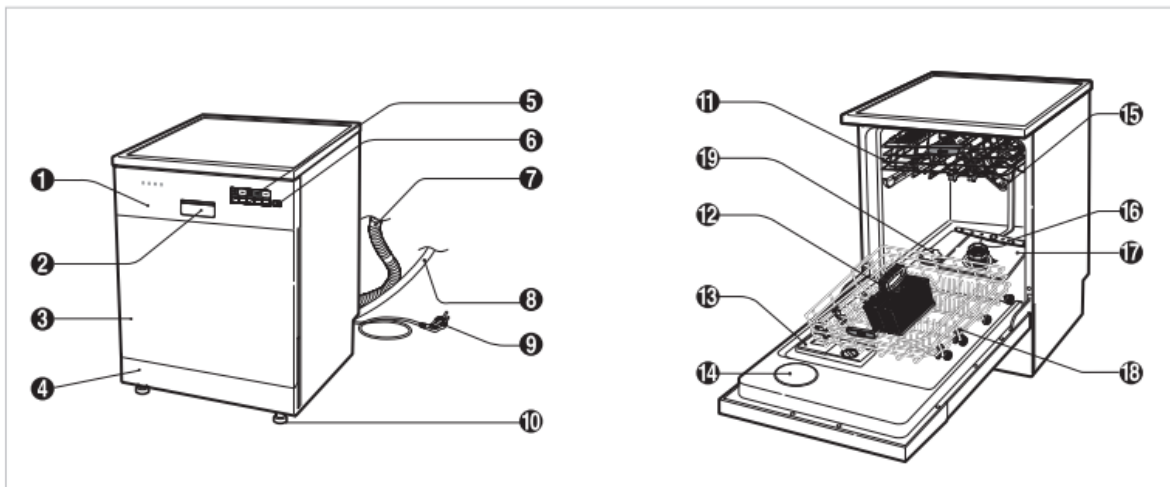


PARTS IDENTIFICATION



1. Control panel
2. Door handle
3. Front cover
4. Lower cover
5. Display window
6. Power button
7. Drain hose
8. Inlet hose
9. Power cord
10. Adjustable leg
11. Upper rack
12. Cutlery basket
13. Detergent and rinse aid dispenser
14. Vapor vent cover
15. Upper spray arm
16. Lower spray arm
17. Filter ASM
18. Lower rack
19. Salt container cap

Accessory

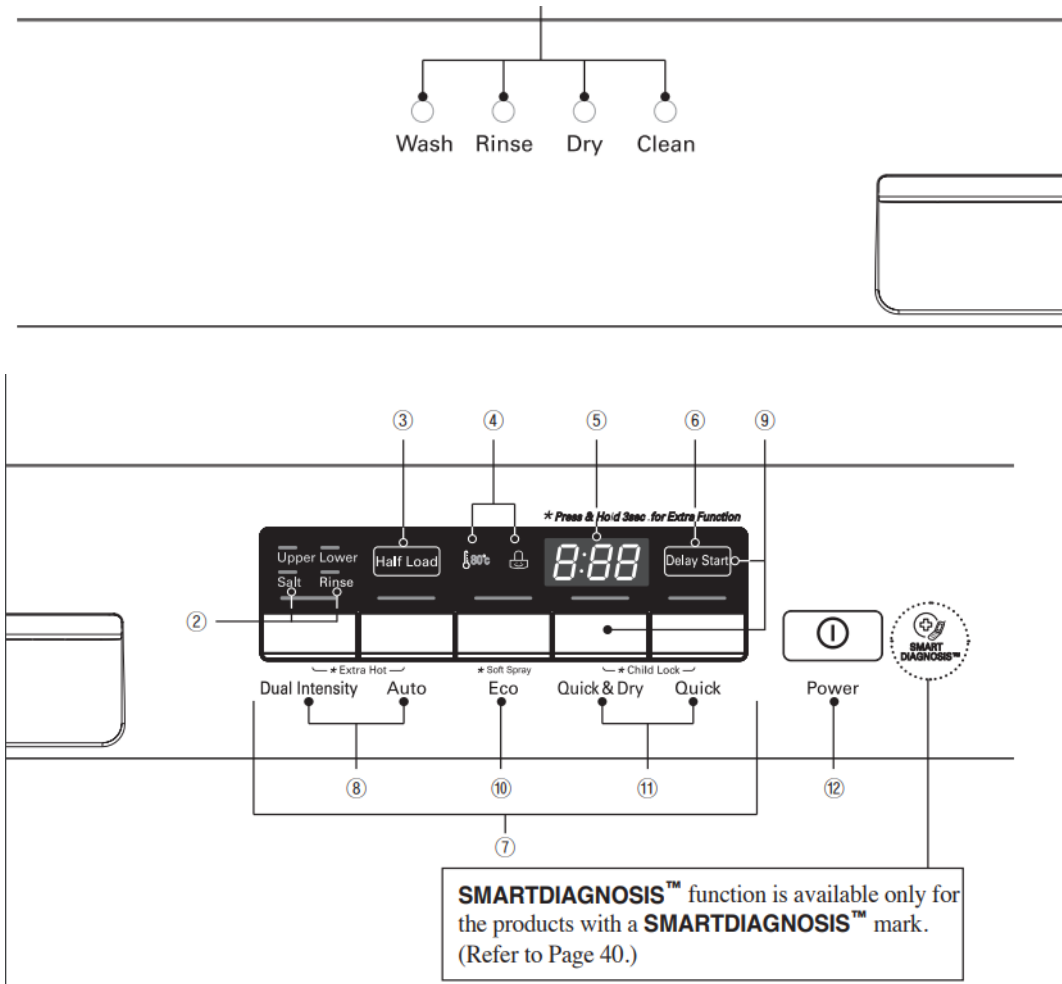


Funnel

- Funnel

✳ The appearance and specifications may vary without notice.

FUNCTION OF CONTROL BUTTONS



① Process Indicator

- Indicates current program phase.

- The **Wash, Rinse** and **Dry** lamps will flash during each phase of washing process.
- The **Clean** lamp flashes for 4 minutes at the end of the cycle.

② Salt & Rinse Refill Indicator

- **Salt** : Refill with special salt when the **Salt lamp** turns on.
- **Rinse** : Refill with rinse aid when the **Rinse** turns on.

NOTE The Dishwasher can be used without salt if not required, however, the hardness level will need to be set to H0 so that the indicator does not remain lit. (See page 14.)

③ Half Load

- In case of a small load, use upper or lower rack to save energy.
- With each press, you can select the **Upper** or **Lower** rack only.
- In case you don't select this button, the machine always operates the vario washing, which operates the upper and lower spray arm alternately.

④ Extra Hot & Child Lock Indicator



- Lamp will turn on when the Extra Hot setting is on.
- Lamp will turn on when the Child Lock setting is on.

⑤ Time Left

- Before starting, the display window shows the running time of the selected program(except for the Auto programme).
- After starting, the display window shows the remaining time.
- If the dishwasher has a problem, the error type will be displayed. (OE, IE, AE(EI), FE, HE, tE, LE, nE)
- If these error letters are displayed, please refer to the trouble shooting on page 29 and follow the guide.

⑥ Delay Start

- If you want to delay the start of the selected program, press this button.
- Press this button to increase the starting time by 1 hour increasements.
- The delay start time can be adjusted from 1 hour to 19 hours.

⑦ Program

- Press the cycle that corresponds to your desired wash cycle.

⑧ Extra Hot

- If you select the **Extra Hot** function, the operating temperature will be up to 80°C. (Dual Intensity, Auto, Eco, Eco and Soft Spray)
- To engage the **Extra Hot** rinse in the allowable cycles, hold down the **Dual Intensity & Auto** buttons simultaneously.

⑨ Beep On/Off

- The dishwasher must be switched on.
- The beep on/off function can be engaged or disengaged by pressing the **Delay Start** and **Quick & Dry** buttons simultaneously for a few seconds.

⑩ Eco and Soft Spray

If you want to use **Eco and Soft Spray** course, press & hold **Eco** button for 3 seconds.

⑪ Child Lock

- Used to lock or unlock the control buttons to prevent all the setting from being changed by a child after starting the wash cycle.
- To activate or release the **Child Lock** function, press the **Quick & Dry** and **Quick** buttons simultaneously for a few seconds while the dishwasher is in operation.
- All controls will be disabled except the **Child Lock** and **Power** buttons.
- Turning off the dishwasher will not reset the **Child Lock** function. You must release the **Child Lock** before you can operate the dishwasher. The Child Lock function cannot be engaged whilst the unit is in the off (stand by) mode.

⑫ Power

- For operating, press this button first for power on.
- After the programme has completed, this button automatically switches off for safety and energy saving.
- The unit will automatically turn off if the programme is interrupted and not resumed, or started within 4 minutes.
- In case of mild power surges to the machine, the power may be automatically turned off for safety.
- To turn the power off during a programme, press the Power button twice

Programme	Default Spray	Extra Hot	Half load (Upper) (Lower)	Child Lock	Delay Start
Quick	Strong		○	○	○
Eco	Strong	○	○	○	○
Eco Plus	-	○	○	○	○
Auto	-	○	○	○	○
Quick & Dry	Strong			○	○
Dual Intensity	Medium	○	○	○	○

BEFORE USING FOR THE FIRST TIME

Hardness setting

This model has a water softener to soften hard water.

Please read these notes carefully for correct operation.

In order to provide satisfactory rinsing results, the dishwasher requires soft water, i.e., containing little or no lime, otherwise water stains will be left behind on the dishes and interior containers. If the tap water exceeds a certain level of hardness, it must be softened, i.e., decalcified. This is achieved by adding a special salt to the water softener inside the dishwasher. The required amount of salt is set up according to how hard your tap water is.

Step 1. Checking your water hardness level

■ Method 1

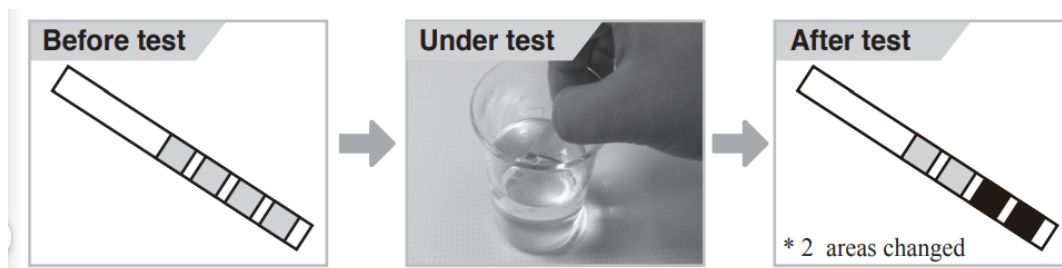
- Check the water hardness in your area.

(Your water supply management agency can help you with this.)

■ Method 2

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

- ① Immerse the test strip for 30 seconds (Not in running water!)
- ② Shake off liquid from the test kit, and then wait for 1 minute for checking the change of color.
- ③ Check the setting value applicable to the number of changed colors.



