

22 OPERATION

OPERATION

Before Using

WARNING

- To reduce the risk of fire, electric shock, or injury to persons, read the **SAFETY INSTRUCTIONS** before operating this appliance.

NOTE

- 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.

Quick Start

- Load the dishes.
- Add the detergent.
- Turn on the dishwasher.
- Check the rinse aid.
- Select the cycle and options.
- 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.

the **End** display to automatically turn off a few minutes after the cycle ends.

- It is normal for the dishwasher to chime continuously if you open it during operation or just after the cycle ends. The dishwasher is letting you know that the interior temperatures of the unit are hot and to use caution when reaching inside. Once the unit has cooled down, the chiming will stop.

For more details, refer to the online owner's manual.

CAUTION

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

NOTE

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

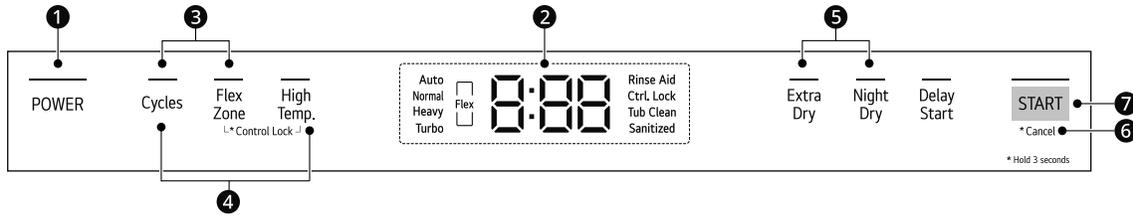
Auto-Off

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

- 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 **Extra Dry** and **Night Dry** simultaneously for three seconds to set

Control Panel

Control Panel Features



ENGLISH

1 Power On/Off Button

- Press this button to turn the washer on or off.
- 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, the dishwasher will turn on automatically and resume the cycle.

NOTE

- When opening or closing the product door, keep fingers and hands away from the control panel to avoid activating buttons.

2 Display

- **Rinse Aid**
 - This LED 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.
- **8:00 : 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.

• Ctrl. Lock, : 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 **Flex Zone** and **High Temp.** simultaneously for three seconds to activate or deactivate **Control Lock**.
- To start a new cycle, deactivate **Control Lock**.

• Tub Clean

- The **Tub Clean** LED flashes every 30 cycles. To activate or deactivate the LED, press and hold the **Cycles** and **High Temp.** buttons for three seconds.
- Select the **Auto** cycle and follow the instructions in the Maintenance section to clean the tub.

• Sanitized

- If the **High Temp.** option is added to a cycle, the **Sanitized** LED stays lit at the end of the cycle if the heated rinse reached the proper temperature.

24 OPERATION

3 Chime On/Off Button

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

4 Tub Clean Reminder On/Off Button

- To activate or deactivate the **Tub Clean** Reminder, press and hold **Cycles** and **High Temp.** simultaneously for three seconds. Please refer to the **Tub Clean** LED description under Display 2.

5 End Notification On/Off Button

- To activate or deactivate the End Notification, press and hold **Extra Dry** and **Night Dry** simultaneously for three seconds. Turn the notification ON to display **End** at the end of the cycle until you press the **POWER** button or open the door. Turn the notification OFF to turn the machine off 30 seconds after the end of the cycle.

6 Cancel Button

- 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.

7 Start Button

- To operate the machine, either press **Start** and close the door within four seconds or close the door and press **Start**.
- If more than 4 seconds have passed since pressing **Start**, an alarm will sound when the door is closed.

Wash Cycles

Select your desired cycle.

Selecting the Cycle

The default cycle is **Auto**. You can also customize these settings using the **Cycles** button.

- Press the **Cycles** button repeatedly to select the **Normal**, **Heavy**, or **Turbo** cycle.

Auto

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

Normal

This cycle is for daily, regular, or typical use to completely wash a full load of normally soiled dishes. The energy usage label is based on this cycle without any options. Select the **Night Dry** option if leaving dishes overnight.

- 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.

Heavy

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

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.

Options and Extra Functions

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

Using the Flexible Zone

This option adjusts the wash intensity to target different zones inside the dishwasher. Set it to wash just the upper rack or lower rack, or set the intensity to soft for the upper spray arm and strong for the lower spray arm.

The **Flex Zone** is off by default. Press the **Flex Zone** button to customize settings.

- Press the **Flex Zone** button repeatedly to select the 4 modes for cleaning the dishes.

