

SETTING UP YOUR DISHWASHER

BEFORE USING YOUR DISHWASHER



Tip-Over Hazard

- Do not use the dishwasher until it is correctly installed
- Do not push down on the dishwasher door when it is open.
- Do not place excessive weight on the dishwasher door when it is open. -



Electric Shock Hazard

Failure to follow these instructions can result in death, fire, or electric shock:

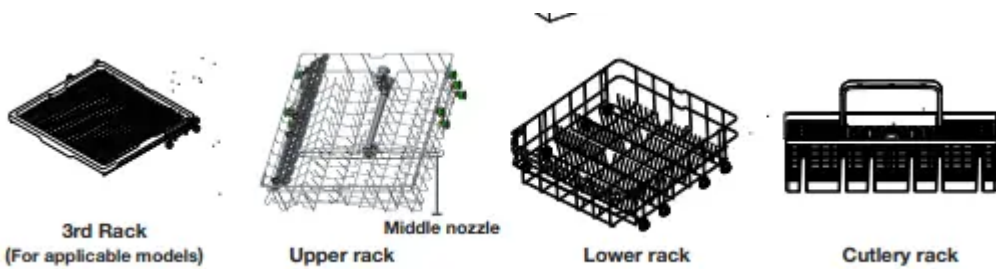
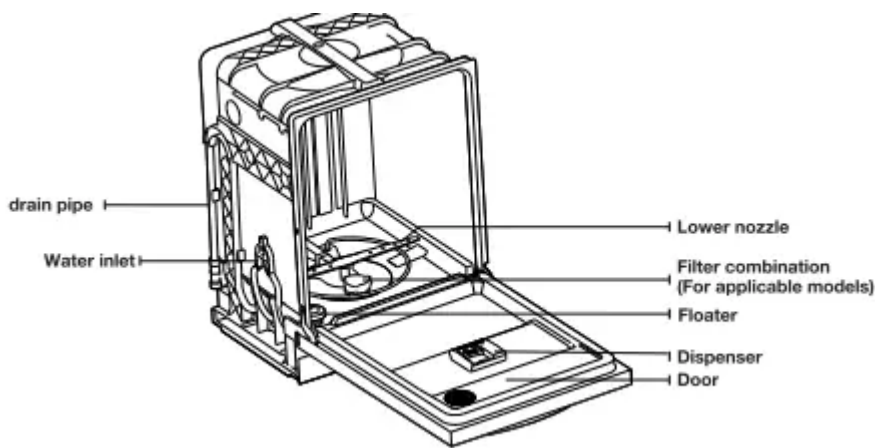
- Electrically ground the dishwasher
- Connect the ground wire to the green ground connector in the junction box. Do not use an extension cord.

UNPACKING YOUR DISHWASHER

- Once your new dishwasher has been delivered to you, carefully unpack it and check for any damage. If the dishwasher has been damaged, make note of it on the waybill and keep a copy. Do not install the dishwasher, and contact Samsung Customer Service at the number listed below. If there is no damage to the product, you can proceed with the installation.
- If you are going to install it yourself, make sure to read through the installation guide and follow the directions inside.
- After unpacking your dishwasher, keep the packaging out of the reach of children to ensure their safety

CHECKING PARTS

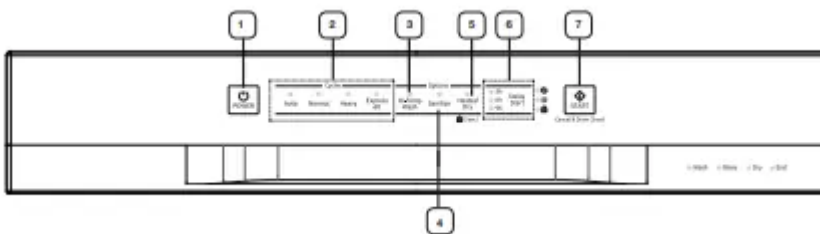
When your dishwasher has been unpacked, make sure you've received all the parts shown below. If your dishwasher was damaged during shipping, or if you do not have all the parts, contact Samsung Customer Service



Accessory parts - User/Installation manual, Installation Kit.