< Water hardness level >

Number of the areas (red-violet)	Hardness range					Water quality	Softening system level
	°d	°e	°f	mmol/l (Ca+Mg)	mg/l Ca		
0	<4	<5	<7	<0.7	<29	soft ↕ very hard	H0
1	4 - 7	5 - 9	7 - 13	0.7 - 1.3	29 - 50		H1, H2
2	7 - 14	9 - 17.5	13 - 25	1.3 - 2.5	50 - 100		H3, H4
3	14 - 21	17.5 - 26	25 - 38	2.5 - 3.8	100 - 150		H5, H6
4	>21	>26	>38	>3.8	>150		H7

1 °e = 14.25 mg/l CaCO

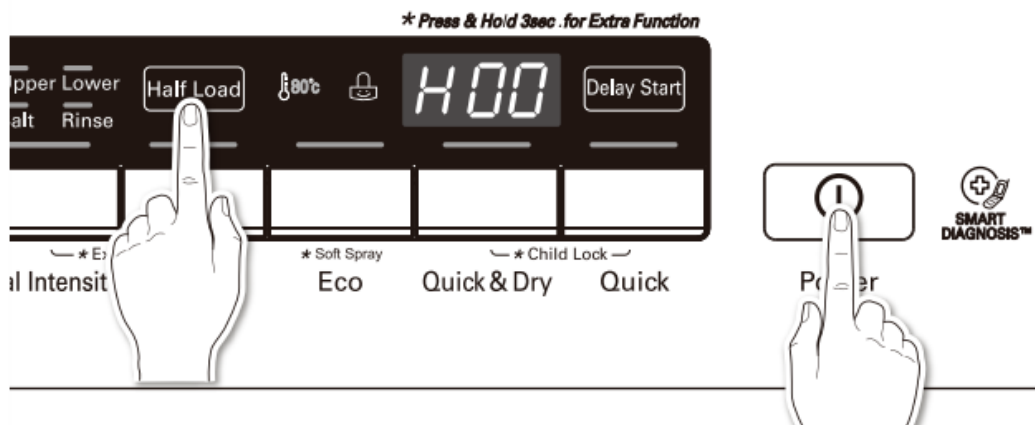
1 °f = 10 mg/l CaCO

1 °d = 10 mg/l CaO (=1,78 °f) (=1,25 °e)

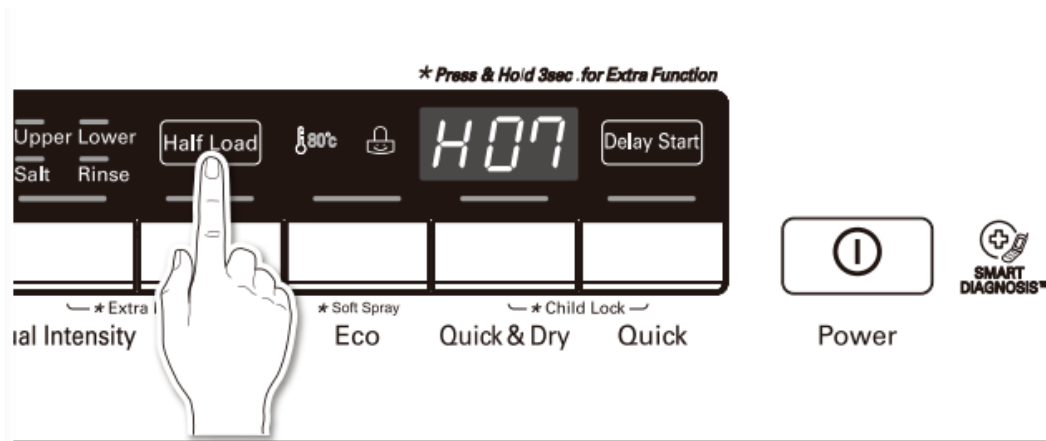
Step 2. Setting up the softening system level (hardness level)

For effective washing performance, adjust the setting corresponding to the hardness level of water used in water supply. The water softener has 8 adjustment levels, and the dishwasher is programmed at the factory for a water hardness level of H00. You can check the default setting value and adjust it in the following manner:

1. Press **Half Load** and **Power** button simultaneously.
(Current setting value indicated.)

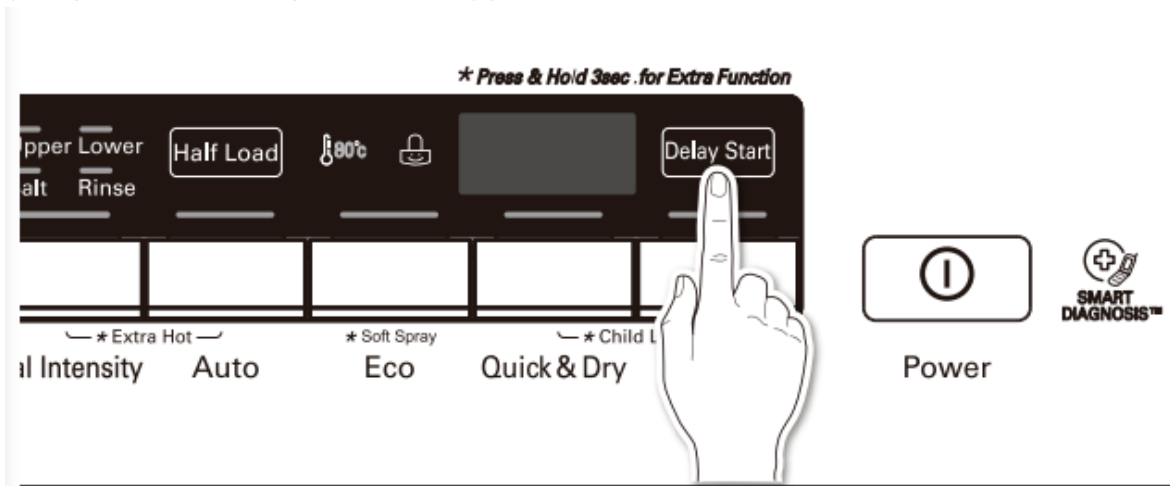


2. Press the Half Load button, and then set up your intended value. (Scope of setting value : H00~H07)



3. Press the Delay Start button for saving the setting.

(The power turns off upon the saving.)



* The display may vary, depending on the model.

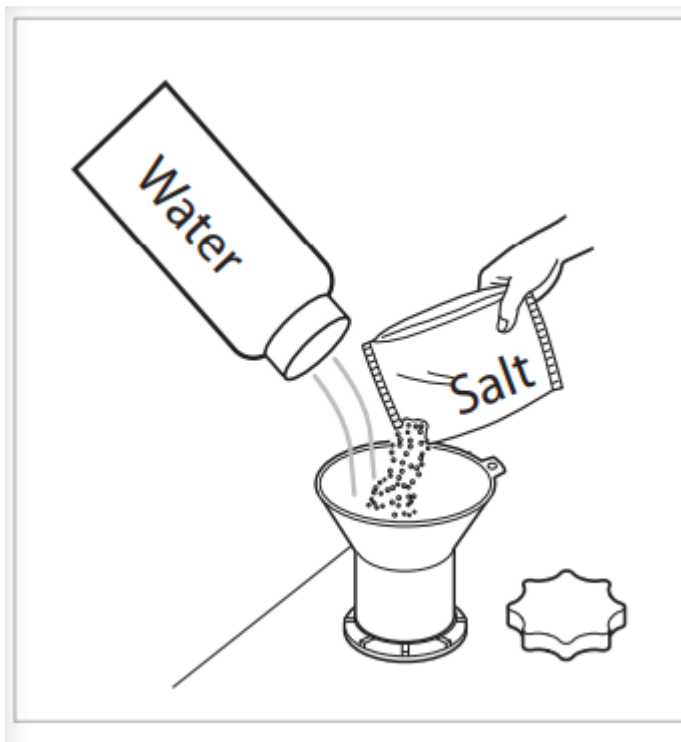
NOTE

- The 'Salt Filling' light turns on in the display if salt is not in the softening system.
- If the hardness setting is set to H0, no light turns on in case of no salt.

Step 3. Salt Filling (Hard water requires salt filling)

Salt filling must be made before starting the washing program. In case of insufficient salt, the 'Salt Filling' light turns on in the display, unless the Hardness level has been set to H0. (refer to page 15)

- 1) Remove the lower rack and remove the cap of the watersoftener placed in the left side of the bottom of the washing part by rotating it counterclockwise.
- 2) Before using your dishwasher for the first time, it is necessary to **Pour 1.5kg of salt and 1 litre of water** at the same time if intending to use the water softener system. Refer to page 15 for Hardness level settings. (Use a funnel when refilling salt)



- 3) Wipe off any spilled salt around the water softener.
- 4) Fasten the cap tightly. (Loosely fastened cap may cause rust due to salt spilled into the container.)
- 5) Run the Quick course without dishes.

WARNING

- Do not pour any detergent in the water softener. It may cause a malfunction.

NOTE

- Water softening salt can be purchased from salt distributors.

! Check point - Note for Fastening the Cap of the water softener.

- Seal the cap properly (by aligning it horizontally and turning it clockwise.)

<Wrong assembly>



<Normal assembly>



Step 4. Adding rinse aid

Rinse aid must not be added if dish washing tablets are used which contain a built in Rinse aid.
Too much or too little rinse aid can inhibit the drying performance.



- 1) Press the lever on the top of the rinse aid compartment so that the flap opens.
- 2) Pour the rinse up to the maximum level indicator at the bottom.
- 3) Adjust the quantity of rinse by rotating the adjuster.
- 4) Close the cap after adjustment.

***Rinse level setting**



- You can adjust the quantity of rinse from level 1 to level 6.
- The higher the level, the more rinse aid dispensed.
- If drying performance is not good, adjust the indicator to a higher level.

NOTE

- If, after washing, you notice cloudy spots, streaks or water marks on your glassware, you need to increase the setting level. If the glass is smeared or foam is present on the bottom, select a lower setting.