Mode	Description
	Small loads & light soil <ul style="list-style-type: none"> Use just the upper rack to save energy and time.
	Small loads & heavy soil <ul style="list-style-type: none"> Use just the lower rack to save energy and time.
	Small loads & heavy soil & light/sensitive dishes <ul style="list-style-type: none"> Focus on lower rack, but also operate lightly to wash some light or sensitive dishes in the upper rack.
	Various conditions <ul style="list-style-type: none"> 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.

High Temp.

Raises the main wash temperature to improve cleaning.

If the **High Temp.** option is added to a cycle, the **Sanitized** LED stays lit at the end of the cycle if the heated rinse reached the proper temperature. If the dishwasher could not properly use the heated rinse because the **High Temp.** option was not selected, the cycle was interrupted or the water could not be heated to the required temperature, the indicator will not light up at the end of the cycle. Open and close the door or press **POWER** to turn the indicator off.

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. This option runs the ventilation fan periodically to help vent the steam from the tub.

- The **Night Dry** option is selected by default for all cycles for which it is available, except the **Normal** cycle.

Delay Start

This 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

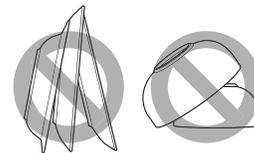
The cycle guide shows the available options for each cycle.

To see the Cycle/Option Guide, refer to the online owner's manual.

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 these instructions.

- Remove large particles of food debris from plates including bones 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 anodized aluminum
- Hand painted silver or gold leaf china
- Wood or bone handled utensils
- Iron or non-rustproof utensils
- Plastic items which are not dishwasher safe
- Sterling silver or gold-plated flatware or delicate or metal-rimmed china
- Fragile items such as crystal glasses

26 OPERATION

CAUTION

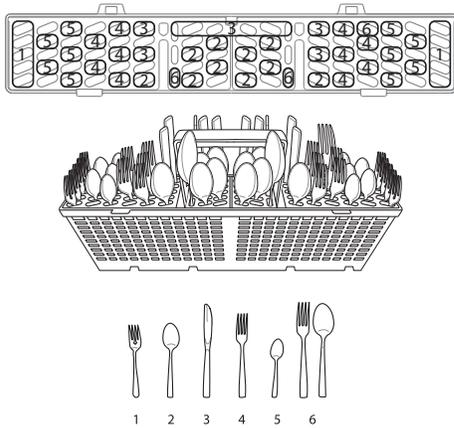
- Do not place pots or pans with plastic handles in the appliance as the handles may deteriorate due to the heat and detergent.
- Waterproof or long-lasting lipstick smudges on glasses may not be removed during the wash.

Loading the Silverware Basket

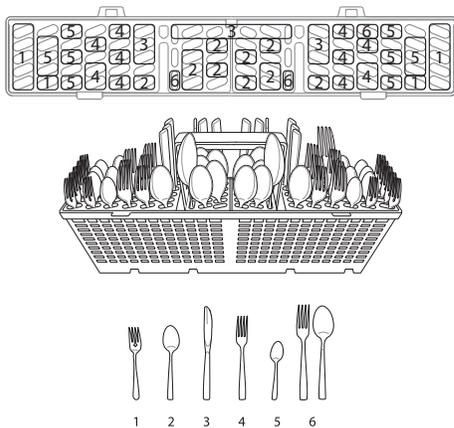
The silverware basket has separators to avoid scratching and tarnishing of delicate silverware.

Loading Silverware into the Basket

Loading 10 Place Settings



Loading 12 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.

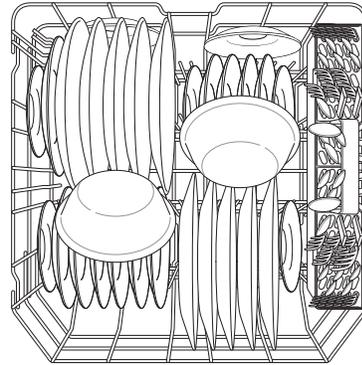
WARNING

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

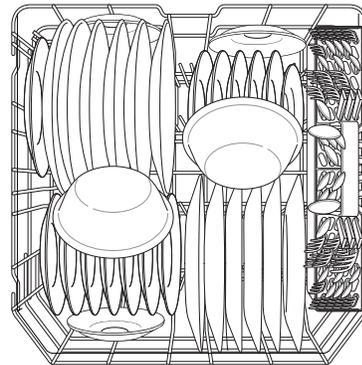
Loading the Lower Rack

Loading Dishes into the Lower Rack

Loading 10 Place Settings



Loading 12 Place Settings



Lower Rack Loading Tips:

For details, refer to the online owner's manual.

