

Use & Care MANUAL



3 & 5 SERIES

VDWU524SS
VDWU524WSSS
FDWU524WS
FDWU524
VDWU324SS
FDWU324

To prevent accidents, which could cause serious injury or death, as well as machine damage read these instructions before installation and / or use.

INTRODUCTION

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Please read this user manual and particularly the safety instructions completely and carefully. They will save you time and effort and help to ensure optimum dishwasher performance.

Be sure to observe all listed warnings and cautions. Look particularly for the icons with exclamation marks inside. The information icon will also provide important references.

	WARNING: Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
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	CAUTION: Indicates a potentially hazardous situation which, if not avoided, may result in injury. It may also be used to alert against unsafe practices.
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	NOTICE: Indicates a potentially hazardous situation which, if not avoided, may result in damage to the dishwasher, the dishware, the equipment or the environment.
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1. IMPORTANT SAFETY INSTRUCTIONS

	WARNING: When using the dishwasher, follow basic precautions, including the following: Read all instructions before using the dishwasher! Save these operating instructions and pass them on to any future user.
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	<p>“This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.”</p> <p>“No changes shall be made to the equipment without the manufacturer’s permission as this may void the warranty”</p>
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- Use the dishwasher only for its intended purpose as described in this user manual. This appliance is intended for normal household use only.
- **The manufacturer disclaims responsibility for damage or injury caused by improper use of this appliance.**
- The information in this user manual must be followed to minimize the risk of fire or explosion and to prevent property damage, personal injury or loss of life.
- Do not operate your dishwasher unless all the enclosure panels are properly in place.
- Do not tamper with the controls.
- Do not abuse, sit on, stand in or on the door or dish rack of the dishwasher.
- The cup racks are designed to support cups, glasses and kitchen utensils. When the cup racks are in the dishwasher do not lean on or use the cup racks to support your body weight.
- To reduce the risk of injury, do not allow children to play in, on or near the dishwasher.

- Use only detergents or rinse aids recommended for use in a household dishwasher and keep them in a dry place out of the reach of children. Check that the detergent dispenser is empty after the completion of each wash program.
- Dishwasher detergents contain chemicals that can cause sickness and may be if they are inhaled or swallowed. Also, be careful when opening the door due to hot steam that is produced during operation. Consult a doctor immediately if detergent has been swallowed or inhaled.
- If the hot water has not been used in several weeks, we recommend running the hot water taps to remove any built up hydrogen gases.
- Do not store or use flammable liquids or vapors in the area of the dishwasher.
- When loading items to be washed, position sharp items so that they are not likely to damage the door seal and load sharp knives with the handles up to reduce the risk of cut-type injuries.
- Do not wash plastic items unless they are marked “dishwasher safe” or the equivalent. For plastic items not so marked, check the manufacturer’s recommendations.
- If a malfunction occurs, switch off the appliance and turn off the water supply to the dishwasher.
- Please do not attempt to carry the dishwasher by yourself in order to avoid potential injuries. Two or more people are needed to move a dishwasher.
- Before cleaning or carrying out maintenance, switch off the appliance, disconnect the power plug and turn off the water supply.
- Repairs and technical modifications must be carried out exclusively by an Authorized technician.
- If the dishwasher is not in use for an extended period of time (i.e. vacation home), we recommend removing all items from the dishwasher, leave the door cracked open to allow air to circulate and turn off both the power and water supply to the dishwasher.
- This appliance comes with a three prong NEMA 5-15P 15A power cord. It must be connected to a Grounded and Polarized wall receptacle that has been installed and tested by a licensed electrician and that it has been installed based on all Local, State and Federal Electrical codes.

	WARNING: Improper connection of the equipment-grounding conductor can result in a risk of electric shock. Check with a qualified electrician or service representative if you are in doubt whether the appliance is properly grounded. Do not modify the plug provided with the appliance, if it will not fit the outlet, have a proper outlet installed by a qualified electrician.
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- This appliance produces ozone within the washing compartment during normal operation. Long-term exposure to ozone or exposure at elevated levels may result in respiratory problems, especially for the elderly and children.
- Children should not operate this machine without adult supervision.
- Be careful to not leave the door fully open when not being loaded or unloaded to prevent someone from

tripping on the unit.



WARNING: If your dishwasher is equipped with internal illumination, lamp should only be replaced by the Authorized Service Agent in case of failures that may occur on the lamp.



WARNING: This product can expose you to chemicals including Nickel (Metallic) which is known to the State of California to cause cancer.

For more information go to www.P65Warnings.ca.gov

Note: Nickel is a component in all stainless steel and some other metal components.

SAVE THESE INSTRUCTIONS

- Service should be performed by a qualified installer. Work by unqualified persons could be dangerous and may void the warranty.
- Do not operate the appliance if damaged, malfunctioning, partially disassembled or if it has missing or broken parts.
- Before installation or service, disconnect the power supply to the work area by unplugging the unit, “tripping” the circuit breaker or removing the fuse.
- For safety reasons, dishwasher must be secured to adjacent cabinetry using the brackets provided. Failure to do this may cause damage to property or bodily injury.
- Do not use any extension cord or portable outlet device to connect the dishwasher to a power supply.

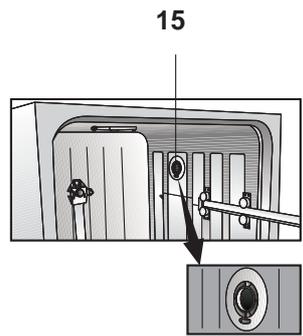
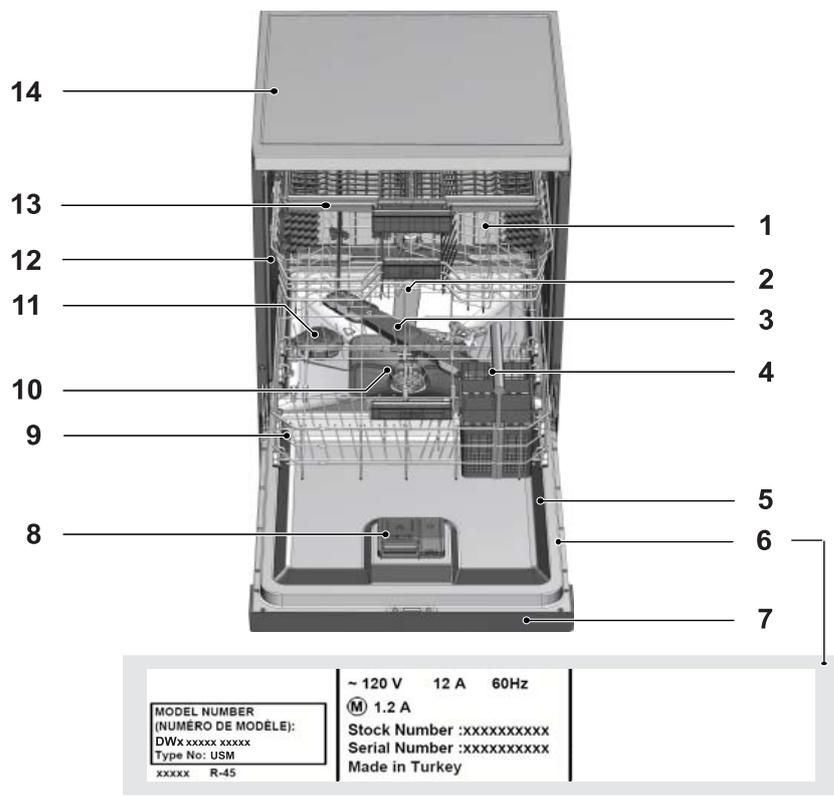
2. RECYCLING