The floater is very important for the operation of your dishwasher. Please do not tamper with, damage, or remove the floater.

CONTROL PANEL



1 Power

When you press the Power button, the entire display turns on and off, and then the light of the most recently finished cycle lights up.

When the selected cycle is complete, the dishwasher powers off automatically.

2 Cycle Selector

Select the appropriate wash cycle depending on the soil level of your dishes. After you select a cycle, the Cycle On light for that cycle lights up

If a problem occurs during an operation specific LEDs blink, indicating the cause of the problem. The blinking is accompanied by a warning tone. For more information, refer to "Information Codes" on page 26.


3 Hi-Temp Wash


Raises the main wash temperature to improve cleaning for loads containing tough, baked-on food.

 Hi-Temp Wash is not available for the Express 60 cycle.

4 Sanitize

The temperature rises to 15 °F (70 °C) in the final rinse cycle for high temperature sanitization. If you select the Sanitize option, the “Sanitize” lamp blinks when the water temperature reaches the sanitary temperature (over 156 °F (69 °C)), and then remains illuminated until the Sanitize option ends. When you press the Power button, the “Sanitize” lamp turns off.

 The Normal Cycle with the Sanitize option selected is NSF certified.

 The Sanitize feature operates in accordance with NSF/ANSI Standard 184 for Residential Dishwashers. Certified residential dishwashers are not intended for licensed food establishments.

5 Heated Dry (Control Lock)

When the “Heated Dry” function is selected, the heater will work during the drying process.

Control Lock allows you to lock the buttons on the control panel so children cannot accidentally start the dishwasher by pressing the buttons on the panel.

To lock and unlock the buttons on the control panel, hold the Heated Dry button down for three (3) seconds when power is On.


6 Delay Start Delay a cycle for 3, 6 or 9 hour .

The hour displayed indicates the time at which the dishwasher will start.

7 Start


To start a cycle, press the Start button before closing the door. To cancel the cycle, press and hold the Start button for 3 seconds or press the Power button to power off the dishwasher.

Setting up your dishwasher

 You can select options (Hi-Temp Wash, Sanitize, Heated Dry) before starting a cycle. If you change the cycle after selecting an option, the original cycle is reset.

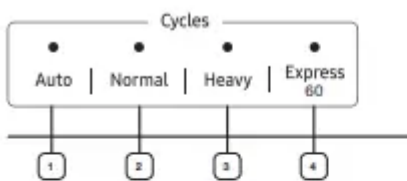
 To prevent the touchpad from losing response sensitivity, follow these instructions:

- Touch the center of each keypad using one finger. Do not push.
- Clean the touch control's surface regularly with a soft, damp cloth.
- Be careful not to touch more than one touch key pad at a time, except as directed.

 When you pause a cycle by opening the door, press the Start button before closing the door to continue the cycle. Push door firmly closed within 3 seconds of pressing Start button. If the door is not closed within 3 seconds, the cycle will not start.




CYCLE SELECTOR



1	Auto	This cycle detects the level of soil and automatically initiates the optimal cycle after a few minutes of operation.
2	Normal	Use this cycle for normally soiled dinner dishes.
3	Heavy	Use this cycle for heavily soiled dishes and dishes with heavy soil.
4	Express 60	Use this cycle for lightly soiled dishes. There's no drying time in Express 60, so you can choose the Heated Dry option if you want to improve drying performance.


MEETING INSTALLATION REQUIREMENTS

Electrical supply and grounding

 To prevent the risk of fire, electric shock, or personal injury, all wiring and grounding must be done in accordance with the National Electrical Code ANSI/FNPA, No. 70 Latest Revision and local codes and ordinances. It is the personal responsibility of the appliance owner to provide adequate electrical service for this appliance.

 Never use an extension cord. When preparing for installation, ensure that you provide:

- An individual branch circuit with a 120 V, 60 Hz, 15 AMP fuse or circuit breaker that serves only your dishwasher. Your dishwasher must be grounded. If your dishwasher malfunctions or breaks down, grounding will reduce the risk of electric shock by providing a path of least resistance for the electric current.