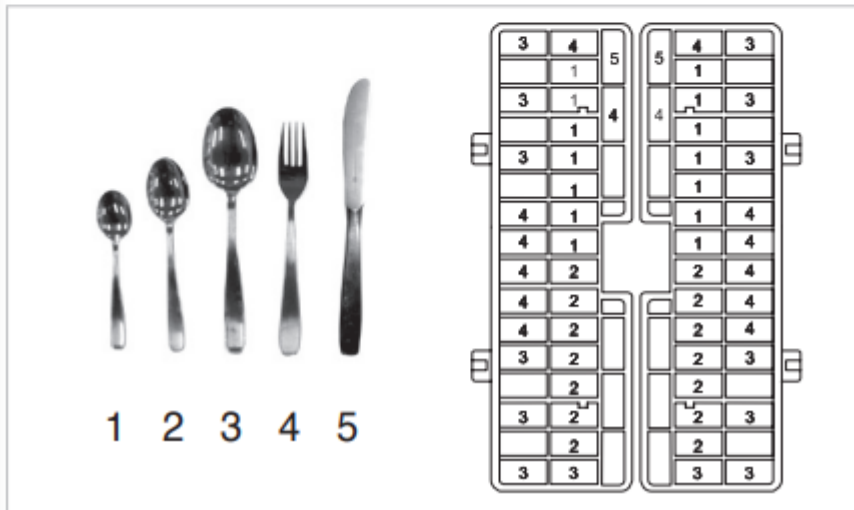
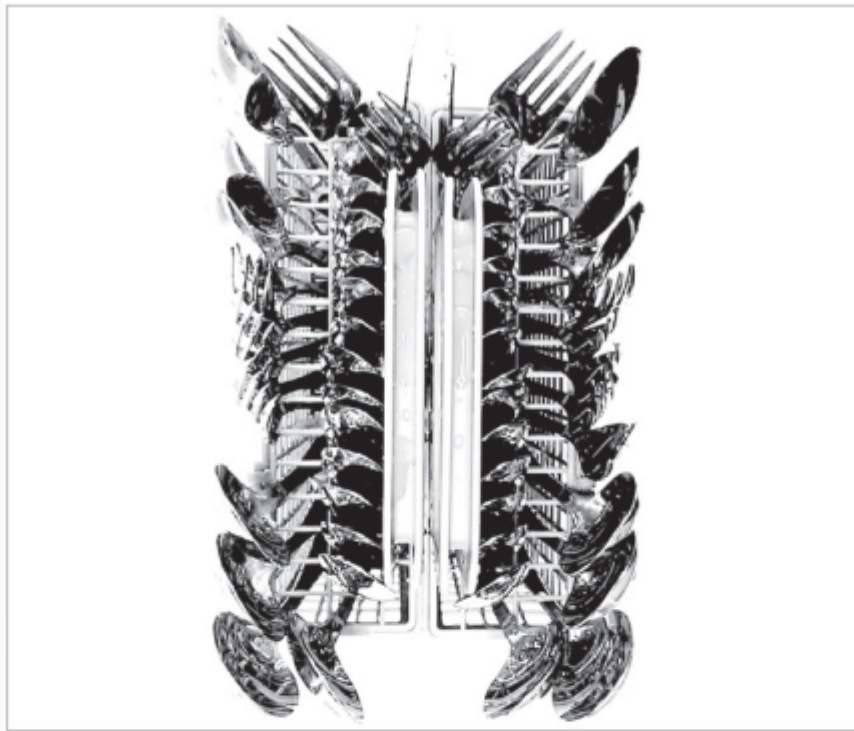
CAUTION

- If the rinse aid compartment flap is not closed properly, a large amount of rinse aid will release into the tub and cause washability problems.

INFORMATION FOR ENERGY TEST

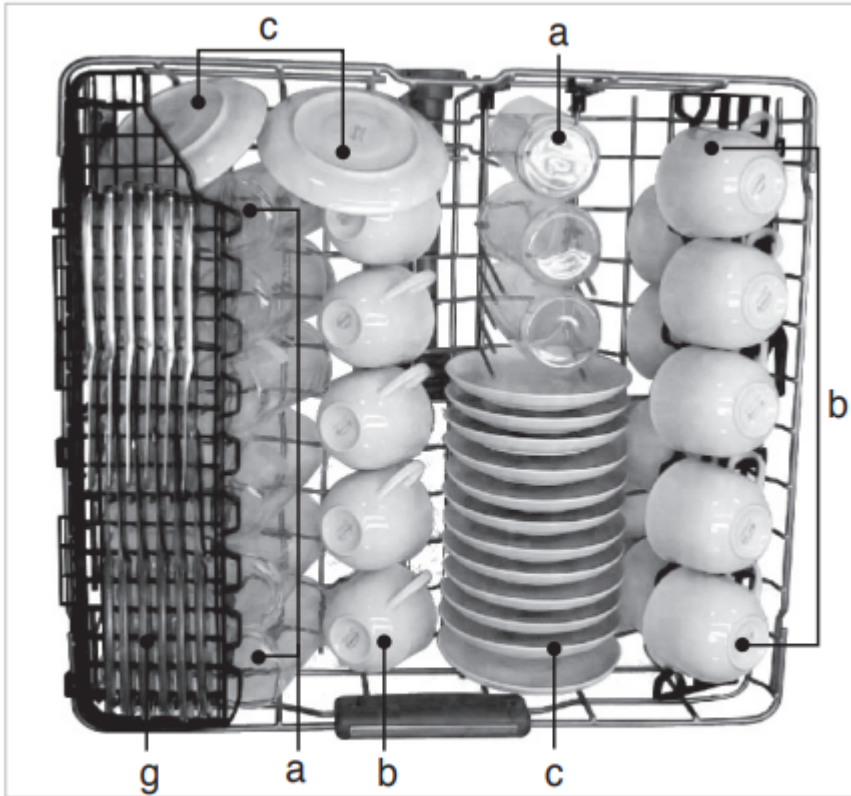
- Appliance loaded in accordance with standard specifications.
 - Capacity : 14 place settings
 - Comparability course : Eco and Soft Spray Rinse Aid setting : 4
 - Reference cleaner : 25g of detergent onto the inside surface of the door.
 - Door is opened at the end of the drying cycle for the drying performance test. (Door position : Open 50 mm)
 - Height-adjustable Rack-U must be inserted into the uppermost position.

1. Cutlery Basket



2. Upper Rack

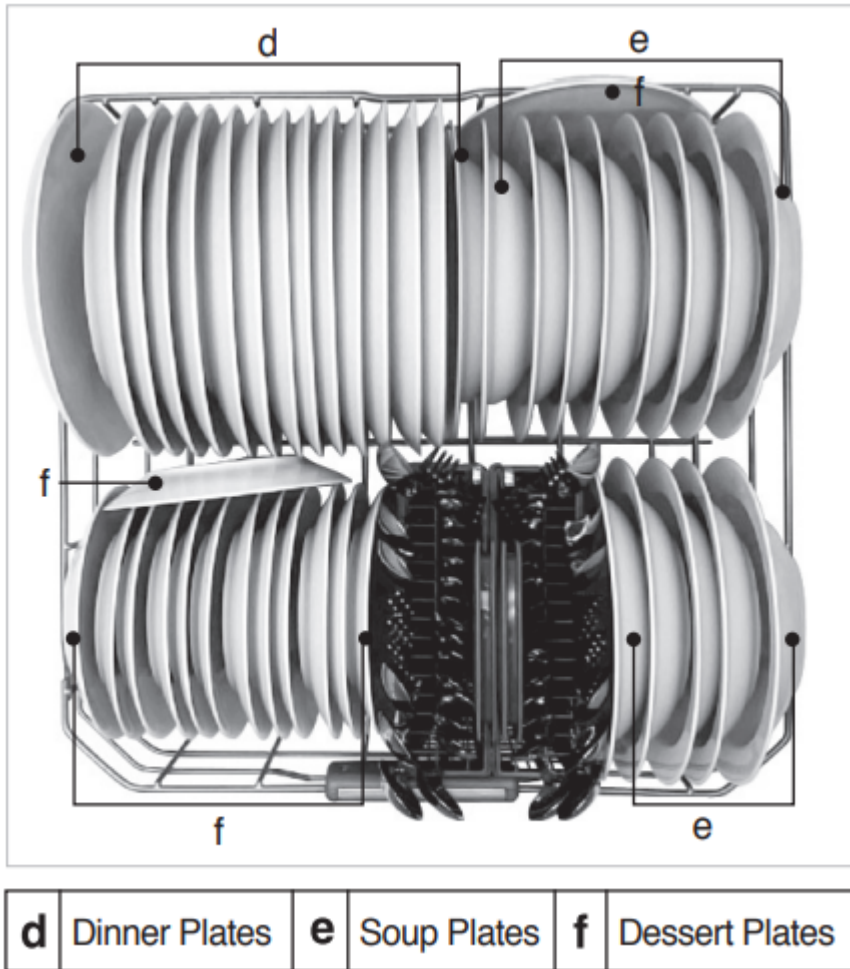




a	Glasses	b	Cups	c	Saucers	g	Knives
---	---------	---	------	---	---------	---	--------

3. Lower Rack

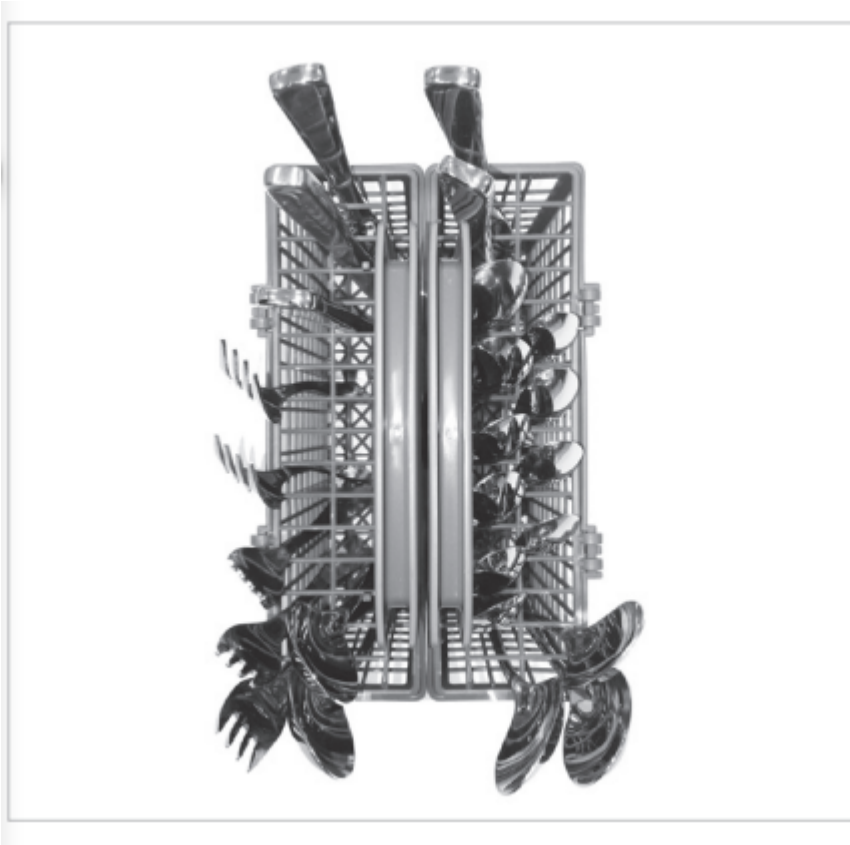




HOW TO USE AND OPERATE

Daily use load

1. Cutlery Basket



2. Upper Rack



3. Lower Rack



CAUTION

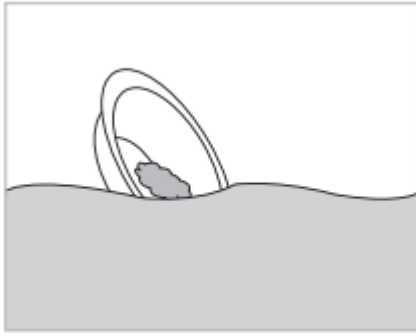
- Do not place pots or pans with plastic handles in the washer as the handles may deteriorate due to the heat and detergent.
- Water proof or long lasting lipstick smudges on glasses may not be removed during the wash.