- Remove the door to the washing compartment when removing an old dishwasher from service or discarding it. Ensure that the appliance presents no danger to children while being stored for disposal.
- Remove the door lock or door of the washing compartment before disposing dishwasher so that children or small animals can not trapped inside.
- Old appliances may contain materials that can be recycled. Please contact your local recycling authority about the possibility of recycling these materials.
- Please check the water supply line periodically. It is susceptible to breakage. It becomes less flexible as time goes by. Replace it immediately when it is torn, cut, swollen or there is water leakage.
- Please keep the dishwasher package out of the reach of children after unpacking it.



WARNING: Danger of suffocation! Ensure that any plastic wrappings, bags, small pieces etc. are disposed of safely and kept out of the reach of children.

3. GETTING TO KNOW YOUR DISHWASHER

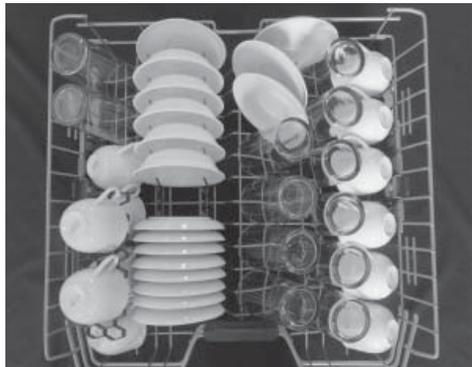


- 1. Upper basket
- 2. Upper impeller
- 3. Lower impeller
- 4. Removable cutlery basket
- 5. Door
- 6. Model and Serial Tag
- 7. Control panel
- 8. Detergent and rinse agent dispenser
- 9. Lower basket
- 10. Filters
- 11. Salt container (Select Models)
- 12. Upper basket rail
- 13. Upper cutlery basket (Select Models)
- 14. Tabletop (Select Models)
- 15. Turbo fan heat drying system (Select Models)

4. LOADING THE DISHWASHER

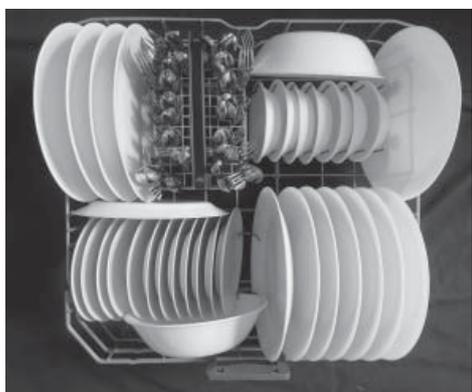
1. Pull the handle to open the door. If the door is opened during operation, the dishwasher will stop running. Once the door is closed the program will continue.
2. Remove coarse food leftovers from tableware.
3. Now you can load the dishwasher.

Upper rack (Standard Pattern)



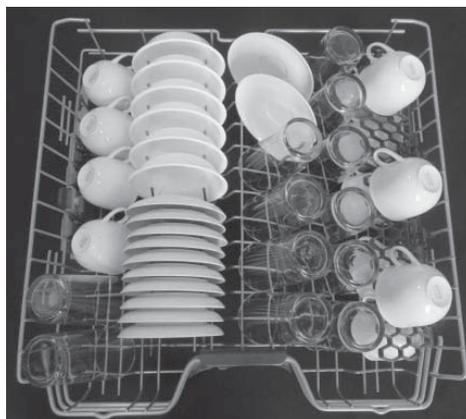
Top rack load pattern for 12 place settings according to the AHAM DW-1 Standards

Lower rack (Standard Pattern)



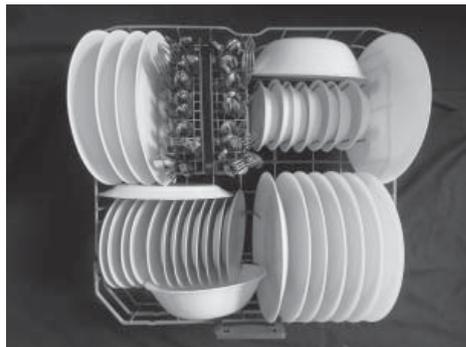
Bottom rack load pattern for 12 place settings according to the AHAM DW-1 Standards

Upper rack (International Pattern)



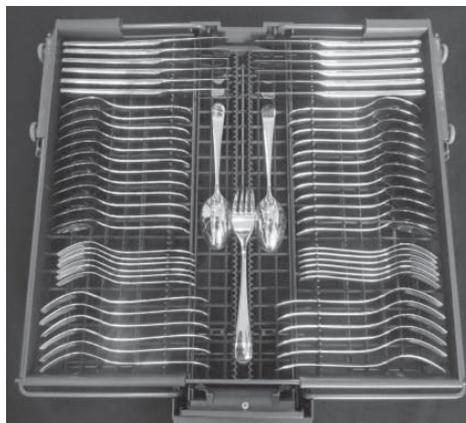
International Loading Pattern – Top rack (12 place settings)

Lower rack (International Pattern)



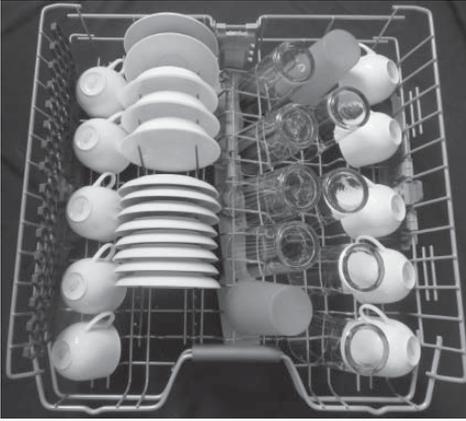
International Loading Pattern – Bottom rack (12 place settings)