 Never connect the ground wire to plastic plumbing lines, gas lines, or hot water pipes

Flooring


For safety, your dishwasher must be installed on a solidly constructed floor. Never install your dishwasher on a platform or poorly supported structure.

Your dishwasher must be properly installed in accordance with the Installation Guide before you use it. If you did not receive an Installation Guide with your dishwasher, you can obtain one by visiting our website at www.samsung.com.

Using your dishwasher

BASIC GUIDELINES

1. Open the door and load your dishes (see page 14).
 - Place dishes into the upper and lower racks, unless you have selected Lower Rack.
 - Remove any food remains from the dishes before placing them in the rack(s).
 - After placing the dishes into the racks, rotate the nozzles by hand to check whether any of the dishes will interfere with them.
 - Make sure the dishes will not prevent the detergent dispenser from opening.
2. Add detergent to the dispenser (see page).
 - Make sure to use only automatic dishwasher detergent and rinse aid.
 - Refer to "Using detergent" on page for instructions explaining how to add detergent and rinse aid.
3. Press the Power button.
 - When you press the Power button, the entire display turns on and off, and then the indicator of the most recently finished cycle lights up.
 - If "Low Rinse" () is illuminated, you should refill the rinse aid dispenser to improve washing and drying performance.
4. Select an appropriate cleaning cycle depending on the soil level of the dishes. (See pages 9 and 2 .)
 - Press the appropriate cycle button.
 - When you press a cycle button, the cycle indicator lights up.
5. Press the Start button, and then close the door within 3 seconds.
 - The dishwasher will start draining after a few seconds, and then start the selected cycle.
 - Make sure to close the door firmly. If the door is not closed properly, the selected cycle will not start automatically.
6. When the wash cycle is completed.
 - The light illuminates and the dishwasher sounds a chime.
 - The dishwasher powers off automatically.


 - If you want to load more dishes or pause the dishwasher while it is already running, make sure to open the door slowly and carefully as there is a possibility of injury from the hot steam inside the dishwasher.

- If the door is opened while the dishwasher is running, a safety mechanism is activated and stops the cycle.
- To resume operation, press the Start button, and then close the door within 3 seconds.
- Adding dishes several minutes after the dishwasher starts operating may affect its performance.
- If you open the door while the dishwasher is running at high temperature, it will drain the hot water automatically to protect you from scalding

Delay start

When you select the Delay Start option, your dishwasher will:

- Start draining to remove remaining water at once (pre-drain). Your dishwasher will operate the selected cycle when the delay time expires.

 When using the dishwasher, try to arrange the dishes properly as described on page 14 to 16.

- You should remove food remains such as bones, fruit seeds, etc. and any other waste such as toothpicks, paper, etc. from the dishes as these may cause damage to the dishes, create noise, or cause the dishwasher to malfunction.
- Select the appropriate cycle depending on the level of soil and the type of dishes.
- Use only the proper amount of detergent and rinsing agent.

 Do not wash the following items in your dishwasher


- Acrylic or Aluminum items: Dishes with printed gold rim decoration may become discolored.
- Dishes treated with adhesive: Treated plastics, wood, ivory, copper, and tin may come loose.
- Plastics with a temperature tolerance less than 194 (90): °F °C Thin plastics wash and dry poorly, and may be damaged due to elevated wash temperatures.
- Tin: Tin items should be washed by hand and dried immediately as may rust. Wooden utensils: Wooden items may crack.