For effective washing performance, always follow the following instructions.

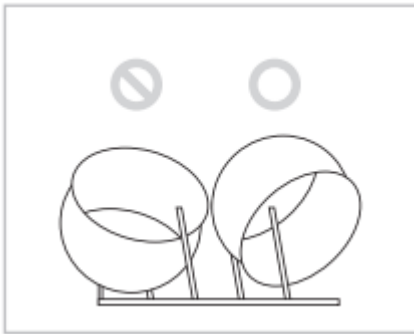
Remove large particles of food debris from plates including bones etc. before loading.



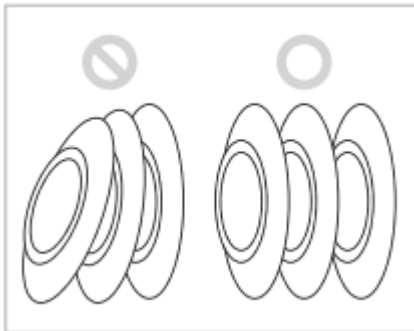
Items with burnt on food should be soaked prior to loading in the dishwasher.



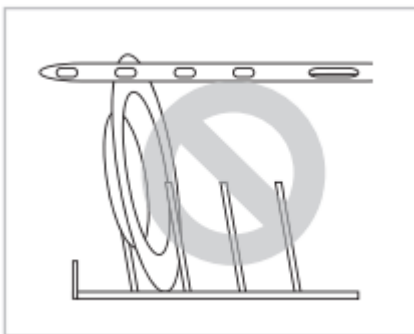
Deep based items should be placed upside down.



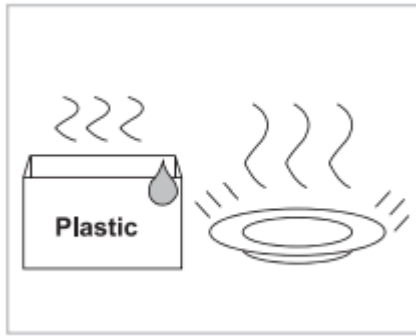
Make sure that all items do not touch each other.



Take care not to obstruct the rotation of the spray arm.



Plastic items will not dry well, compared to other items.



NOTE

Non dishwasher safe items The combination of high water temperatures and dishwasher detergent may damage particular items, therefore we do not recommend using the dishwasher to wash the following:

- 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

1. Cutlery Basket

Place forks and spoons in the cutlery basket with their handles downwards.



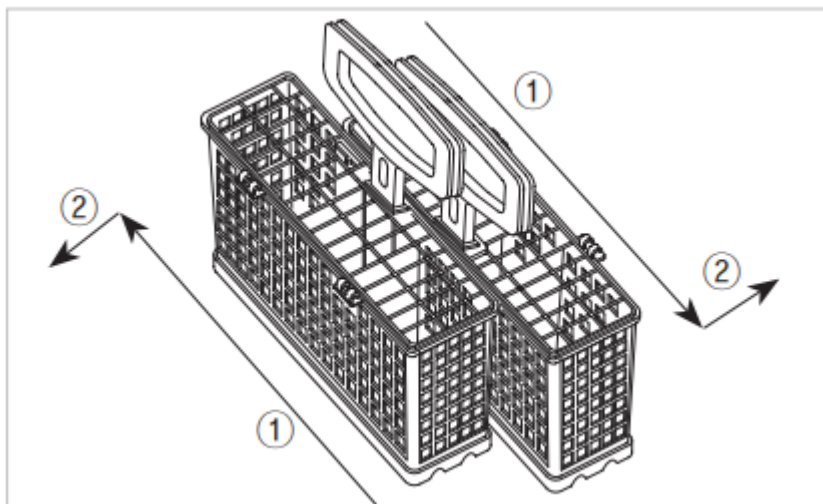
For Large utensils, such as whisks, the cover can be opened by being unhinged.

Take care not to obstruct the rotation of spray arms.



The cutlery shouldn't be longer than 18cm. (In this case, use the cutlery rack.)

The basket can be split along its length, increasing the lower rack's loading versatility.



Slide two baskets in opposite directions, then pull them apart.

WARNING

- To prevent injuries, place knives and other utensils with sharp points on the cutlery rack.
- If you want to load them in the cutlery basket, place them with the pointed edges facing downwards.

2. Lower Rack

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





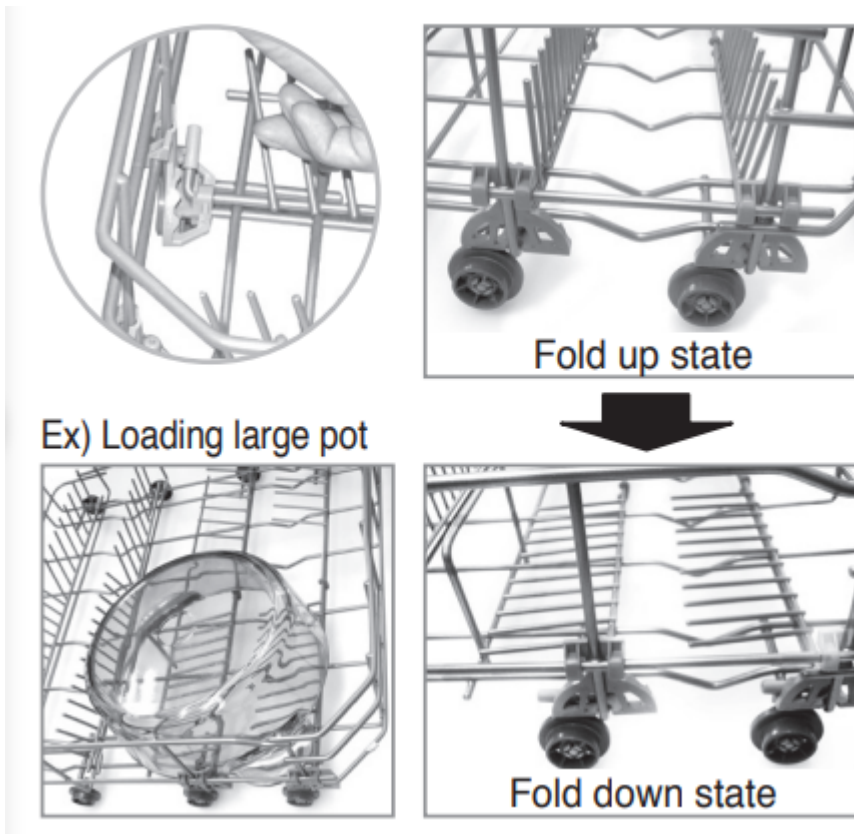
Plates should be positioned upright and facing the centre of the rack and pots, pans and large dishes must be turned upside down.

Take care not to obstruct the rotation of the spray arms.



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

- **How to fold down**



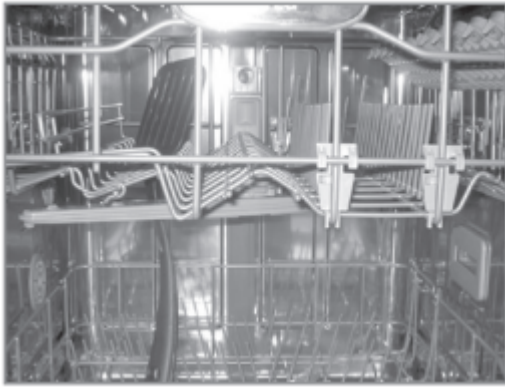
3. Upper Rack

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

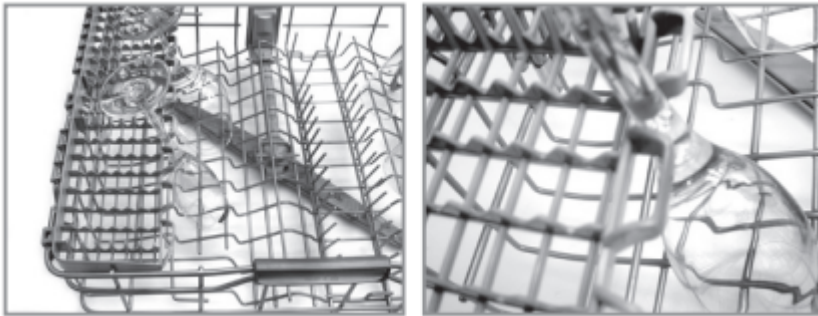


Plates should be positioned upwards with the plate bottom facing the front of the rack. Cups, glasses and bowls must be positioned upside down.

Take care not to obstruct the rotation of the spray arm under the upper rack.



The knife rack provides support for long stem glasses.



The cup racks can be folded up out of the way for tall crockery items.



- **Adjusting the height of the upper rack**

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

- Move the upper rack to the lower position



Pull up the levers on either side of the rack.

- Move to upper position



Lift the rack upward.

There is a 45mm 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.

WARNING

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

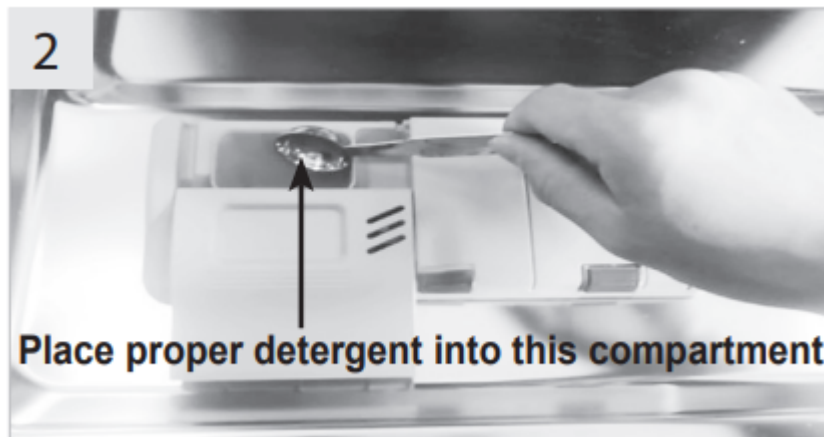
4. Adding Detergent

1. Push button to open



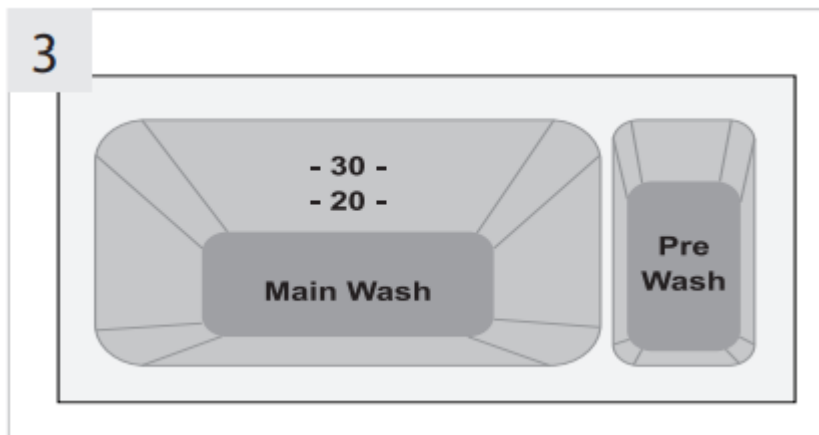
Push the button beside the detergent injection hole to open the cover.