Folding Down the Lower Tines

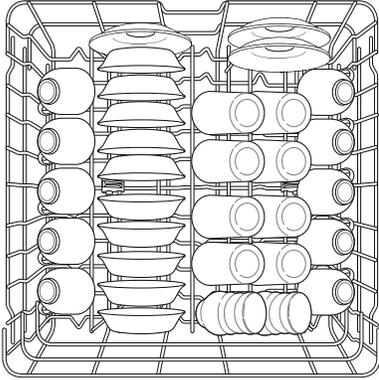
Fold tines down to fit larger dishes; pull tines back up to fit smaller dishes.

For more details, refer to the online owner's manual.

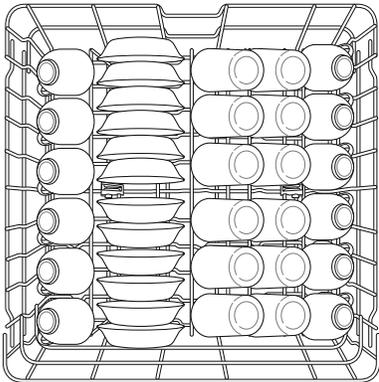
Loading the Upper Rack

Loading Dishes into the Upper Rack

Loading 10 Place Settings



Loading 12 Place Settings



Upper Rack Loading Tips:

For details, refer to the online owner's manual.

Folding Down the Upper Tines

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

For more details, refer to the online owner's manual.

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.

For more details, refer to the online owner's manual.

⚠ WARNING

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

Adding Cleaning Products

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.

⚠ 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.



For more details, refer to the online owner's manual.

28 OPERATION

Adding Rinse Aid to the Dispenser

The **Rinse Aid** LED 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.

For more details, refer to the online owner's manual.

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 adjusted from the control panel.

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.

- 1** Ensure the appliance is off.
- 2** Press **Power** and **Delay Start** 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.

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** LED flashes when more rinse aid is needed, unless the rinse aid dispenser setting is set to L0.

SMART FUNCTIONS

LG ThinQ Application

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

LG ThinQ Application Features

- **Smart Diagnosis**
 - This function provides useful information for diagnosing and solving issues with the appliance based on the pattern of use. Select **Smart Diagnosis** in the app and follow the instructions. For additional information, refer to the online owner's manual.

Installing the LG ThinQ Application

Search for the **LG ThinQ** application from the Google Play Store or Apple App Store on a smartphone. Follow instructions to download and install the application.

30 MAINTENANCE

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.

Cleaning and Care

Cleaning the Exterior

- Do not use scrub pads or abrasive cleaners on the exterior of the dishwasher.
- Most soil can be removed using a soft, damp cloth or sponge. A mild soap can be used to help release stubborn soil. Rinse and wipe dry with a soft cloth after cleaning.
- Stainless steel surfaces can be polished using a stainless steel cleaner. Follow the instructions on the cleaner, and wipe in the direction of the grain.

CAUTION

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

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.)
- Cleaning the Tub
 - Run the **Auto** cycle once a month or after every 30 cycles to eliminate residual soil, odor, white spots and other dirt inside the appliance.

1 Remove all dishes from the appliance.

2 Add 3 tbsp. (40 g) of citric acid to the detergent dispenser or follow the manufacturer's instructions if using a dishwasher cleaning agent. Do not use dishwasher detergent.

3 Press **Cycles** to select the **Auto** cycle.

4 Press **Start**.

NOTE

- Run the **Auto** cycle once a month, or more often if needed, to remove detergent buildup and other residue.
- If you have not used the dishwasher for a long time, refresh the inside by running the **Auto** cycle without detergent. When the cycle is finished, clean the inside and outside of the dishwasher according to the **MAINTENANCE** instructions.

Clogged Drain Air Gap or In-Sink Disposal

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

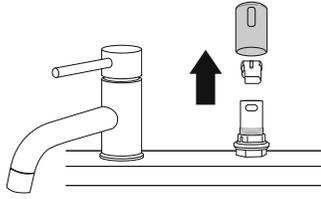
NOTE

- 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.

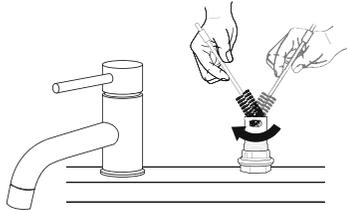
Cleaning the Air Gap

1 Turn off the dishwasher.

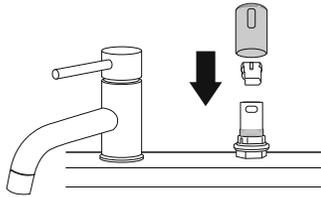
- 2** Remove the air gap cover and the plastic cap underneath it.