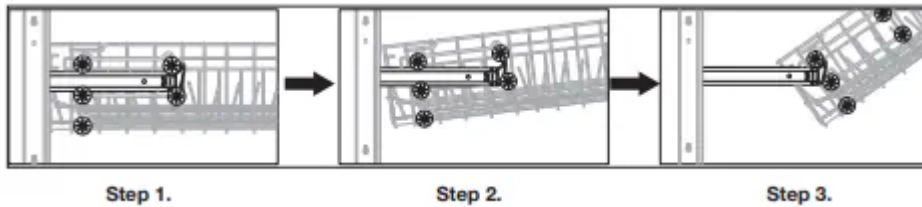
ADJUSTING THE HEIGHT OF THE UPPER RACK

You can adjust the height of the upper rack in your Samsung dishwasher so that the lower rack can accommodate larger sized dishes. With the upper rack set at the highest position, the lower rack can accommodate plates up to 12 in. (30 cm) in diameter and the upper rack can accommodate plates up to 8 in. (20 cm) in diameter.

REMOVING THE UPPER RACK

Pull the upper rack towards the front and then remove it by lifting it up slightly and pulling it towards the front. See the illustrations below.

 While the upper rack is removable, it must be installed for the dishwasher to operate properly. If you attempt to operate the dishwasher without the rack, noise will occur and the dishwasher will perform poorly



LOADING THE LOWER RACK

The lower rack has been especially designed for dinner dishes, soup bowls, plates, pots, lids, casserole dishes, and plates.

Load large items such as pans and pots into the dishwasher so their open sides face downwards. We recommend loading cups, stemware, and small plates into the upper rack. See the recommended loading patterns below.



10 place setting



12 place setting

LOADING THE UPPER RACK

The upper rack has been designed for small plates, mugs, glasses, and plastic items marked “dishwasher safe”. Load your plates into the dishwasher in two half rows, so that the front of each plate faces the back of the plate in front of it, and the open sides of the plates at the center of the dishwasher face each other. See the illustrations below.

Make sure the loaded dishes do not interfere with the rotation of the nozzle which is located at the bottom of the upper rack. (Check this by rotating the nozzle by hand.) When loading dishes, pull the upper rack out sufficiently so you can load it without striking the counter above.



10 place setting



12 place setting



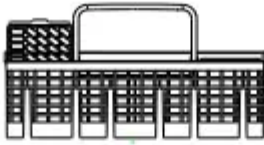
USING THE 3RD RACK

- The cutler rack is best for flatware and cooking or serving utensils. Use the cutlery rack to organize flatware or utensils.
- For best results, place heavily soiled items in the standard cutlery basket.

* **NOTE:** The cutlery rack can be removed if you need more space on the upper rack to clean larger items.

USING THE CUTLERY RACK

You can place each knife, spoon, or fork separately into the spoon stands in the basket's covers to prevent chipping and discoloration. You can use the cutlery rack with the cover open. Refer to the illustration below.

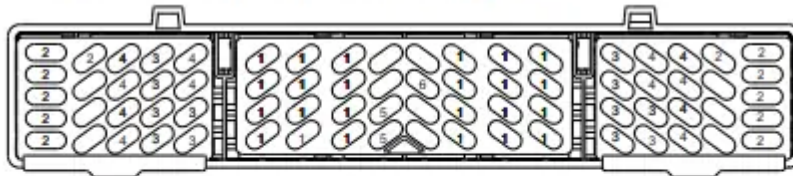


10 place setting



12 place setting

The spoon stands as seen from above with the suggested placement of cutlery items. Match the numbers in the diagram to the numbers in the list of cutlery items below



DO NOT let any item extend through the bottom.

- Spoons
- Knives
- Salad forks
- Forks
- Serving spoons
- Serving forks



USING DETERGENT

All dishwasher cycles require detergent in the detergent compartment. Add the correct amount of detergent for the selected cycle to ensure the best performance.

Use dishwasher detergent only. Regular detergent produces too much foam, which may decrease the dishwasher's performance or cause it to malfunction.

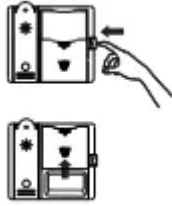
Do not swallow dishwasher detergent. Avoid breathing in the fumes. Dishwasher detergent contains irritants and caustic chemicals that can induce respiratory conditions. If you have swallowed dishwasher detergent or inhaled the fumes, seek medical attention immediately.

Keep dishwasher detergent out of the reach of children.

