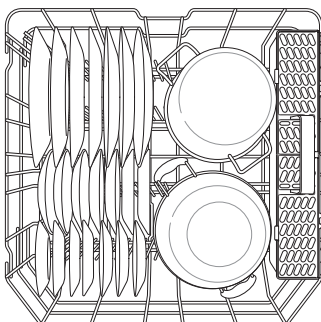
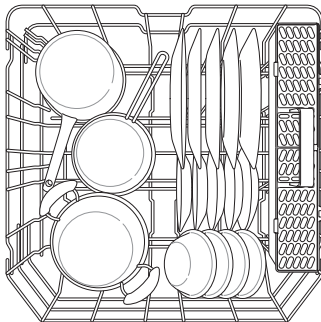
Loading Pots & Bowls



NOTE

- The silverware basket ships installed at the back of the bottom rack. For best performance, install it along the right side as shown.

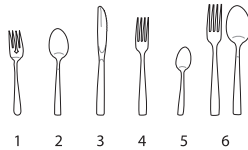
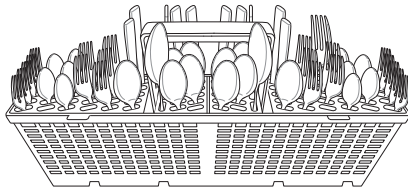
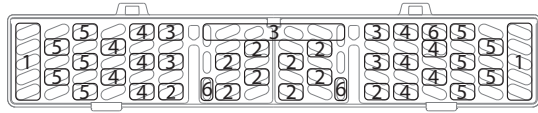
Loading Dishes & Pots



Loading the Silverware Basket

The silverware basket has separators to avoid scratching and tarnishing of delicate silverware.

Loading 10 Place Settings



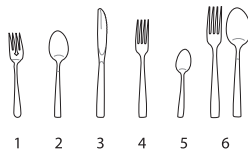
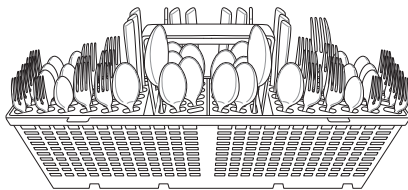
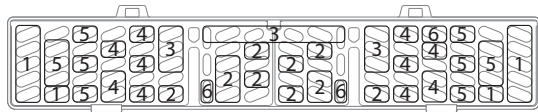
Silverware Loading Tips:

- 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.

! WARNING

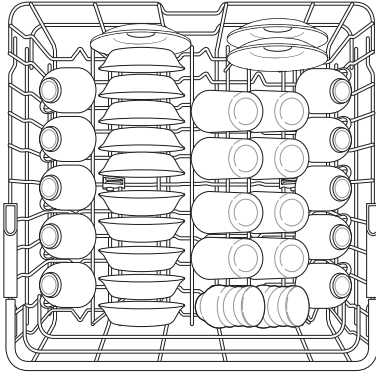
- Be careful when loading and unloading sharp items. Load sharp knives with the handles up to reduce the risk of personal injury.

Loading 12 Place Settings

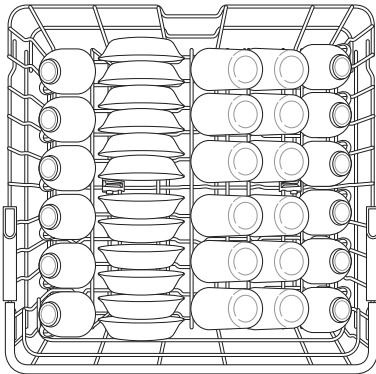


Loading the Upper Rack

Loading 10 Place Settings



Loading 12 Place Settings

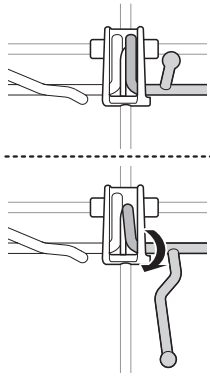


Upper Rack Loading Tips:

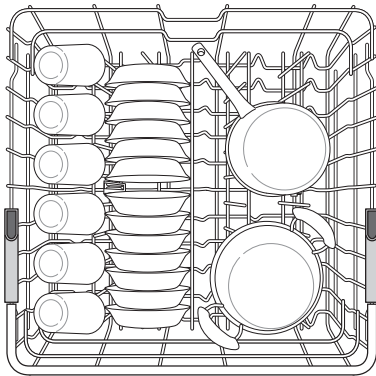
- Place cups and glasses in the rows between the rack tines. Placing them over the rack tines can lead to breakage and water spots.
- To avoid chipping, do not let stemware touch other items.
- Place items so that the open end faces down for cleaning and drying.
- Do not stack items on top of each other.
- 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.
- Make sure items do not interfere with the rotation of the spray arms above and below the upper rack.
- When loading larger items in the upper rack, such as wine glasses or taller cups, it may be necessary to remove the cutlery rack if one is present.