Upper cutlery basket (Select Models)



International Loading Pattern – Upper cutlery basket (12 place settings)

Upper rack (Select Models)



Additional Loading Pattern – Top rack (10 place settings)

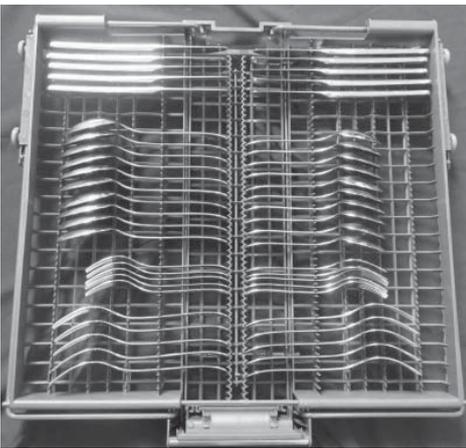
Lower rack (Select Models)



Additional Loading Pattern – Bottom rack (10 place settings)

Upper cutlery basket (Select Models)

Upper cutlery basket (MODEL DEPENDING)



International Loading Pattern – Upper cutlery basket (10 place settings)



CAUTION: Use extreme caution when removing knives and other sharp utensils from the dishwasher. These items may have shifted position during the wash program, and may be wet or slippery.



CAUTION: Hot steam can escape! Danger of serious burns or other injury.



NOTICE: Lower basket should be removed out of the dishwasher during the tests according to AHAM DW-1.

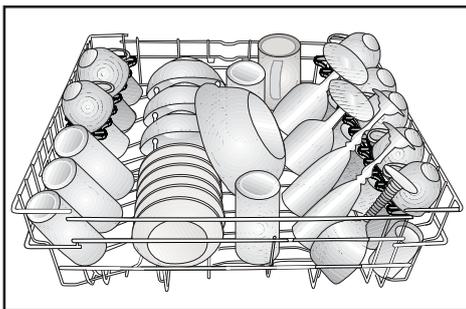
- Your dishwasher holds a maximum of 12 place settings.
- Place all containers such as cups, glasses and pots into the dishwasher with the opening facing downwards (so that no water can collect).
- Small and light items can go into the upper rack.
- Long and narrow items are placed in the middle of the racks.
- Place all large and very dirty items in the lower rack.
- Load dishes accordingly and be careful when loading glasses so they do not hit each other during the wash cycle. Also, make sure that both wash arms are not in contact with any dishware.
- Do not overload your dishwasher and pay attention to manufacturer instructions regarding dishes which are appropriate for use in for a dishwasher. Only with suitable dishes (mentioned in section 5) will you obtain optimal washing results with a sensible use of energy.



CAUTION: Large knives and other utensils with sharp tips and edges must be placed horizontally into the upper rack due to risk of injury. Other smaller knives and sharp utensils should be placed with sharp side down in the cutlery basket.

4.1 UPPER RACK

Load the upper rack with dessert plates, cups, glasses etc.

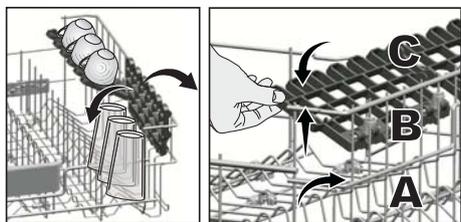


ADJUSTABLE SHELVES

(Select Models)

Depending on the size of the glasses and cups, the shelf height setting may be adjusted.

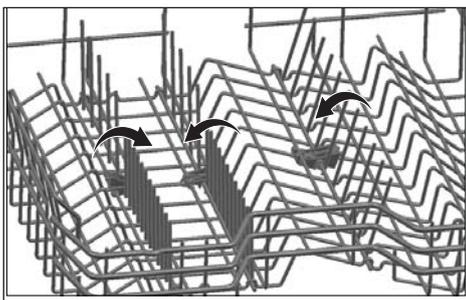
1. Fold the shelf upwards **A**.
2. Positioning at the desired height **B**.
3. Fold the shelf again downwards **C**.



COLLAPSIBLE UPPER BASKET WIRES

(Select Models)

You can use collapsible wires when you need a larger space for your dishes in the upper basket of your machine. To bring the collapsible wires into horizontal position, grab the wire from the middle position and push them in the direction of arrow in the figure. Place your larger dishes into the area created. To bring the wires back to vertical position, just lift them up.



Bringing the wires to the horizontal position by holding them from the tips may cause them to bend. Therefore, hold the wires from their stems while bringing them to the horizontal or vertical positions.

ADJUSTING THE HEIGHT OF THE UPPER BASKET

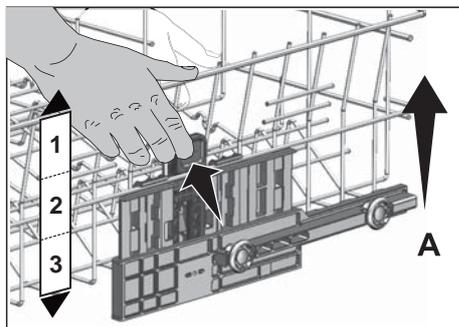
(Select Models)

The upper basket height adjustment mechanism has been designed for you to create large spaces in the lower or upper sections of your machine depending on your needs by adjusting the height in the upper or lower direction while your basket is empty or loaded.

Thanks to this mechanism, you can use your basket in three different positions lower, middle and upper positions (1, 2, 3).

1. To raise your basket, hold the upper basket wires with both hands while the basket is in the lowermost position and pull them up (**A**).
2. You will hear a "Click" from the right and left mechanisms, indicating that the basket has reached the next level. Release the basket.

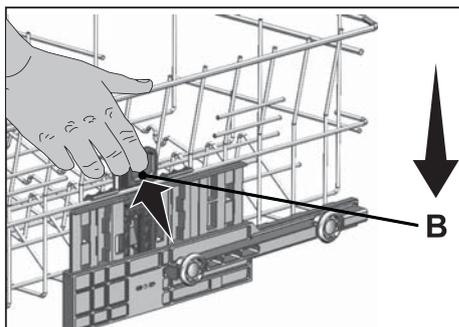
Repeat the process if the height is not sufficient.



To lower the basket, while it is in the uppermost position;

1. Hold the upper basket wires with both hands, slightly lift up the basket and simultaneously push and release the latches shown in the figure (**B**).
2. Lower the basket from its current position to the lower one.
3. Release the basket after it has reached one level down.