Filling the detergent dispenser

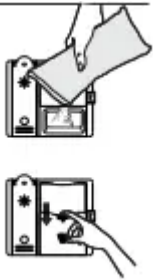
1. Open the detergent dispenser cap by pushing the detergent dispenser release catch.

 The flap is always open at the end of a dishwashing cycle.



2. Add the recommended amount of detergent to the main wash detergent compartment

3. Close the flap by sliding it down to the closed position and then pressing it down.




4. For better cleaning result, especially if you have very dirt items, pour a small amount (about 15 g) of detergent onto the door. The additional detergent will activate during the pre-wash phase.



The cover opens automatically to dispense the detergent during the wash.

CYCLE	AMOUNT OF DETERGENT	
	Main wash dispenser	Onto the door for pre-wash
Auto, Normal	20 g	10 g
Heavy, Express 60	30 g	15 g


 The numbers inside the dispenser refer to grams.

Cleaning and maintaining your dishwasher

Keeping your dishwasher clean improves its performance, reduces unnecessary repairs, and lengthens its life.


CLEANING THE EXTERIOR

It's best to clean spills on the outside of your dishwasher as they occur. Use a soft, damp cloth on the control panel to gently wipe away spills and dust. Do not use benzene, wax, thinner, chlorine bleach, or alcohol. These materials may discolor the inner walls and cause stains. Do not clean the dishwasher by sprinkling water over it and avoid letting water come into contact with any of the electrical parts.

 If your dishwasher has a stainless steel door panel, you can clean it with a stainless steel cleaner for Home Appliances or a similar product using a clean, soft cloth.

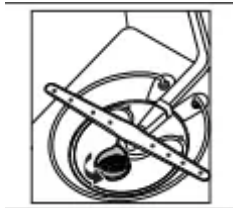
CLEANING THE INTERIOR

Clean the interior of your dishwasher periodically to remove any dirt or food particles. Wipe the inside of the dishwasher and the inner part of the door with a wet dishcloth. We recommend filling the detergent dispenser with dish detergent, and then running the dishwasher empty periodically using either the Normal or Express 60 cycle with the sanitize option. This will keep your dishwasher clean. If white spots and odor are still present in your dishwasher, run the Normal cycle with the dishwasher empty and without detergent until it flushes. Then, interrupt the cycle and put an 8 ounce cup of white vinegar into the lower basket. Close the dishwasher and let the cycle finish.

 Do not remove the tub front seal (the long rubber seal enclosing the opening of the dishwasher)

CLEANING THE FILTERS

1. Turn off the dishwasher



2. Rotate the filter insert counterclockwise to unfasten and then detach the filter insert.



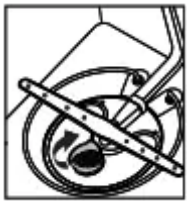
3. Remove the fine filter (flat, rectangular).



4. Remove any dirt or other remains from the filter, and then rinse under running water.



5. Reassemble the filter in the reverse order of disassembly, re-insert the filter insert, and then rotate clockwise as shown until closed.



 If the filter insert is not closed properly, its performance will be decreased.

CLEANING THE NOZZLES

If your dishwasher does not seem to be cleaning adequately or the nozzles seem clogged, you can clean each of the nozzles. When removing the nozzles, take care as they may break

Lower nozzle

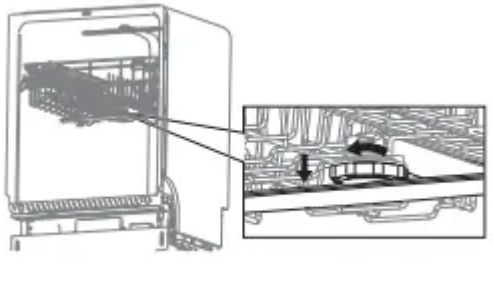
1. Check whether the nozzle holes are clogged by food particles.
2. If cleaning is needed, remove the nozzle by pulling it upwards.
3. Clean the nozzle, and then push it back into place.
4. Check whether the nozzle is engaged correctly by rotating it by hand.