Folding Down the Upper Tines

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



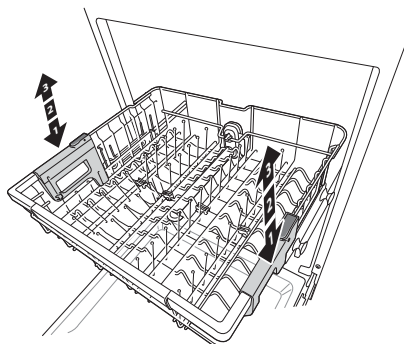
Loading Dishes & Pots



Height Adjustable Upper Rack

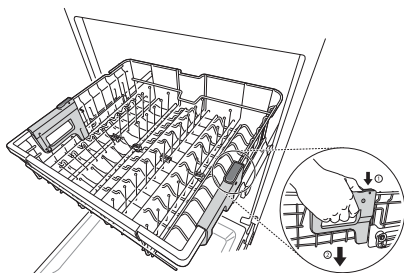
The upper rack adjusts up and down. Raise the upper rack to allow items up to 14" tall in the lower rack. Lower the upper rack to allow dishes up to 12" tall in the upper rack. The dishwasher ships with the upper rack raised.

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



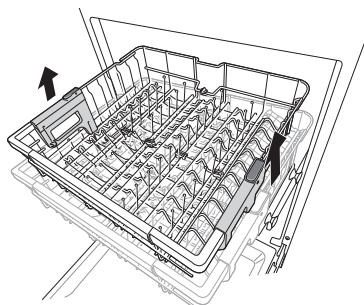
Lowering the Rack:

Hold the rack at the center 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 center 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.

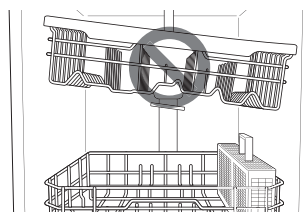


⚠ WARNING

- 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.
- Before pushing the upper rack into the dishwasher, ensure the rack height is the same on both sides. If the height is not the same on both sides, the dishwasher door will not shut and the upper spray arm will not connect to the water inlet.



- There is a 24 ⁵/₈ inches (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.
- 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.
- 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.

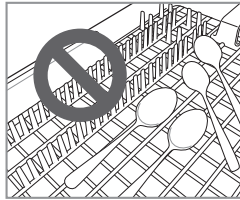
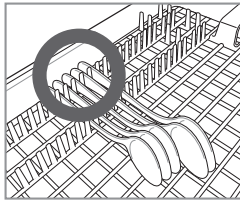
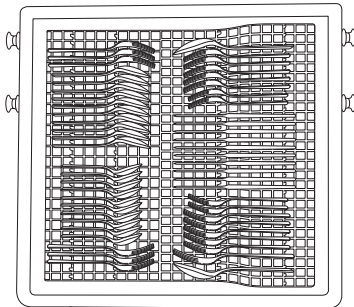
Loading the Cutlery Rack

The cutlery rack is best suited for flatware. The separators on the cutlery racks help keep flatware separated to avoid damage and improve cleaning.

NOTE

- For best cleaning performance, place flatware in the silverware baskets. Heavily soiled utensils or items with baked on foods should be placed in the middle rack or spoon basket for best performance.

Loading 10 Place Settings

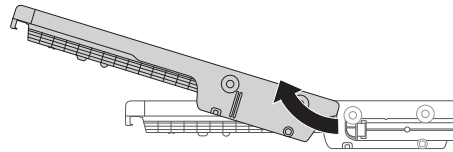


Removing the Cutlery Rack

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.



⚠ WARNING

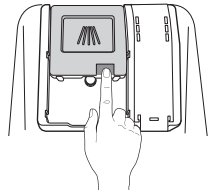
- Be careful when loading and unloading items with sharp edges. Load sharp knives with the blade down to reduce the risk of injury.

Adding Cleaning Agents

Adding Detergent to the Dispenser

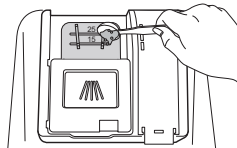
- Remove the label on the dispenser prior to running the dishwasher for the first time.
- The amount of detergent needed depends on the cycle, load size, and soil level of dishes.
- Put detergent into the detergent compartment before starting any cycle, except the Rinse cycle.