Repeat the process if the height is not sufficient.



The movement mechanism may not function properly if the upper basket is overloaded or if the weight distribution is not balanced. In heavier conditions, there is the risk of falling one level down.

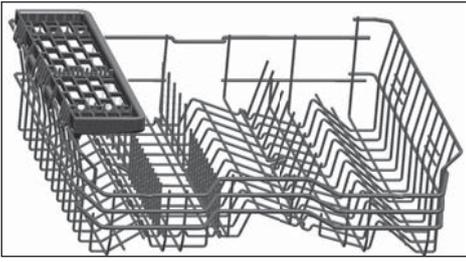


Make sure that the adjustment mechanism has the same positions on the right and left sides of the upper basket.

UPPER BASKET MULTIPURPOSE SERVICE RACK

(Select Models)

This accessory located at the upper basket of your machine allows you to easily wash pieces such as extra long ladles and bread knives.



You can lift up the upper basket multipurpose service rack to remove it if you do not want to use it.

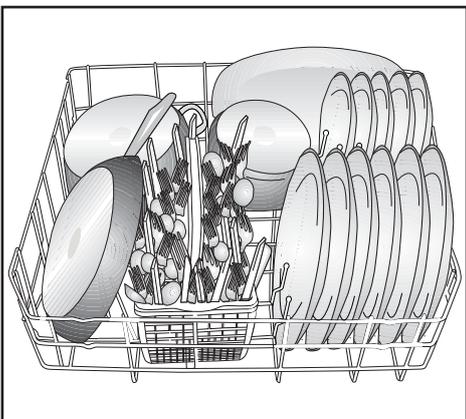


If you want to use the upper basket multipurpose service rack again, you can easily attach it to the side section of your upper basket.



4.2 LOWER RACK

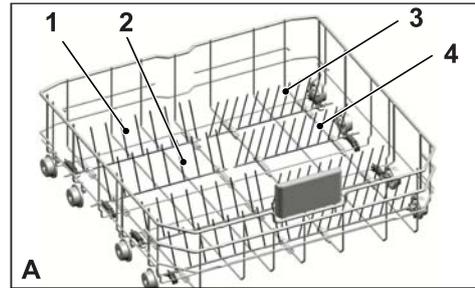
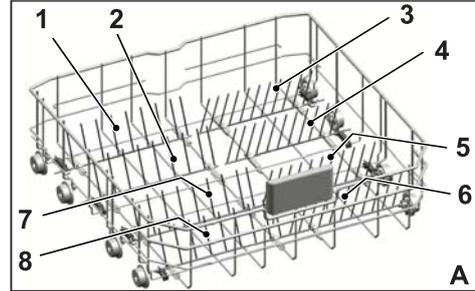
Use the lower rack for plates, bowls, pots etc.



COLLAPSIBLE LOWER BASKET TINES

(Select Models)

There are foldable tines (A) located in the lower basket of the machine that are designed for an easier placement of large pieces such as pans, bowls, etc. You can create larger spaces by folding each tines individually or all of them at once.



To bring the collapsible tines into horizontal position, grab the tines from mid position and push them in the directions of arrows (B). To bring the tines back to vertical position, just lift them up. Collapsible tines will click into the latch again (C).

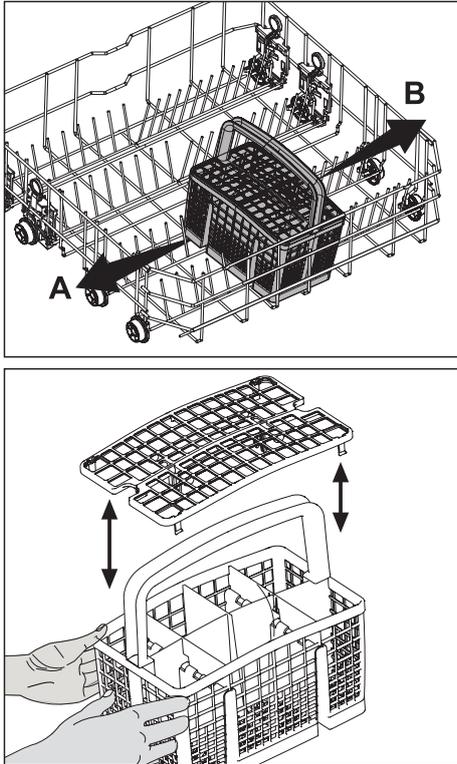


Bringing the tines to the horizontal position by holding them from the tips may cause them to bend. Therefore, it will be appropriate to bring the tines in the middle to horizontal or vertical position by holding them from their stems and pushing in the direction of arrow.

REMOVABLE CUTLERY BASKET

(Select Models)

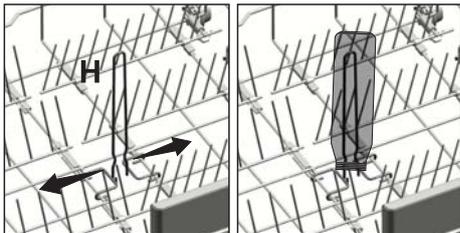
Removable cutlery basket is designed to wash your dishes such as knife, fork, spoon, etc. in a more efficient manner. Since the silverware basket can be moved (A, B), you can create more space while placing your dishes in the lower basket and free up space for your dishes of different sizes.



LOWER BASKET BOTTLE WIRE

(Select Models)

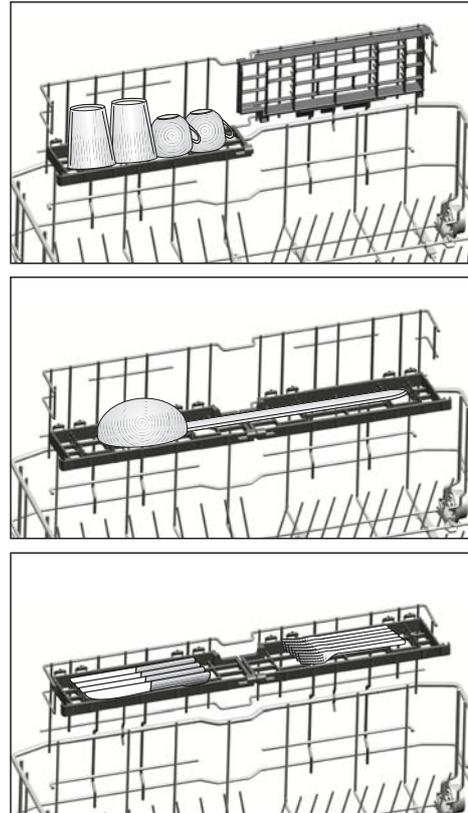
The bottle wire is designed for easier washing of long pieces with wide mouths. You may take out the bottle wire from the basket when not in use by pulling it out from both sides (H).