Middle nozzle

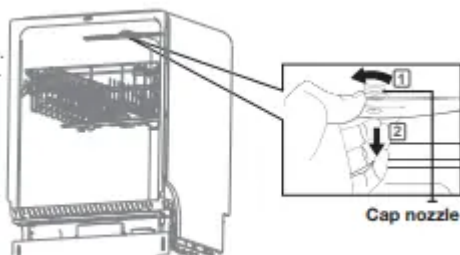
1. Pull the upper rack towards the front and remove it.

2. Check whether the nozzle holes are clogged by food particles.
3. If cleaning is needed, remove the nozzle.
4. To remove the nozzle, unfasten and remove the nut, and then remove the nozzle.
5. Clean the nozzle, re-insert it, and fasten the nut.
6. When fastening the nut, turn it firmly by hand.
7. Check whether the nozzle is engaged correctly by rotating it by hand.



Upper nozzle

1. Check whether the nozzle holes are clogged by food particles.
2. If cleaning is needed, remove the nozzle.
3. To remove the nozzle, pull out the upper rack first, unfasten the nozzle cap by turning it counterclockwise, and then remove the upper nozzle.
4. Clean the nozzle, re-insert it, and then fasten the nozzle cap to the nozzle by turning the cap clockwise.
5. Check whether the nozzle is engaged correctly by rotating it by hand.



STORING YOUR DISHWASHER

If you need to store your dishwasher for an extended period of time, first drain and disconnect it. If you leave water in the hoses and internal components, you can damage the dishwasher. After draining and disconnecting the dishwasher, be sure to turn off the water supply valve and circuit breaker.

Cycles

CYCLE CHART

Cycle	Pre-wash1	Pre-wash2	Main wash	Rinse1	Rinse2	Rinse3	Rinse4	Last Rinse [Sanitize]	Dry	Water [gal(l)]	CycleTime (min)
Auto	●	○	● 118-126 °F (48-52 °C)	●	●	○	○	● 138°F-144°F/158°F (58-62°C/70°C)	●	3-6 (11.8-22.7)	109-143
Normal	●	○	● 108-126 °F (42-52 °C)	●	●	○	○	● 138°F-144°F/158°F (58-62°C/70°C)	●	3-6 (11.8-22.7)	119-144
Heavy	●	●	● 131°F (55 °C)	●	●	●	●	● 149°F/158°F 65 °C/70 °C	●	7.3 (27.4)	162
Express	●	○	● 126 °F (52 °C)	●	●	○	○	● 136°F/158°F 58 °C/70 °C	●	4 (15.3)	60

(●: Basic, ○: Optional step)

- When you select the Auto or Normal cycle, you can eliminate optional steps depending on the soil level of the dishes.
- The water consumption and wash time varies depending on the steps or options you add, and on the pressure and temperature of the supplied water.
- When you select any options, the cycle time can be changed.
- When the Rinse Aid is empty, wash time and Last Rinse temperature can increase a little

Troubleshooting

Will not start.

- The door is not closed completely.
 - Check if the door is latched and closed completely.
- No cycle is selected. Select a proper cycle.
 - The power cable is not connected.
- Connect the power cable properly.
 - The Control Panel is locked. Unlock the child lock
- A circuit breaker is open.
 - Reset the circuit breaker.

An operation or cycle is taking too long.

- Cold water is being supplied.
 - Make sure the water supply line is connected to a hot water supply. (Additional time is required to heat cold water.)

Leaves glasses with a dull film.

- The water supplied is soft and too much detergent was used.
 - Underload the dishwasher and use a rinse aid to minimize this.
- Aluminum dishes were included in the wash load.
 - Remove the marks on the dishes using a low sensitivity cleaner

Leaves a yellow or brown film on the inside of the dishwasher.

- This is caused by coffee and tea soils.
 - Remove the soils using a spot cleaner.

Does not dry dishes well.