2. Place proper detergent into this compartment



Place the proper quantity of detergent into the detergent holder. Detergent Tablets should be place on the bottom of the tub next to the filter.

3.



The detergent holder is divided into 'Main Wash' and 'Pre Wash', and up to 50g of detergent can be loaded in the main wash section.

4.



Close the cover of the detergent container. If large tablets are placed in the detergent holder, it may not close, or allow the lid to release during the wash.

PROGRAMME	AMOUNT OF DETERGENT	
	Pre-wash (Onto the door)	Main-wash (Dispenser)
Dual Intensity	5g	30g
Auto	7g	25g
Eco	-	25g
Quick&Dry	5g	20g
Quick	-	10g

NOTE

Use only the detergent intended for dishwashers (Manual dishwashing detergent instead of ordinary detergent.)

After completion of the wash program, check whether the detergent was completely washed out.

NOTE



Cautions for using tablet (2in1, 3in1) detergent

When using some dishwasher detergent tablets, they may become stuck in the dispenser due to their excessive size. If this occurs, the dispenser may remain closed causing poor wash results. Tablets can be placed onto the base of the wash tub next to the filter before starting the cycle.

Do not use liquid rinse aid if the detergent tablet contains a rinse aid agent. Otherwise, excessive foaming will occur and cause poor drying and streaking on dinnerware. If dry performance is not good or water stain remains, you need add an extra rinse.

WARNING

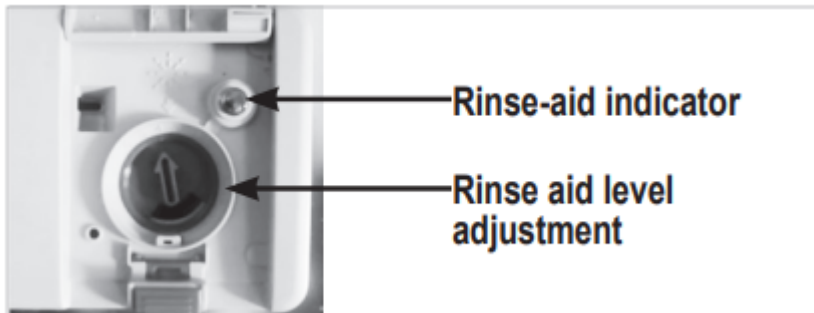
- Dishwasher detergent and rinse aid contain chemical components, like all other household detergent. So, they must be kept out of the reach of children.

5. Refilling

For maintaining the effective wash performance of the dishwasher, checking and refilling of rinse aid and salt should be made on a regular basis.

■ Checking the remaining rinse aid

1) Check the rinse aid indicator

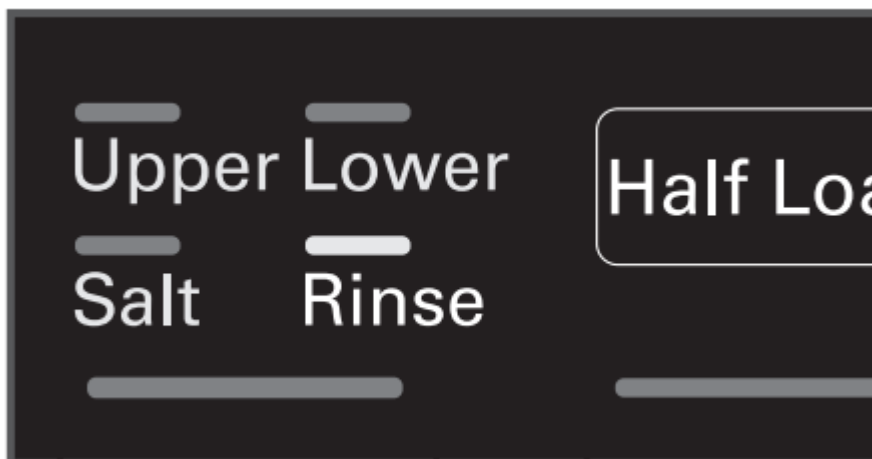


< Black: Sufficient rinse aid / Clear: No rinse aid >

2) Check the rinse aid refilling lamp on the display.

■ Checking salt

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





When the lamp is lit, it means the Salt Aid is almost empty. If necessary, refill the Salt Aid chamber as soon as possible.



When the lamp is lit, it means the rinse aid is almost empty. Refill the Rinse Aid chamber as soon as possible.

WARNING

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

6. Select the Programme

- ▶ Running time may vary according to the water temperature, water pressure and voltage.
- ▶ Running time doesn't include Cool Dry - 60min.

Programme	WASH		RINSE			DRY	COOL DRY
	Pre Wash	Main Wash	Rinse 1	Rinse 2	Heating Rinse		
Dual Intensity	45 °C	60 °C			70 °C		■■■■■■■■
Auto	<i>The programme sequence is optimised and adapted in accordance with how dirty the dishes are.</i>						
Eco	40 °C				41 °C		
Quick&Dry		65 °C			70 °C		■■■■■■■■
Quick		60 °C			65 °C		■■■■■■■■

Dual Intensity

This cycle washes the upper and lower racks at different spray intensities. The lower rack is washed with a strong spray for hard to clean items, while the upper rack is washed with a soft spray for more delicate items.

This provides optimum cleaning performance for mixed loads, including fine china and stemware.

Auto

During the Auto programme, the degree of soiling in the dishes is determined by the amount of clouding in the water.

According to the degree of soiling, the programme automatically adjusts the washing time and temperature.

As a result, the energy and water consumption is kept as low as possible.

The "F" on display means that the sensor is sensing the status of the dishwasher.

Eco

This program offers the most efficient energy and water consumption for a good washing performance on a moderately soiled load, but compromises the drying result as it uses very little energy.

Eco and Soft Spray program is the one to be used for a normally soiled load.

Quick & Dry

This programme offers good washing performance within 60 minutes.

To assist drying, we recommend to open the door partially when you see small amounts of wet streaks or drops after the cycle. Opening the door right after the cycle may set off the inbuilt High temperature alarm.

Quick

Is best used for lightly soiled recently used dishes and cutlery.

Auto Restart

If the dishwasher is turned off by a power failure, it will restart from the position it stopped at, and resume accordingly when you press the Power button again.

7. Drying

- For better drying performance, Cd (Cool Dry – 2 hours) program will be added after completion of all programs. (You are free to take dishes out in the Cd condition)
- Selection of 'High Temperature + Rinse' can help improve the drying performance.
- Plastic items will have a poorer drying performance than other items.
- To assist drying, we recommend that the door be partially opened after the program.
- Make sure that all items do not touch each other
- Too much or too little rinse aid can inhibit the drying performance. Refer to page 17.

Operating Sequence (Summary)

1. Press the Power button.

The unit will turn on. Observe the indicators. Make sure that all dishes do not touch each other. Take care that the dishes do not obstruct the

2. Check there is rinse aid and salt.

Check the rinse aid and salt refilling indicators. If the corresponding indicator lights illuminate, refill the rinse aid and salt. For more information, refer to page 24.



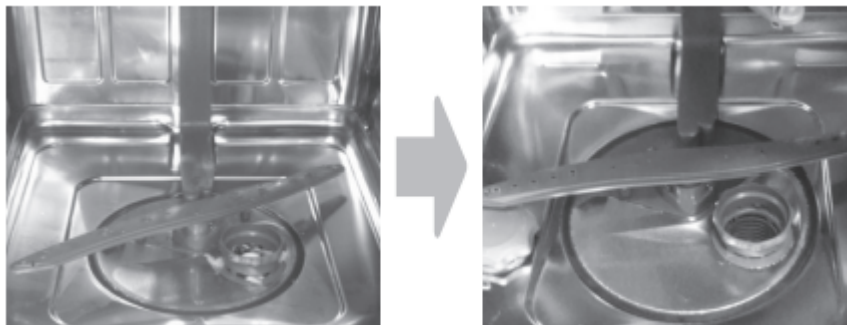
Salt refilling indicator



Rinse aid refilling indicator

3. Open the door and check the filters

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



4. Ensure the spray arms can unobstructedly rotate.

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

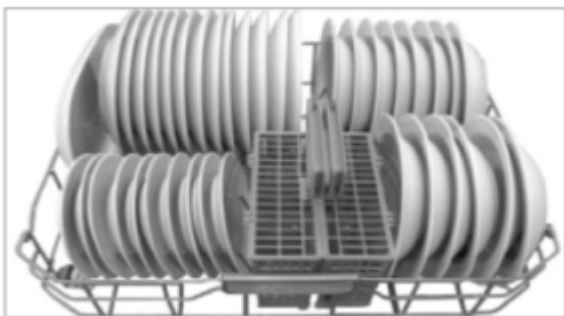


CAUTION

Do not load any items in upper rack when the lower rack is pulled out and loaded. (The dishwasher may tilt to the front.)

5. Load the dishes in the basket.

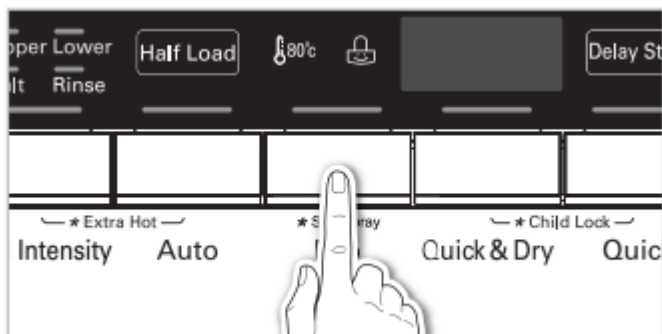
Make sure that all dishes do not touch each other. Take care that the dishes do not obstruct the rotation of spray arms.



6. Add the proper amount of detergent.



7. Set and start the program (the cycle will start automatically 4 seconds after any setting is selected)



8. Program ends.

After the program ends, dry cycle (Cd) will operate. During this cycle, the dishes can be removed if you wish. The Cd cycle will be cancelled when the door is opened.