LOWER BASKET MULTIPURPOSE / HEIGHT ADJUSTABLE SERVICE RACK

(Select Models)

This accessory located in the lower basket of your machine allows you to easily wash pieces such as extra glasses, long ladles and bread knives.



You may use the racks as required by moving them to lower or upper position, or close them to create a wider space in your lower basket.



Make sure that the impeller does not touch the dishes you placed on the racks.

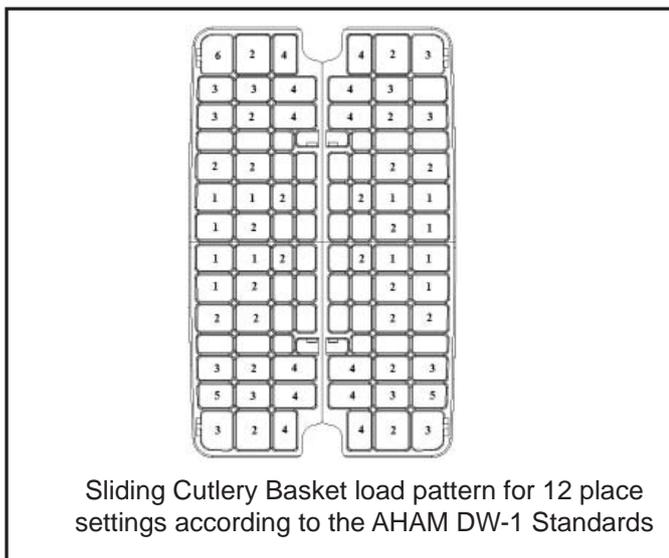
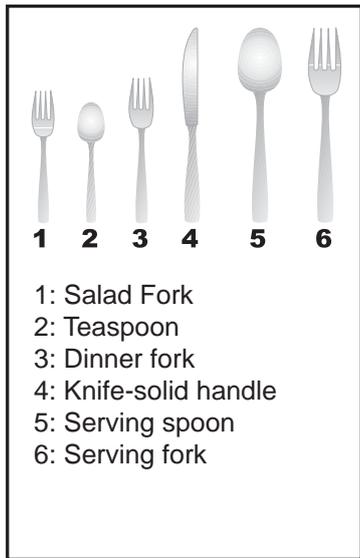
UPPER CUTLERY BASKET

(Select Models)

Upper cutlery basket is designed to wash your cutlery items such as forks, spoons and etc. by placing them between the bars on the basket.

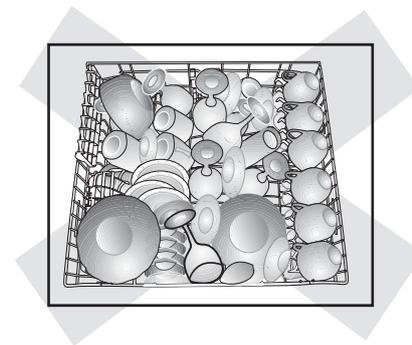
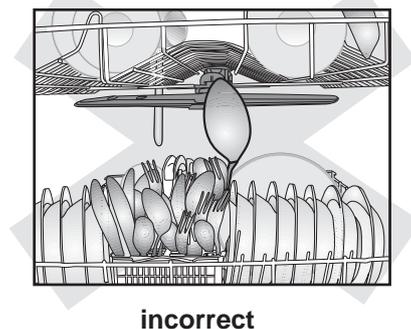
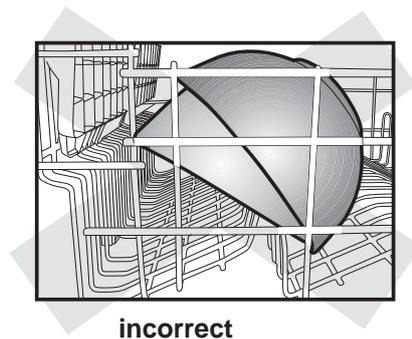
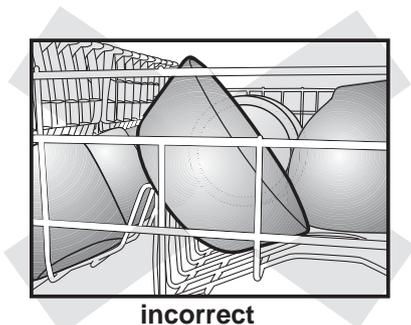


4.3 PROPER AND IMPROPER LOADING OF DISHWARE



- Place all containers such as cups, glasses and pots into the dishwasher with the opening facing downwards (so that no water can collect).
- The movement of the spray arms must not be hindered.
- Do not overload your dishwasher.
- Only with suitable dishes (mentioned in section 5) will you obtain optimal washing results with a sensible use of energy.

incorrect



5. WHAT SHOULD NOT BE WASHED IN YOUR DISHWASHER

- Rust-sensitive steel parts like iron and cast iron that can rust and stain other utensils and damage the interior stainless steel liner of the dishwasher and void the warranty. Do not wash copper, brass, pewter, bronze or tin.
- Cutlery with wooden or horn handles and cutlery with mother-of-pearl or porcelain handles will deteriorate over time if put in the dishwasher.
- Plastics may lose their shape or color with hot water, please follow the instructions of plastic manufacturers. Be sure that plastic items are marked "dishwasher safe".
- Glued dishes or cutlery are not suitable for machine washing since certain adhesives may get soft or dissolve with hot water.
- Aluminum may fade over time. Minerals in water and detergent may cause the aluminum to darken or spot.
- Sterling silver articles should not be washed in the dishwasher because they tend to discolor and become dull by dishwasher detergent.
- Silverware and stainless steel items should not be in contact with each other. Mixing these items can cause staining. Remove and hand dry these items immediately when the program ends.
- Decorated glasses, porcelain, fine china and china with gold rims are sensitive to machine washing. They may lose their patterns and colors over time.
- Crystal and very fine glassware may become opaque (etch) losing their shine over time. You may prefer to wash them by hand.
- Do not wash sponges or dish cloths in dishwasher.
- Do not wash art and craft articles in dishwasher.
- Disposable plastics and disposable aluminum cannot withstand high temperatures; do not wash them in the dishwasher.



CAUTION: If in doubt, wash by hand or follow the instructions from the manufacturer of utensils, dishes, glasses or pots and pans.
Do not wash items soiled with cigarette ash, candle wax, varnish, paints or chemicals since they can damage your dishwasher.