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

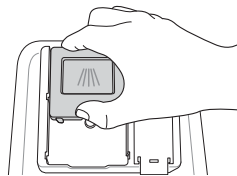


- 2 Add dishwashing detergent to the main wash compartment until the level is between the lines marked 15 and 25.

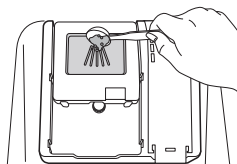
- Fill to over the 25 line for hard water or heavily soiled loads.
- Fill to the 15 line for soft water or lightly soiled loads.



- 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.



⚠ 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 dishwasher to fill with suds during operation. Excess suds may reduce wash performance and may cause the dishwasher to leak.
- To avoid damaging the dispenser, do not pull up on the dispenser to close the dishwasher door.



NOTE

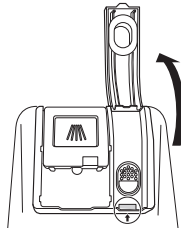
- After completion of the wash program, check whether the detergent was completely washed out.
- Some dishwasher detergent tablets may become stuck in the dispenser due to their excessive size. Tablets can be placed onto the base of the wash tub next to the filter before starting the cycle.
- Too much detergent can leave a film on dishes and in the dishwasher, resulting in poor wash performance.
- If dishwasher detergent tablets are used without liquid rinse aid, the dishes and dishwasher interior will have excessive moisture. Select the **Extra Dry** option for better drying performance.
- Using liquid rinse aid improves drying performance by allowing water to drain off of dishes after final rinse.
- 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 helps remove spots, residue, and the white film caused by hard water. It does not help remove excess detergent residue.

Adding Rinse Aid to the Dispenser

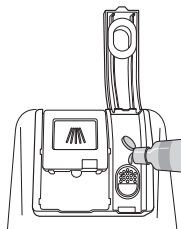
The **Rinse Aid** indicator appears in the display when more rinse aid is needed.

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

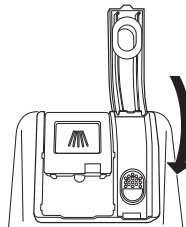
- 1 Open the rinse aid lid by lifting up the flap.



- 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 performance. Avoid overfilling the dispenser.



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



NOTE

- Only use liquid rinse aid in the dishwasher.
- Do not overfill the rinse aid dispenser.
- Wipe off any spilled rinse aid around the dispenser.

Rinse Aid Dispenser Adjustment

The dispenser has five adjustment levels. The dishwasher is programmed at the factory for a rinse aid dispenser level of 2. This can be checked and altered by using the buttons on the control panel.


- 1 Ensure the appliance is off.
- 2 Press **Dual Zone** and **Power** simultaneously to check the current setting.
- 3 Press **Delay Start** to change the rinse aid dispenser setting. Each press of the button changes the setting one step from L0 to L4.
- 4 Once the desired rinse aid dispenser setting is selected, press **Start** to save.

NOTE

- Adjust the setting higher if you have hard water and notice calcium buildup on your dishes.
- Setting the rinse aid control too low will contribute to spotting and streaking on dishes and poor drying performance.
- Setting the control too high can cause foaming, which will cause poor wash performance.

Refilling the Rinse Aid

How often the dispenser needs to be refilled depends on how often dishes are washed and the rinse aid setting used.

- The **Rinse Aid**  icon flashes when more rinse aid is needed, unless the rinse aid dispenser setting is set to L0.

SMART FUNCTIONS

LG SmartThinQ Application

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

Things to check before using LG SmartThinQ

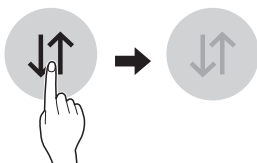
- For appliances with the  or  logo

- 1 Check the distance between the appliance and the wireless router (Wi-Fi network).

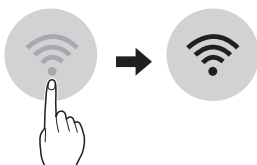
- If the distance between the appliance and the wireless router is too far, the signal strength becomes weak. It may take a long time to register or installation may fail.

- 2 Turn off the Mobile data or Cellular Data on your smartphone.


- For iPhones, turn data off by going to **Settings** → **Cellular** → **Cellular Data**.



- 3 Connect your smartphone to the wireless router.



NOTE

- To verify the Wi-Fi connection, check that **Wi-Fi**  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 SmartThinQ 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 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 registered due to problems with the wireless signal transmission. Unplug the appliance and wait about a minute before trying again.
- If the firewall on your wireless router is enabled, disable the firewall or add an exception to it.
- The wireless network name (SSID) should be a combination of English letters and numbers. (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 register the product again.