CAUTION

- Empty the lower rack first and then the upper one. (It will avoid water dripping from the upper rack onto the dishes below)

WARNING

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



User Maintenance & Cleaning Instructions

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

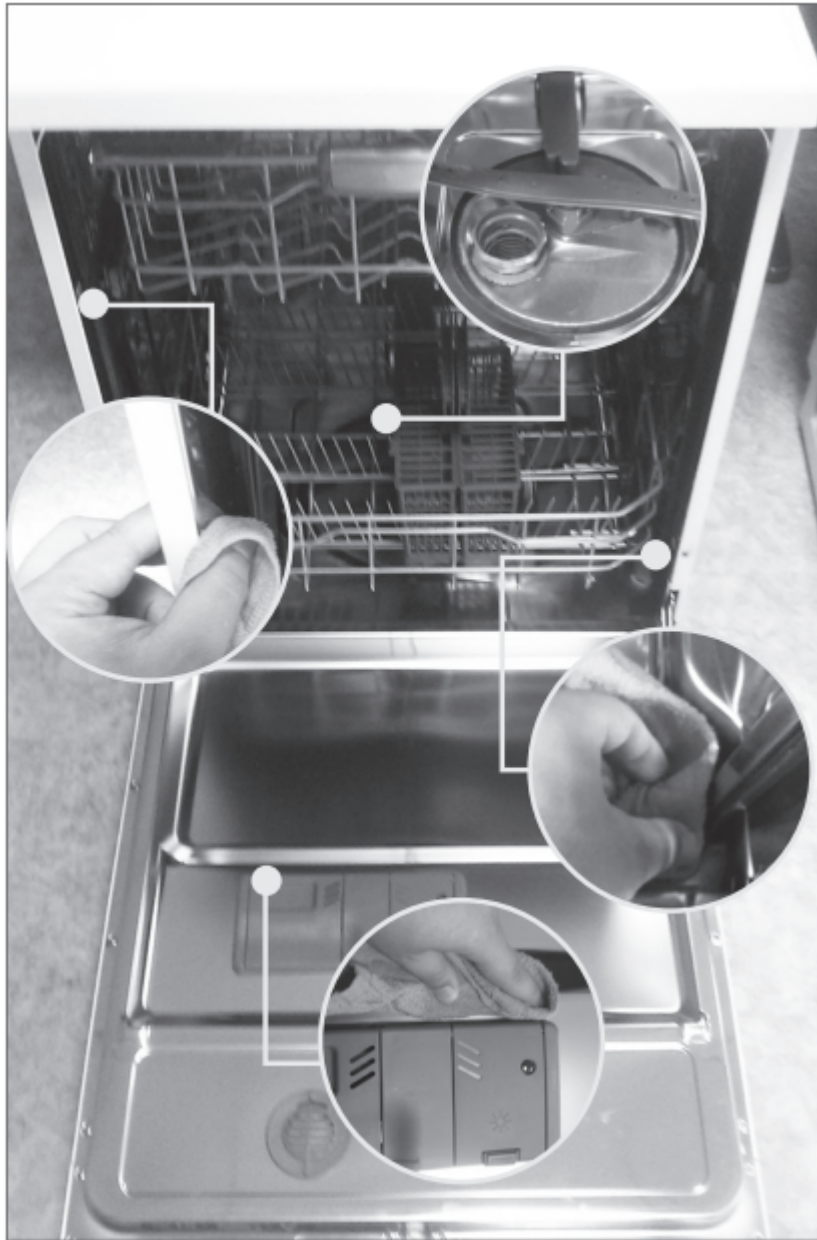
Not used for a long time

- If you have not used the dishwasher for a long time, refresh the inside by running Quick & Dry cycle without detergent.
- When the cycle is finished, clean the inside/ outside of the dishwasher according to the User Maintenance & Cleaning Instructions.

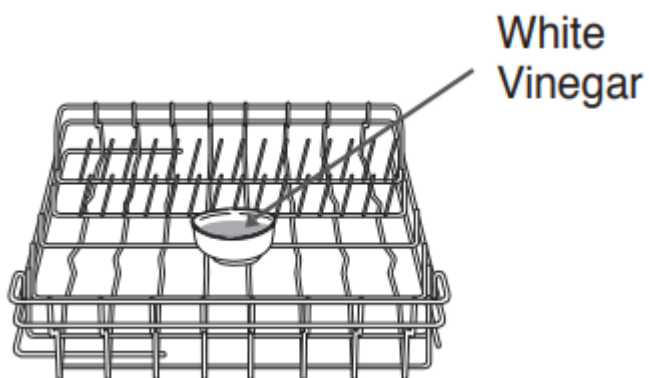
Cleaning the inside

Food residue may be stuck between the narrow gaps inside the dishwasher after completion of washing. Any unremoved food residue may cause odors inside of the dishwasher.

Wipe off all food residue by reference to the following picture.



Clean using white vinegar



If white powder or stains remains inside the dishwasher, run the Dual Spray or Power cycle after removing the dishes and then placing the small bowl containing white vinegar (200ml ~ 300ml) onto the upper rack.

WARNING

- When cleaning the inside of the dishwasher, do not use benzene or thinner. Otherwise, it may cause fire or explosion.
- Excessive use of vinegar may cause damage to the dishwasher. Do not pour Vinegar directly into the base.

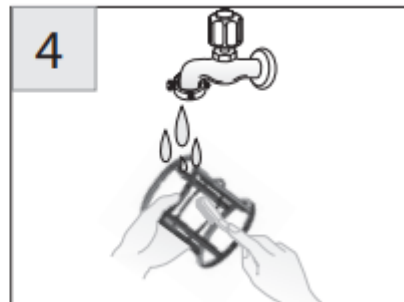
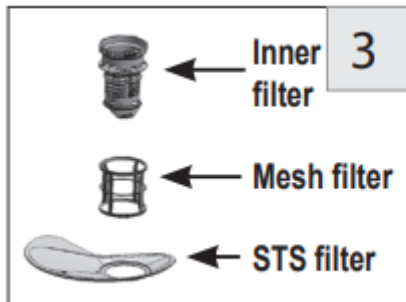
NOTE

- If food residue remains inside the dishwasher, Bad odors and bacteria may generate due to unremoved food residue. Therefore, maintenance should be performed on a regular basis.

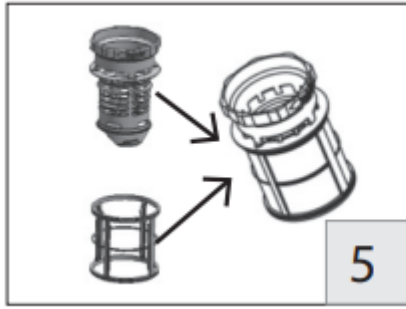
To maintain performance and prevent malfunctions, it is important to check the inside of the dishwasher, including filters and nozzles, at regular intervals.

Filters

Before cleaning the filters, remove the lower rack from the dishwasher first.



1. Turn the inner filter counterclockwise.
2. Remove the other filters in an upward motion.
3. There are three types of filters, **inner filter**, **mesh filter** and **STS filter**.
4. Clean the filters with a soft brush under running water.



5. Connect the inner filter and the mesh filter.

6. Insert the STS filter into the dishwasher.

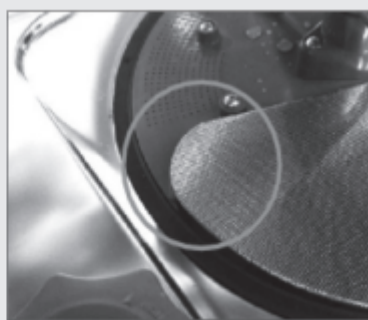
7. Fit the assembled filters back into the filter holder, then secure them by turning them clockwise.

! Check point

- When assembling STS filter, make sure that the ends are exactly assembled inwards.

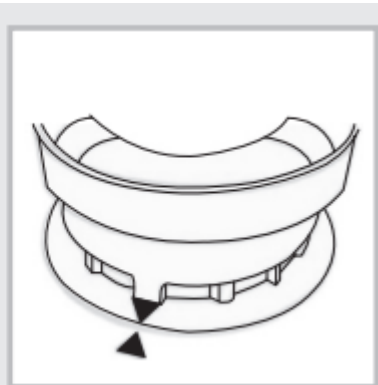


[Normal assembly]



[Wrong assembly]

- When assembling the inner filter, rotate it so that two arrows meet.

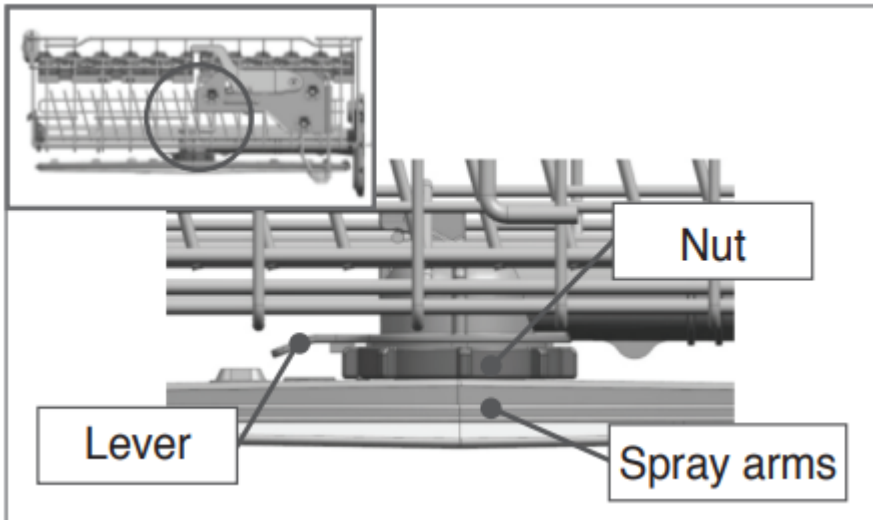


NOTE

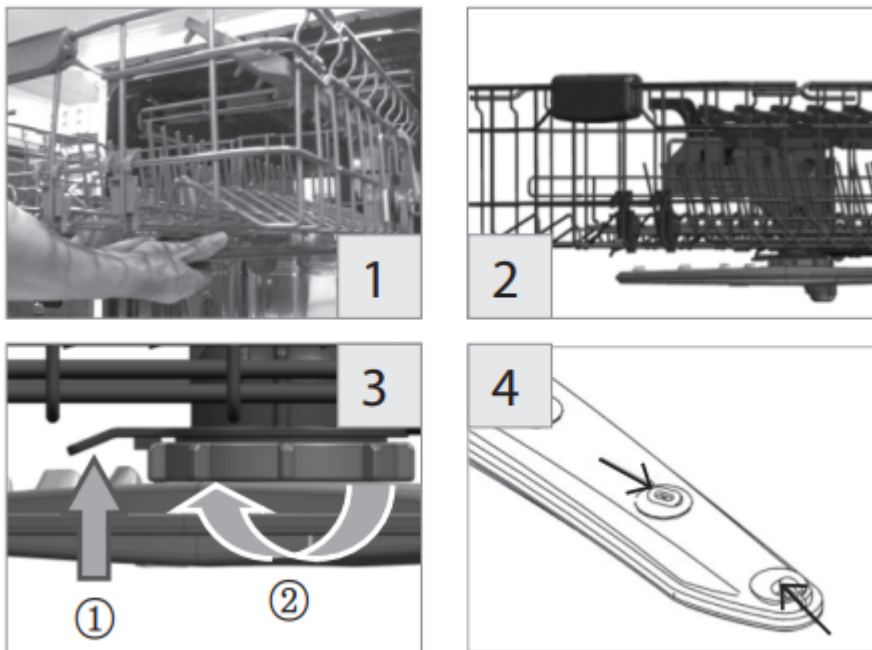
After using the dishwasher, particles of food are filtered by the filters. Any unremoved food residue may cause bad smell. In addition, drainage may have a problem due to food residue stuck in the filters.