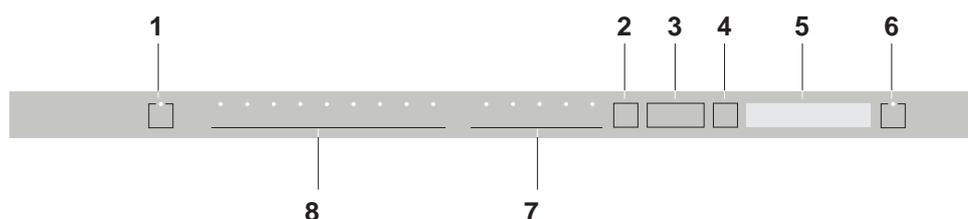
NOTICE: We recommend when buying new dishware, try to choose ones that are suitable for machine washing (marked as dishwasher safe).

CARING FOR YOUR DISHWARE

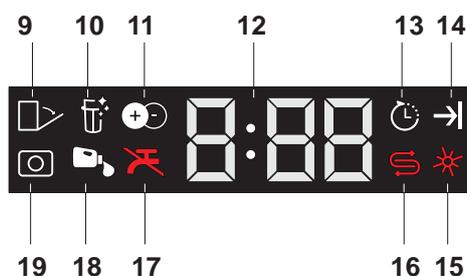
The combination of high temperatures and dishwasher detergent may cause damage to some items if they are washed in the dishwasher. Remember, if there is any doubt about any aspect concerning items to be washed in the dishwasher, follow the instructions from the manufacturer of the items, or wash the items by hand.

5 SERIES

OPERATING THE PRODUCT



1. On / Off Key
2. Menu Key
3. Time Delay Selection /
Menu Direction Selection Keys
4. Selection / Confirmation Key
5. Display
6. Start / Pause / Cancel Key
7. Function Selection Keys
 - F1 IntenseWash Function
 - F2 Express Function
 - F3 High Gloss Function
 - F4 Sanitize Function
8. Programme Selection Keys



9. Auto Door Open Indicator (depends on the model)
10. Filter Cleaning Function Indicator (depends on the model)
11. Function Indicator (depends on the model)
12. Delay Time / Program Time Indicator
13. Delayed Start Indicator
14. End of Program Indicator
15. Rinse Aid Indicator
16. Salt Indicator
17. Water Cut-off Indicator
18. Liquid Detergent Dosing Indicator (depends on the model)
19. Tablet Detergent Indicator (depends on the model)

On/Off Key

When you press the On/Off key, the indicator lights illuminate on the display for ON position. The lights turn off in OFF position.

PROGRAM SELECTION / PROGRAM CANCEL KEY

Select the desired program using the "program selection keys" and press the button.

To cancel the running program, open the door of the machine and press and hold the Program Start/Pause/Cancel key for 3 seconds.

After the 3 - 2 - 1 countdown, 0:01 is displayed, close the door of the product and wait for the draining process complete. Draining is completed in 2 minutes and the machine gives an audible warning when it is completed.

FUNCTION KEYS

If you press any of the Function keys during program selection or time delay selection, an affirmative key signal will be heard provided that the relevant function is supported by the selected program. Function will be deemed selected when the indicator of the selected function is lit.

To cancel the selected function, keep the function key pressed until the function indicator disappears.

PREPARING THE MACHINE

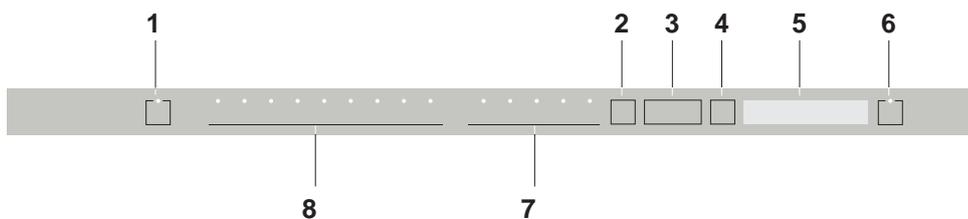
1. Open the door of the dishwasher.
2. Place the dishes in accordance with the instructions in the user manual.
3. Make sure that the upper and lower impellers rotate freely.
4. Put adequate amount of detergent into the detergent dispenser.

PROGRAM SELECTION

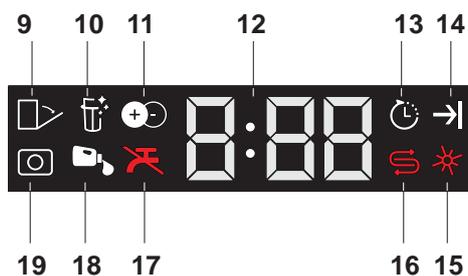
1. Press the On/Off button to turn on your machine.
2. Check the Salt and Rinse Aid indicators and add salt and/or rinse aid if needed.
3. Refer to the table of "Program data and average consumption values" to determine a washing program suitable for your dishes.
4. Selected program will start when you close the door of your machine.

3 SERIES

OPERATING THE PRODUCT



1. On / Off Key
2. Menu Key
3. Time Delay Selection /
Menu Direction Selection Keys
4. Selection / Confirmation Key
5. Display
6. Start / Pause / Cancel Key
7. Function Selection Keys
 - F1 Express Function
 - F2 High Gloss Function
 - F3 Sanitize Function
 - F4 Half Load Function
8. Programme Selection Keys



9. Auto Door Open Indicator (depends on the model)
10. Filter Cleaning Function Indicator (depends on the model)
11. Function Indicator (depends on the model)
12. Delay Time / Program Time Indicator
13. Delayed Start Indicator
14. End of Program Indicator
15. Rinse Aid Indicator
16. Salt Indicator
17. Water Cut-off Indicator
18. Liquid Detergent Dosing Indicator (depends on the model)
19. Tablet Detergent Indicator (depends on the model)

On/Off Key

When you press the On/Off key, the indicator lights illuminate on the display for ON position. The lights turn off in OFF position.

PROGRAM SELECTION / PROGRAM CANCEL KEY

Select the desired program using the "program selection keys" and press the button.

To cancel the running program, open the door of the machine and press and hold the Program Start/Pause/Cancel key for 3 seconds.

After the 3 - 2 - 1 countdown, 0:01 is displayed, close the door of the product and wait for the draining process complete. Draining is completed in 2 minutes and the machine gives an audible warning when it is completed.

FUNCTION KEYS

If you press any of the Function keys during program selection or time delay selection, an affirmative key signal will be heard provided that the relevant function is supported by the selected program. Function will be deemed selected when the indicator of the selected function is lit.

To cancel the selected function, keep the function key pressed until the function indicator disappears.