Installing LG SmartThinQ Application

Search for the LG SmartThinQ application from the Google Play Store or Apple App Store on a smart phone. Follow instructions to download and install the application.


NOTE

- If you choose the simple login to access the LG SmartThinQ application, you must go through the appliance registration process each time you change your smartphone or reinstall the application.

NOTE

- If you change your wireless router, your Internet service provider or your password after registering the appliance, please delete it from the LG SmartThinQ **Settings** → **Edit Product** and register again.
- This information is current at the time of publication. The application is subject to change for product improvement purposes without notice to users.

LG SmartThinQ Application Features

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Monitoring

Check the current status, cycle, options, running time and cycle end time for the appliance on a single screen.

Download Cycle

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 a time.

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

Machine Clean Coach

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

Set the Rinse Aid Dispenser Level, Machine Clean Reminder, Signal Level and Clean Indicator Light.

When the cycle is complete or the appliance has problems, you have the option of receiving push notifications on a smart phone.

Push Alerts

Turn on the Push Alerts to receive appliance status notifications.

The notifications are triggered even if the LG SmartThinQ application is off.

Wireless LAN Module Specifications

Model	LCW-003
Frequency Range	2412 to 2462 MHz
Output Power (Max)	IEEE 802.11 b : 17.56 dBm
	IEEE 802.11 g : 25.53 dBm
	IEEE 802.11 n : 25.29 dBm

FCC Notice

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

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

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

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

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

FCC RF Radiation Exposure Statement

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

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

Open Source Software Notice Information



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

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

Smart Diagnosis™ Function

Should you experience any problems with the appliance, it has the capability of transmitting data via your telephone to the LG Customer Information Center. NFC or Wi-Fi equipped models can also transmit data to a smartphone using the LG SmartThinQ application.

Smart Diagnosis™ through the Customer Information Center

- For appliances with the  or  logo



This gives you the capability of speaking directly to our trained specialists. The specialist records the data transmitted from the appliance and uses it to analyze the issue, providing a fast and effective diagnosis.

- 1 Call the LG Electronics Customer Information 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, place the mouthpiece of the phone close to the Smart Diagnosis™ icon. Do not press any other buttons.
- 3 Press and hold **Download Cycle** until a countdown displays on the appliance.
- 4 Keep the phone in place until the tone transmission has finished.
- 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 using the information transmitted for analysis.

NOTE

- Smart Diagnosis™ cannot be activated unless the appliance can be turned on using the **Power** button. If the appliance cannot be turned on, troubleshooting must be done without using Smart Diagnosis™.
- For best results, do not move the phone while the tones are being transmitted.
- If the call center agent is not able to get an accurate recording of the data, you may be asked to try again.
- The Smart Diagnosis™ function depends on the local call quality.
- Bad call quality may result in poor data transmission from your phone to the call center, which could cause Smart Diagnosis™ to malfunction.

SmartThinQ Smart Diagnosis™

- For appliances with the  or  logo

Use the Smart Diagnosis feature in the SmartThinQ application for help diagnosing issues with the appliance without the assistance of the LG Customer Information Center.

Follow the instructions in the SmartThinQ application to perform a Smart Diagnosis using your smartphone.

NOTE

- Smart Diagnosis™ cannot be activated unless the appliance can be turned on using the **Power** button. If the appliance cannot be turned on, troubleshooting must be done without using Smart Diagnosis™.

MAINTENANCE

To maintain performance and prevent trouble, it is important to check the outside and inside of the dishwasher, including filters and spray arms, at regular intervals.

WARNING

- When cleaning the outside and inside of the dishwasher, do not use benzene or thinner. Otherwise, it may cause fire or explosion.
- To prevent injury during care and maintenance or cleaning, wear gloves and/or protective clothing.

NOTE

- If you have not used the dishwasher for a long time, refresh the inside by running the Machine Clean cycle without detergent. When the cycle is finished, clean the inside and outside of the dishwasher according to the Maintenance instructions.

Cleaning the Exterior

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

Cleaning the Interior

- Clean the interior of the 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, without detergent, 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 the appliance.)

Seasonal Maintenance and Storage

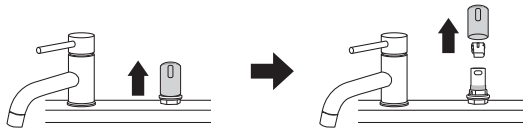
- If you will be absent for an extended period of time during warmer months, close the water valve and disconnect the power supply line, or turn off the circuit breaker. Clean the filter, tub and dispenser to prevent odor.
- If you will be absent for an extended period of time during colder months and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

Clogged Drain Air Gap or In-Sink Disposal

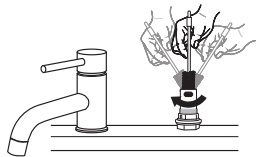
Check the drain air gap or in-sink disposal if the dishwasher is not draining well.