Upper Spray Arm

Pull the upper rack forwards to remove the upper nozzle.



1. Pull the upper rack forwards for easy removal of the upper spray arms.
2. Rotate the ends of spray arms toward both sides.



3. As shown in the picture No.3, slightly lift the lever (①) and then remove the spray arms by rotating the nut on the spray arms (②) clockwise

4. Check whether each hole of the spray arms is blocked by food residue, and if required, clean them.



5. Assemble the cleaned spray arms to the upper rack by rotating the locking screw counter-clockwise.

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



! Check point

- How to clean the spray arms

If any food residue blocks the spray arm holes, remove it with a pin or any sharp tool. After removing the food residue, clean the spray arms holes in running water.

NOTE

- 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.

Lower Spray Arm Water Inlet Hose

Before cleaning the spray arms, remove the lower rack from the dishwasher.

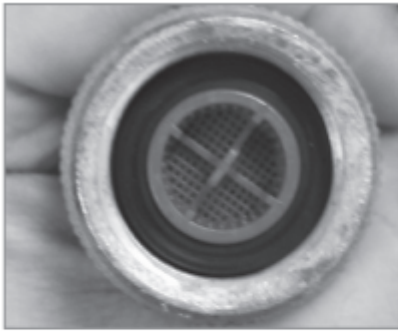


1. Check whether the holes of the lower spray arms are blocked.
2. Remove the lower spray arm by pulling it up with two hands.
3. Apply the same cleaning method as the upper spray arm to clean any blocked holes.
4. After cleaning, refit the lower spray arm back into its position by pushing it down firmly.

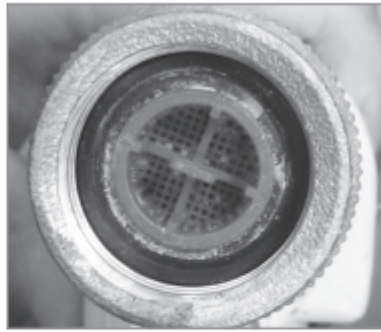
! Check point

- Excessive force for removing the lower nozzle may cause damage to the dishwasher or physical injury to hands by hitting the upper rack. So, slowly remove and refit it with two hands at all times.

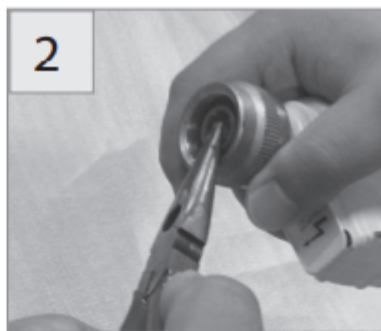
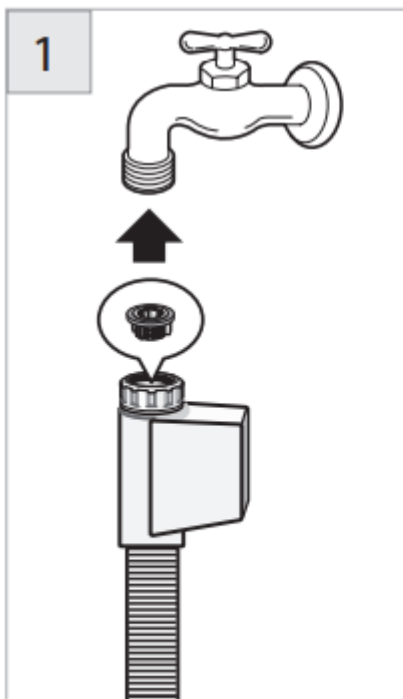
Water Inlet Hose



<Normal>



<Abnormal>



1. Turn off the water supply. Disconnect the water supply hose from the dishwasher.
2. Remove the filter with a long nose plier.
3. Clean the filter in the supply hose under running water.
4. Reconnect the water supply hose to the tap.




(Securely fasten them to prevent water leak)

NOTE If regional water contains a lot of foreign substances (small grains of sand), the water supply flow into the unit may be obstructed as the inlet hose filter may become blocked. To prevent this from occurring, clean it on a regular basis.

TROUBLE SHOOTING GUIDE

Display code (condition code)



What to do when you see Condition code.

Symptom	Possible Causes	Solution
<p>The display shows PF code.</p> 	<p>This indicates there was a power failure during operation.</p>	<p>Press the Power button.</p> <p>Restart the program which was previously run.</p>
<p>The display shows Cd code.</p> 	<p>This is an additional drying cycle after completion of the program.</p>	<p>You can remove the dishes from the dishwasher at any time during this cycle.</p>
<p>The display shows numbers between 1 ~ 19.</p>	<p>It indicates the reservation setting</p>	<p>The program will automatically start as time passes as set in the reservation setting hours.</p>
<p>The display shows F code.</p> 	<p>When the unit is displaying F, the sensor is measuring the water clarity After 5 minutes of sensing (except draining and filling), the unit's display will then show the processing time.</p>	

Display code (Condition & Error code)

What to do when you see condition & error code.

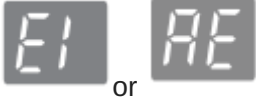





Symptom	Possible Causes	Solution
<p>The display shows IE code.</p>		<p>Check water outage or</p>

	<p>Water is not properly supplied.</p> <ul style="list-style-type: none"> • Bent water supply hose. • Less than 50kpa of water pressure • The filter of the water supply hose is clogged • Frozen water in the water supply part in winter. 	<p>the valve of water supply connecting part.</p> <p>Clean the water supply valve filters.</p> <p>Call for service if the same problem occurs again.</p>
<p>The display shows OE code.</p> 	<p>Drainage problem.</p> <ul style="list-style-type: none"> • Clogged drainage hose (Condition & Error code) • The filters inside the dishwasher are clogged. • Bent drainage hose • Wrong installation of drainage hose. (drainage connection point is not drilled out) • Wrong installation of the connecting part of drainage hose 	<p>Clean the drainage hose. Clean the filters.</p> <p>Check the installation of the drainage hose.</p> <p>Call for service if the same problem occurs again.</p>

Display code (Error code)

What to do when you see Error message.

Symptom	Possible Causes	Solution
The display shows E1 or AE code.	Is the dishwasher installed on even ground?	Install the dishwasher on an even surface and check for

<p>(Drain pump is automatically operated.)</p> <p></p>	<p>If the dishwasher is tilted or has been damaged during installation, a water leak may have occurred.</p>	<p>any damage to the inlet hose or cabinet.</p> <p>Call for service if the same problem occurs again.</p>
<p>The display shows FE code. (Drain pump is automatically operated.)</p> <p></p>	<p>Excessive water is supplied, which is more than the normal water level.</p> <p>if so, there may be a problem with the water supply valve.</p>	<p>Close the water tap and unplug the power plug.</p> <p>Call for service if the same problem occurs again.</p>
<p>The display shows HE code.</p> <p></p>	<p>The water heater circuit is damaged.</p>	<p>Close the water tap and unplug the power plug.</p> <p>Call for service</p>
<p>The display shows tE code.</p> <p></p>	<p>Thermistor malfunction or very high inlet water temperature</p>	<p>Close the water tap and unplug the power plug.</p> <p>Call for service</p>
<p>The display shows LE code.</p> <p></p>	<p>Wash motor malfunction.</p>	<p>Close the water tap and unplug the power plug.</p> <p>Call for service</p>
<p>The display shows nE code.</p> <p></p>	<p>Vario motor malfunction.</p>	<p>Close the water tap and unplug the power plug.</p> <p>Call for service</p>

Washing problems

A wash problem may occur due to many factors, such as dishes arrangement, detergent, rinse aid, water softener, etc.

Symptom	Possible Causes	Solution
<p>Improper wash (Food residue)</p>	<p>Wrong arrangement of dishes may prevent rotation of the spray arms. Improper water spray due to clogged holes of the spray arms may cause improper wash.</p> <p>Filters clogged with food debris may reduce wash performance.</p> <p>Unremoved food debris on dishes may block the filters during washing. Insufficient washing time or improper wash cycle may reduce wash performance.</p>	<p>Correctly arrange the dishes. Check and clean the spray arms. Clean the filters.</p> <p>Large particles of food residues should be removed from the dishes before starting wash.</p> <p>Use a proper wash program (course).</p>
<p>White spots or lines on the dishes after completion of wash</p>	<p>The water softener has no salt or insufficient salt.</p> <p>Water hardness level may be set too low.</p> <p>The rinse aid may be insufficient.</p>	<p>Check whether there is salt in the water softener.</p> <p>Increase the hardness level setting value.</p> <p>Refill the rinse aid or increase the dispensing level.</p>
<p>Water drops or stains are left on the dishes after completion of wash (Cup, utensils, etc)</p>	<p>Insufficient rinse aid may cause poor drying results</p>	<p>Adjust the rinse aid dispensing level.</p>
<p>Dishes are discolored after completion of wash. (Plastic items)</p>	<p>Keeping foods, such as carrot, tomato, ketchup, kimchi, etc, in the plastic container for a long time may cause discoloration, or insufficient quantity of</p>	<p>Increase the quantity of detergent. In addition, do not use any dishes that are not suitable for dishwasher use.</p>



	detergent may cause this problem.	
Rust stains are left on steel utensils.	<p>Failure to remove acid foods from the utensils for a long time may cause damage to the utensils.</p> <p>Any spilled salt in the dishwasher may cause rust.</p> <p>Washing silver utensils may cause damage to the utensils due to the water quality conditions</p>	<p>Do not leave the utensils stained with acid items unremoved for a long time. Run the 'Quick' course without dishes immediately after refilling salt.</p> <p>Use utensils suitable for dishwasher use.</p>

Washing problems

A wash problem may occur due to many factors, such as dishes arrangement, detergent, rinse aid, water softener, etc.

Symptom	Possible Causes	Solution
Detergent is left at the bottom of the dishwasher after completion of wash.	Too short washing time compared to the quantity of detergent may cause insufficient dissolving of detergent.	Add a suitable quantity of detergent according to the selected course.
Dry results are poor.	<p>Insufficient rinse aid may cause poor drying results.</p> <p>Using a tablet detergent (2in1, 3in1) may cause insufficiency in the quantity of rinse aid</p> <p>Failure to use dishwasher safe items may cause insufficient drying.</p>	<p>Check the rinse aid, and increase the quantity of rinse aid.</p> <p>add an additional rinse if the cycle permits.</p> <p>Use suitable utensils.</p> <p>For better drying results, slightly open the door after operation.</p>
There is excessive foam inside the dishwasher.	Failure to use the detergent	Use the detergent exclusive for dishwasher.