PREPARING THE MACHINE

1. Open the door of the dishwasher.
2. Place the dishes in accordance with the instructions in the user manual.
3. Make sure that the upper and lower impellers rotate freely.
4. Put adequate amount of detergent into the detergent dispenser.

PROGRAM SELECTION

1. Press the On/Off button to turn on your machine.
2. Check the Salt and Rinse Aid indicators and add salt and/or rinse aid if needed.
3. Refer to the table of "Program data and average consumption values" to determine a washing program suitable for your dishes.
4. Selected program will start when you close the door of your machine.

PROGRAM TABLE

Program number	1	2	3	4	5	6	7	8
Program name	Auto	Combi Clean	Pots & Pans+	Regular Wash *	GlassCare	Hour Wash	Quick Wash	Rinse & Hold
Wash Temperatures	(°C)	55	70	50-55	45	49	45	0
	(°F)	131	158	122-131	113	120	113	0
Rinse Temperatures	(°C)	66	75	61-67	65	71	55	0
	(°F)	151	167	142-157	149	160	131	0
Degree of dirtiness	Medium - High	Medium	High	Medium	Light	Light - Medium	Light	-
Detergent in dispenser section	15 ml	-	-	-	-	-	+	-
	15-25 ml	+	+	+	+	+	-	-
	+ 5 ml	-	+	+	+	-	-	-
Recommended detergent amount	Hard water	40	40	25-40	25	25-40	15-25	-
	tsp	8	8	5-8	5	5-8	3-5	-
	Medium water	40	40	25	25	15-25	15	-
	tsp	8	8	5	5	5	3	-
	Soft water	25-40	25-40	25-40	15-25	15	15-25	-
	tsp	5-8	5-8	5-8	3-5	3	3-5	-
Wash	+	+	+	+	+	-	-	+
Main wash	+	+	+	+	+	+	+	-
Dry	+	+	+	+	+	+	-	-
Sanitize	+	-	+	+	-	-	-	-
Duration (minutes)	100-152	182	122	100-152	101	58	35	15
Water (liters)	9.0-21.2	19.2	20.2	11.4-23.6	13.6	10.4	11.6	4.2
Water (gallons)	2.38-5.55	5.2	5.34	2.91-6.07	3.40	2.70	3.10	1.10

The consumption values shown in the table were determined under standard conditions. For this reason, deviations are possible under practical conditions. * The energy-usage label is based on this program.

PROGRAM TABLE

Program number	1	2	3	4	5	6	7	8
Program name	Auto	Combi Clean	Pots & Pans+	Regular Wash *	GlassCare	Hour Wash	Quick Wash	Rinse & Hold
Wash Temperatures	(°C)	55	70	50-55	45	49	45	0
	(°F)	131	158	122-131	113	120	113	0
Rinse Temperatures	(°C)	66	75	61-67	65	71	55	0
	(°F)	151	167	142-157	149	160	131	0
Degree of dirtiness	Medium - High	Medium	High	Medium	Light	Light - Medium	Light	-
Detergent in dispenser section	15 ml	-	-	-	-	-	+	-
	15-25 ml	+	+	+	+	+	-	-
	+ 5 ml	-	+	+	-	+	-	-
Recommended detergent amount	Hard water	40	40	25-40	25	25-40	15-25	-
	Medium water	8	8	5-8	5	5-8	3-5	-
	Soft water	40	40	25	15-25	25	15	-
Wash	ml	8	8	5	3-5	5	3	-
	tsp	25-40	25-40	15-25	15	15-25	15	-
		3-8	5-8	3-5	3	3-5	3	-
Main wash	+	+	+	+	+	-	-	+
Dry	+	+	+	+	+	+	+	-
Sanitize	+	-	+	+	-	-	-	-
Duration (minutes)	100-152	182	122	100-152	101	58	35	15
Water (liters)	9.0-21.2	19.2	20.2	9.0-21.2	13.6	10.4	11.6	4.2
Water (gallons)	2.38-5.55	5.2	5.34	2.91-6.07	3.40	2.70	3.10	1.10

The consumption values shown in the table were determined under standard conditions. For this reason, deviations are possible under practical conditions. * The energy-usage label is based on this program.

PROGRAM TABLE

Program number	1	2	3	4	5	6
Program name	Pots & Pans+	Regular Wash *	China/Crystal	Hour Wash	Quick Wash	Rinse & Hold
Wash Temperatures	70	50-55	48	47	45	0
(°C)						
(°F)	162	122-131	118	116,6	113	0
Rinse Temperatures	72	61-67	65	71	55	0
(°C)						
(°F)	158	142-157	149	160	131	0
Degree of dirtiness	High	Medium	Light	Light - Medium	Light	-
Detergent in dispenser section	-	-	-	-	+	-
15 ml	+	+	+	+	-	-
15-25 ml	+	+	+	+	-	-
+ 5 ml	+	+	-	+	-	-
Recommended detergent amount	40	25-40	25	25-40	15-25	-
Hard water	8	5-8	5	5-8	3-5	-
Medium water	40	25	15-25	25	15	-
Soft water	8	5	3-5	5	3	-
Wash	25-40	15-25	15	15-25	15	-
Main wash	5-8	3-5	3	3-5	3	-
Dry	+	+	+	-	-	+
Sanitize	+	+	+	+	+	-
Duration (minutes)	122	100-135	65	58	35	15
Water (liters)	20.2	8.8-21.2	12	10.4	11.6	4.2
Water (gallons)	5.34	2.32-5.60	3.17	2.70	3.10	1.10

The consumption values shown in the table were determined under standard conditions. For this reason, deviations are possible under practical conditions. * The energy-usage label is based on this program.

6.4 AUXILIARY FUNCTIONS

Washing programs of your dishwasher are designed to obtain the best cleaning effect, considering the type of the soiling, soiling degree and properties of the dishes to be washed.

Auxiliary functions allow you to save time, water and power.



Auxiliary functions may cause changes in the program duration.



Auxiliary functions are not suitable for all washing programs. Indicator of the auxiliary function that is not compatible with the program will not be active.

Half Load function

It is used to operate the machine without loading it completely.

1. Load your dishes in the machine as you like. You can use both upper and lower racks.
2. Turn the machine on with On/Off key.
3. Select the desired program and press the Half Load key. The Half Load indicator will light on the display in the Function Selected indicator.
4. Start the program by pressing Start / Pause / Cancel key.

Express Function

It shortens the time of the washing cycle selected and decreases water consumption by enabling washing under higher pressure.

High Gloss Function

It provides superior drying performance.