Cleaning the Air Gap

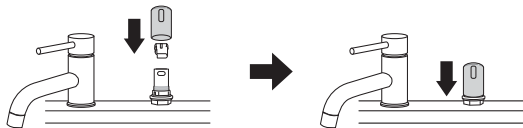
- 1 Turn off the dishwasher.
- 2 Remove the air gap cover and the plastic cap underneath it.



- 3 Clean out any debris with a toothpick or brush.



- 4 Replace the plastic cap and air gap cover.

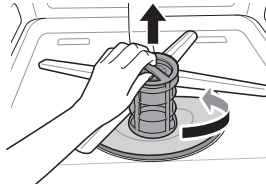


NOTE

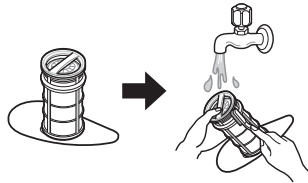
- The drain air gap and disposal are external plumbing devices that are not part of the dishwasher.
- The warranty provided with the dishwasher does not cover service costs directly associated with the cleaning or repair of the external drain air gap and disposal.

Cleaning the Filters

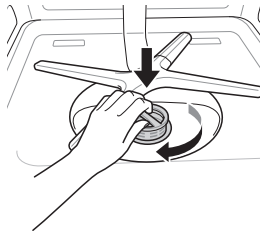
- 1 Remove the lower rack and position the bottom spray arm so a wider vee is open to the front.
- 2 Turn the inner filter counter-clockwise and take out the assembled inner filter and stainless steel filter.



- 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

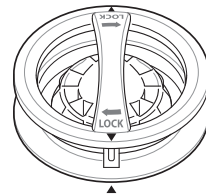
- Be cautious of sharp edges when handling the stainless steel filter.

⚠ CAUTION

- Remove food residue caught in filters to prevent the build up of odor-causing bacteria and possible drainage problems.

NOTE

- For best wash performance, clean the filter after each load. If food debris remains in the filter, it may cause an odor.
- In areas with hard water, clean the filter at least once a month with a soft brush.
- Clean the filters using non-abrasive materials and warm running water.
- Make sure the filter is assembled correctly before starting a cycle. When assembling, rotate it firmly until it clicks.



Recommended Filter Cleaning Schedule

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 mont	Every 1.5 months	Twice a week

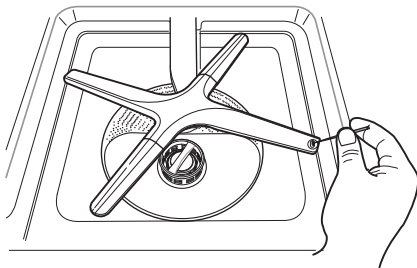
Cleaning the Spray Arms

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

It is recommended that the spray arms be cleaned once every two weeks.

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.

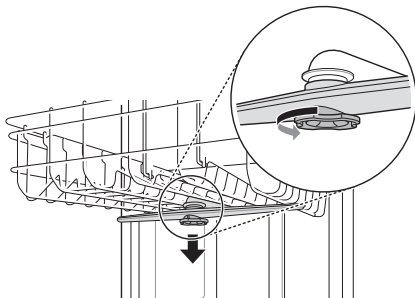


CAUTION

- To avoid breaking the rolling spray arm sections, do not pull or manually rotate them.

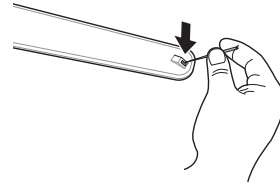
Cleaning the Upper Spray Arm

- 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 $\frac{1}{8}$ turn counter-clockwise and pulling down.



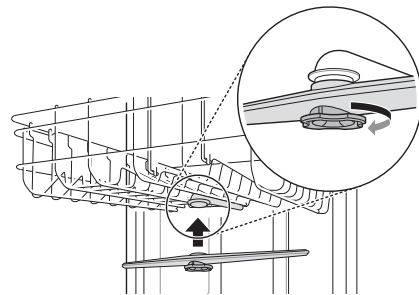
- 3 Remove food particles by rinsing or shaking the spray arm.

- 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 $\frac{1}{8}$ turn clockwise to make sure that the nut locks back into place.



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