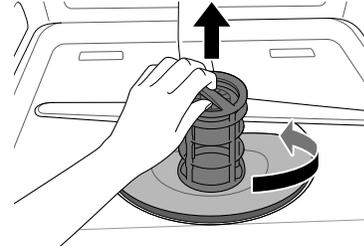
- 3** Clean out any debris with a toothpick or brush.



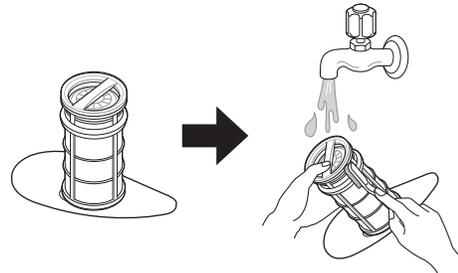
- 4** Replace the plastic cap and air gap cover.



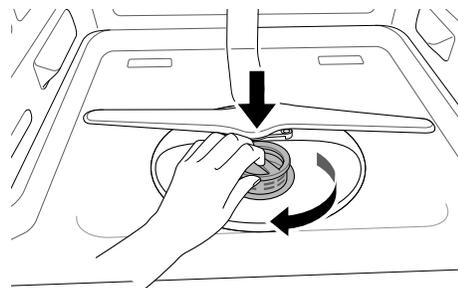
- 2** Turn the inner filter counter-clockwise and take out the assembled inner filter and stainless steel filter. With the filters removed, check the sump opening and remove any foreign materials, if needed.



- 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.



Cleaning the Filters

⚠ WARNING

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

⚠ CAUTION

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

NOTE

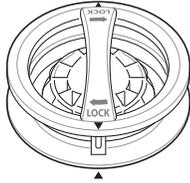
- For best wash performance, clean the filter after each load. If food debris remains in the filter, it may cause an odor.
- In areas with hard water, clean the filter at least once a month with a soft brush.
- Clean the filters using non-abrasive materials and warm running water.

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

32 MAINTENANCE

NOTE

- Make sure the filter is assembled correctly before starting a cycle. When assembling, rotate the filter 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
1 - 3	Every 6 months	Once a year
4 - 7		
8 - 12		Every 6 months
13 - 14		

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

Cleaning the Spray Arm

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.

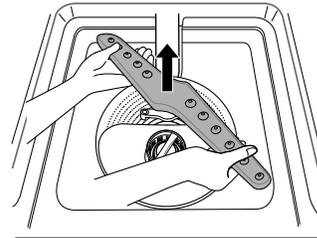
Cleaning the Lower Spray Arm

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

- 2 When cleaning is necessary, remove the lower spray arm by pulling up.

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

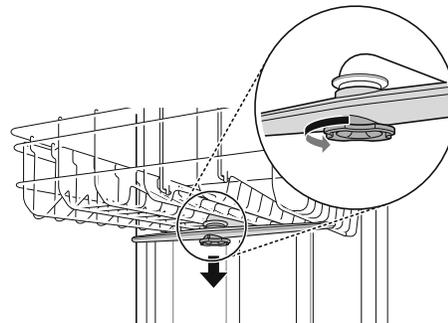
- 4 After cleaning the lower spray arm, replace it by pushing down until it clips into place. Be sure that the spray arm is able to turn freely.



Cleaning the Upper Spray Arm

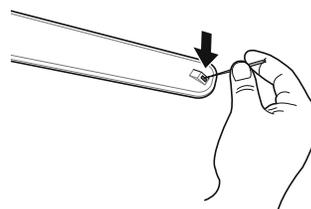
- 1 Pull the upper rack forward. Make sure that the water jet holes are not blocked by food particles.

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

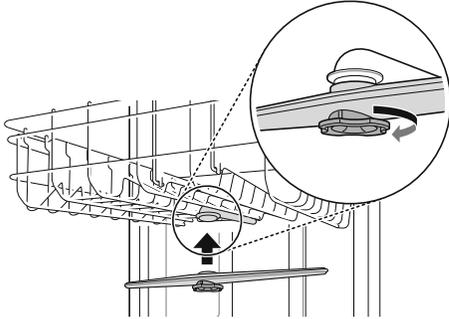


- 3 Remove food particles by rinsing or shaking the spray arm.

- 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 under running water.
- 6 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.



- 7 After assembly, make sure that the spray arms rotate freely.

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.