	<p>exclusive for dishwasher may cause excessive foam.</p> <p>An excessive amount of rinse may cause foam.</p>	Reduce the rinse aid dispensing level.
Water remains inside the dishwasher.	<p>If water remains inside the dishwasher, when starting the operation under normal condition, the course will start after removing the remaining water through drainage first.</p> <p>Water may remain if the power supply was lost before normal end of the course or was manually disconnected.</p>	Re-start the course.
Yellow water remains inside the dishwasher.	When initially using the dishwasher, yellow water may generate in the water softener tank. This is a normal condition, and it is harmless to humans.	It disappears after 1~3 cycles.

Noise Problems


A noise problem may occur due to poor arrangement of dishes or negligence in maintenance.



Symptom	Possible Causes	Solution
Knocking sound is heard during operation of the dishwasher.	When the spray arms hit the dishes, or the dishes move due to the water current, noise may generate.	Correctly arrange the dishes.
A grinding type noise during drainage or water filling.	<p>May be caused by large foreign substances clogged inside the drainage pump.</p> <p>If the water supply contains air, or water pressure is high, noise may occur.</p>	<p>Call for service if the same problem reoccurs.</p> <p>Reducing the pressure of the water supply may reduce noise.</p>

Moving the dishwasher from side to side generates noise.	If the dishwasher shakes from side to side due to its imbalance, noise may occur.	Adjust the left/right height with the adjusting legs or adjust the installation location.
Beep sounds are heard after operation of the dishwasher	This sound indicates the completion of operation. Thereafter, Cd (Cool dry) condition remains.	You can mute the beep sound in the display setting instructions.
'Click' sounds can be heard during operation of the dishwasher.	This is normal, it is caused by the micro switch during operation of the dishwasher. It is not an error.	Normal operation


General Problems

Malfunctions and poor washing results can be the result of user errors or not reading the user instructions. So, often they can be solved with a simple check.

Symptom	Possible Causes	Solution
<p>Bad smell inside the dishwasher</p> 	<ul style="list-style-type: none"> • A burning-like smell, which is unique to any electric appliance, may be generated at the initial use of the dishwasher, but this smell will decrease when you use the dishwasher 5 ~ 10 times. • Not using or cleaning the dishwasher for a long time may cause bad odors due to rotten food residues. 	<ul style="list-style-type: none"> • Clean the inside of the dishwasher. • Run the wash course without dishes after placing a bowl containing white vinegar onto the upper rack. And then, open the door and allow to dry. These processes may help reduce odors.

<p>Detergent is left in the detergent dispenser.</p> 	<ul style="list-style-type: none"> • Unbalanced upper rack • Detergent may not be dispensed because poor stacking of the • dishes prevent automatic opening of the detergent dispenser. 	<ul style="list-style-type: none"> • Adjust the left/right height of the upper rack. • Correctly arrange the dishes.
<p>Unclosed cover of the detergent dispenser.</p>	<ul style="list-style-type: none"> • The cover may not be closed due to small particles. (coffee grain or fruit seed) clogged in both sides of the detergent dispenser. 	<ul style="list-style-type: none"> • Clean the surroundings of the detergent dispenser.
<p>The dishwasher door is not closed well.</p>	 <ul style="list-style-type: none"> • Placing any heavy objects on the dishwasher or an unbalanced dishwasher may cause the doors not to close properly. 	<ul style="list-style-type: none"> • Do not place any heavy objects on the dishwasher. • Adjust the left/right height with the adjusting legs.
<p>Upper rack is not properly pushed in.</p>	<ul style="list-style-type: none"> • If the position of the height adjuster on the <p>Is there a home power failure?</p>	<ul style="list-style-type: none"> • Readjust the height adjuster for the upper rack.

	<p>left/right sides is incorrect, the upper rack may not be properly pushed in.</p>	<ul style="list-style-type: none"> • Check whether any dishes are obstructing the upper racks sliding function.
<p>It takes a long time for the wash cycle to complete.</p>	<ul style="list-style-type: none"> • If the temperature of supplied water is low, it takes longer for the dishwasher to heat the water in each part of the cycle. 	<ul style="list-style-type: none"> • if there is an option to connect to hot water, it is OK providing that the hot water temp does not exceed 65deg Celsius.

	<ul style="list-style-type: none"> • Is the dishwasher door closed? • Is it on timer delay start. 	<ul style="list-style-type: none"> • Close the dishwasher door. • Cancel the timer setting, or allow it to start as it was set to.
<p>Water leaks outside the dishwasher.</p> 	<p>The door may not be closed due to a tilted dishwasher. In this case a water leak may occur.</p> <p>Wrong installation of drainage hose may cause water leak.</p> <p>If the power is off, a water leak may be caused by a poor connection to the tap.</p>	<ul style="list-style-type: none"> • Re-install the dishwasher and adjust the front feet. • Check the connecting part of drainage hose. • Check the connection water supply hose.

NOTE

SMARTDIAGNOSIS function is available only for the products with a SMARTDIAGNOSIS mark. If using a mobile phone with poor signal, the smart diagnosis function might not operate.

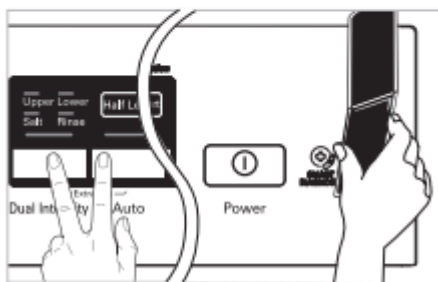
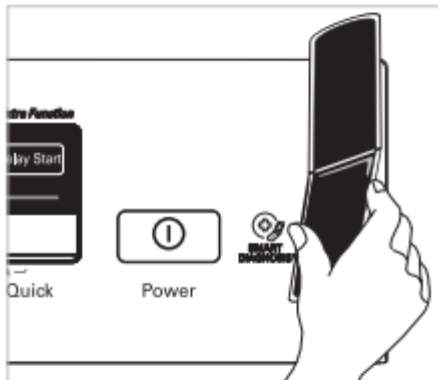
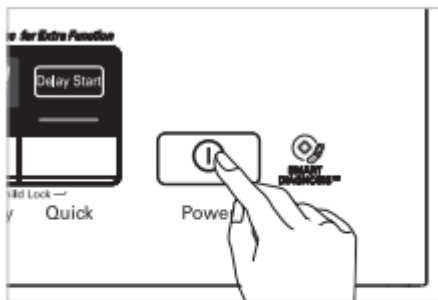
Using SMARTDIAGNOSISTM

- Only use this feature when instructed to do so by the call centre.

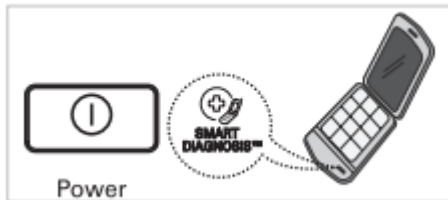
The transmission sounds similar to a fax machine, and so has no meaning except to the call centre.

- SMARTDIAGNOSIS™ can not be activated if the dishwasher does not power up. If this happens, then troubleshooting must be done without SMARTDIAGNOSIS™.

If you experience problems with your dishwasher, call the Customer information centre. Follow the call centre agent's instructions, and do the following steps when requested:



1. Press the Power button to turn on the dishwasher. Do not press any other buttons.
2. When instructed to do so by the call centre, place the mouthpiece of your phone very close to the Power button. (Max. 10mm)



3. Press and hold the Dual Intensity and Auto buttons for three seconds, while holding the phone mouthpiece to the icon or Power button.

4. Keep the phone in place until the tone transmission has finished.

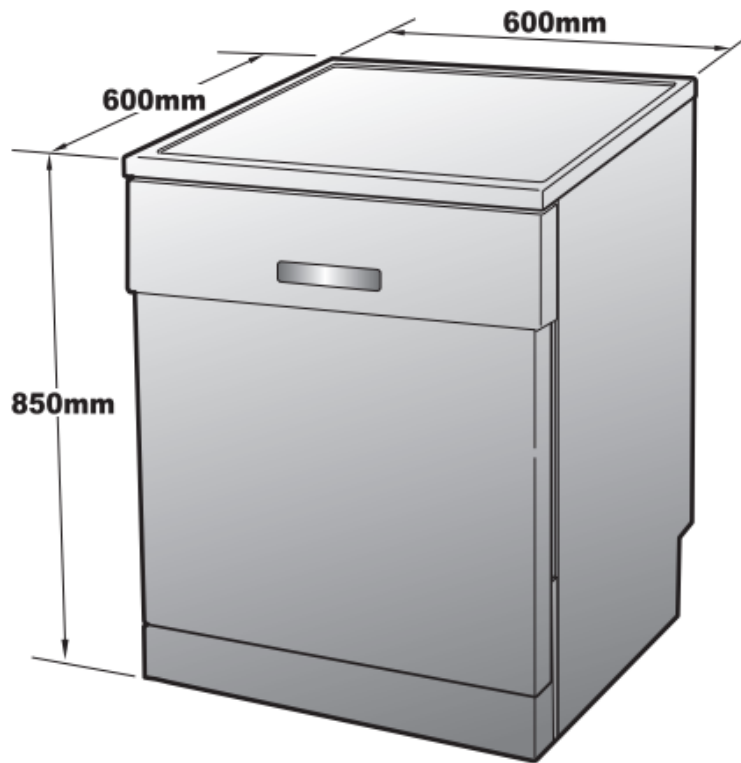
This takes about 6 seconds, and the display will count down the time.

- For best results, do not move the phone while the tones are being transmitted.
 - If the call centre agent is not able to get an accurate recording of the data, you may be asked to try again.
 - Pressing the Power button during the transmission will shut off the SMARTDIAGNOSIS™.
5. Once the countdown is over and the tones have stopped, the machine will display END and turn off automatically after a few seconds.

Resume your conversation with the call centre agent, who will then be able to assist you using the information transmitted for analysis during the call to Customer information centre.

- Smart Diagnosis is a troubleshooting feature designed to assist, not replace, the traditional method of troubleshooting through service calls. The effectiveness of this feature 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. Accordingly, LG does not guarantee that Smart Diagnosis would accurately troubleshoot any given issue.

SPECIFICATION



Capacity	14 Place settings
Weight	See rating label
Power Supply	See rating label
Power Consumption	See rating label
Water Feed Pressure	0.05 ~ 0.6 MPa

Minimum and maximum permissible water feed pressures are necessary for the correct operation of the appliance.

Warning

This content is compiled from multiple sources and is provided for reference purposes only. It may not be complete or fully applicable to all situations. If you are unable to resolve your issue, please contact the product manufacturer or an authorized service provider for official support.