- There is no rinse aid in the dispenser.
 - Check the dispenser and add rinse aid. Use a liquid type rinse aid.
- The temperature of the water is low when the dishwasher is running.
 - Make sure that the water supply line is connected to a hot water supply. Make sure that the water supply line is connected to a hot water supply.
- Glasses and cups with concave bottoms hold water. This water may spill onto other items when
 - After the cycle finishes, empty the lower rack first and then the upper rack. This will prevent water from dripping from the upper rack onto the dishes in the lower rack.

Has a bad odor.

- Water was left over from an incomplete cycle.
 - With the dishwasher empty, add detergent to the dispenser, and then run the Normal cycle to clean the dishwasher.
- The Drain Hose is obstructed.
 - Contact a qualified service technician to remove any obstruction from the drain hose.
- The dishwasher is not used daily or soiled dishes are left in unit too long.
 - With the dishwasher empty and no detergent in the dispenser, place a glass with 8 ounces of vinegar upright into the lower rack, and then run a Normal cycle

Is too noisy.

- Sound is generated when the dispenser cover is open and the drain pump is operating in an early stage.
 - This is normal operation.
- The dishwasher is not level.
 - Ensure the dishwasher is level.
- Foreign material (a screw, a plastic piece) is in the pump chamber.
 - Contact a qualified service technician to remove foreign material from the pump chamber.
- There is a 'chopping' sound because a nozzle is bumping against the dishes.
 - Rearrange the dishes.

A nozzle does not rotate smoothly.

- Nozzle holes are clogged with food particles.
 - Clean the nozzle hole . See page 17
- The nozzle is blocked by a dish or pot and cannot rotate.
 - After placing the dishes into the racks, rotate the nozzles by hand to check whether any of the dishes interfere with them.

Water won't pump out of the dishwasher.

- The drain is clogged.
 - Contact a qualified service technician to remove any obstruction from the drain hose and check the drain pump operation.

































Has a bent upper rack after loading dishes.

- The dishes are not loaded properly.
 - Load your dishes as recommended. (See page 14.)

INFORMATION CODES

The Control Panel displays information codes to help you understand what is occurring with your dishwasher.

If your dishwasher has a problem, the CODE SYMBOL lights blink as shown below

Code Symbol	Meaning	Possible
    Auto Normal Heavy Express 60	No water	The water tap isn't opened. The pressure switch is broken. The wash pump isn't working. There is a problem with the Main PBA.
    Auto Normal Heavy Express 60	High-water level	The high water switch was activated 5 times for 5 seconds. The high water switch was on continuously for 120 seconds. There is a problem with the Main PBA.
    Auto Normal Heavy Express 60	Not reaching required temperature	The heater was on continuously for 60 minutes, but the water did not heat up to the required temperature. The heater is broken. The temperature detected by the thermistor is wrong. There is a problem with the Main PBA.
    Auto Normal Heavy Express 60	Water leakage	The leakage switch is broken. The leakage switch was activated for 2 seconds. There is a problem with the Main PBA.
    Auto Normal Heavy Express 60	Thermistor open-circuit failure	The thermistor suffered an open-circuit failure. There is a problem with the Main PBA.
    Auto Normal Heavy Express 60	Thermistor short-circuit failure	The thermistor suffered a short circuit failure. There is a problem with the Main PBA.
    Auto Normal Heavy Express 60	Abnormal operation of touch key-press	A touch key was operated abnormally or operated abnormally. Example: A key was pressed for more than 30 seconds. There is a problem with the Sub PBA.
    Auto Normal Heavy Express 60	Abnormal signal	A touch key was operated abnormally or operated abnormally. Example: A key was pressed for more than 30 seconds There is a problem with the Main PBA. There is a problem with the Sub PBA.

APPENDIX

HELPING THE ENVIRONMENT

- Your dishwasher is manufactured from recyclable materials. If you decide to dispose of it, please observe local waste disposal regulations. Cut off the power cable so that the appliance cannot be connected to a power source.
- Remove the door so that animals and small children cannot get trapped inside the appliance.
- Do not exceed the detergent quantities recommended in the detergent manufacturers' instructions.

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.