Sanitize Function

Sanitize function raises the water temperature in the final rinse to meet the requirements of NSF/ANSI STANDARD 184 for Residential Dishwashers. Certified residential dishwashers are not intended for licensed food establishments.

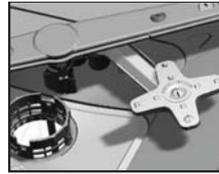


At the end of a successful sanitization "SAN" is displayed on the display. "SAN" is not displayed on the display if the cycle is interrupted or the water could not be heated to the required temperature.



Available programs are indicated on Program Table chart.

IntenseWash Function



IntenseWash impeller located under the lower impeller helps washing your heavily soiled dishes placed in the right side of the lower basket. It will give better results to place the most soiled dish to the right front side.



Do not try to remove the IntenseWash impeller!

Floor illumination

Illuminates to show program is still running.

(Select Models)

Your machine reflects a light to the floor during the washing process. This light turns off after the washing process is complete.



Floor illumination cannot be cancelled by the user.

Interior Lighting

(Select Models)

Some models have interior lighting to illuminate the interior when the door is opened.

Changing the interior lighting setting

1. After switching on your machine, press the Menu key for 1 second.
2. Press <- and +> to proceed to "L:" on the display. Select the position you want with the Selection key. Interior lighting is off in "L:0" position and on in "L:1" position.
3. Press the Menu key to exit the settings menu. Your setting will be saved automatically.

Changing Warning Sound Volume

1. After switching on your machine, press the Menu key for 1 second.
2. Press <- and +> to proceed to "S:" on the display.
3. Each pressing on the Selection key will change the warning sound volume as "S:0" off, "S:1" medium and "S:2" high.
4. Press the Menu key to exit the settings menu. Your setting will be saved automatically.



Factory setting of your machine is "S:2".

Functions Under the Settings Menu

(depends on the model)

Under the settings menu of your product, there are some additional functions that depend on the model.

To access these functions, press and hold the Menu key for 3 seconds. Use <- and +> to proceed to the desired function or setting.

Use the selection key to change the desired function or setting and press the Menu key to exit the Settings menu.

Detergent Tablet Function Off/On



Tablet detergent function

Allows to obtain a better drying performance from the multi-purpose detergents called as all in one detergents such as 2in1, 3in1, 4in1, 5in1 and etc., depending on the hardness level of the tap water.

i If you have used the Tablet features during the last washing programme you used, Tablet function will remain active in the next washing programme you will select. If you do not want to use these functions in the new program you have selected, press the Tablet Detergent key until the indicator of the relevant function turns off.

i Tablet Detergent function may cause change in the programme duration.

6.5 SCHEDULING THE WASHING TIME

Time Delay

If an economical electricity tariff is applied in your region, you can use the Time Delay function to wash your dishes during appropriate hours.

You can delay the start of the selected program until 24 hours.

1. Press the Time Delay function key after selecting the washing program and other auxiliary functions.
2. Once you press the Time Delay key, Display Information Line will show "0:30" and Time Delay indicator will start flashing.
3. Set the desired time by pressing the Time Delay key. Time will increase with increments of 30 minutes up to 6 hours and after that in 1 hour increments up to 24 hours every time you press the key.
4. Close the door of your machine after setting the Delayed Start. Once the delay time is over, the selected program will start automatically.

Changing the settings while Time Delay function is active

While the Time Delay function is activated, you cannot make changes in the washing program, auxiliary functions or the duration of delay time.



Program and auxiliary functions cannot be set/changed after the program has started.

To cancel the Time Delay function

Open the door of the product Press and hold the Program Selection / Program Cancel keys for 3 seconds. After the 3 - 2 - 1 countdown, 0:01 is displayed, close the door of the product and wait for the draining process complete. Draining is completed in 2 minutes and the machine gives an audible warning when it is completed.



You can select and start a new program following the cancellation of Time Delay function.



Time Delay function cannot be set after the program starts.

6.6 STARTING THE PROGRAM

Close the door of your machine to start it after selecting the program and auxiliary functions.



Select Models:
Your machine performs water softening depending on the hardness level of the supply water. Washing time can change while the program is running depending on the ambient temperature where your machine is installed, temperature of the supply water and amount of the dishes.



Pay attention not to open the door of the machine when it is running. There may be a rush of steam when you open the door of your machine; be careful.



The machine will be switched off if no button is pressed within 5 seconds after opening the door while the machine is running.



After the door has been opened, if any button is pressed within 5 seconds and the door is closed, the selected program resumes; otherwise, the machine will be switched off. Open the door after the machine has been switched off, press On/Off button and close the door within 5 seconds. The program will resume washing.



The machine will remain silent in pause mode for some time in order to remove the water from the machine and on the dishes completely and to have the water softener cleaned, and then it will resume running in drying mode.

6.7 CANCELLING THE PROGRAM

Open the door of the product press and hold the Program Selection / Program Cancel keys for 3 seconds. After the 3 - 2 - 1 countdown, 0:01 is displayed, close the door of the product and wait for the draining process complete. Draining is completed in 2 minutes and the machine gives an audible warning when it is completed.



There might be residues of detergent or rinse aid in the machine and/or on the pieces being washed depending on the step the program you have cancelled was in.

6.8 SALT INDICATOR (S)

(SELECT MODELS)

Please check the salt indicator on the display to see whether there is adequate amount of softening salt in the dishwasher or not. You need to refill the salt reservoir with salt whenever salt indicator appears on the display of your machine.



Adjusting the water hardness level is explained in Water Softening System section.

6.9 RINSE AID INDICATOR (☼)

Please check the rinse aid indicator on the display to see whether there is adequate amount of rinse aid in the dishwasher or not. You need to refill the rinse aid reservoir with rinse aid whenever rinse aid indicator appears on the display of your machine.

6.10 END OF PROGRAM

Adjusting the amount of rinse aid

1. After switching on your machine, press the Menu key for 1 second.
2. Using <- and +> keys, proceed to "P:" on the display.
3. Set to the appropriate level with the Selection key.
4. Press the Menu key to exit the settings menu. Your setting will be saved automatically.

No rinse aid dispensed in P:0 wash position.

- 1 dose of rinse aid is dispensed in P:1 position.
- 2 doses of rinse aid are dispensed in P:2 position.
- 3 doses of rinse aid are dispensed in P:3 position.
- 4 doses of rinse aid are dispensed in P:4 position.



When the program you have selected comes to an end, an audible warning signal will warn you to turn off your machine. This audible signal will warn you with certain intervals before it turns off.

End of Program indicator will light up when the washing program is over.

1. Open the door of the machine.
2. Press On/Off key to turn off your machine.
3. Close the door.



For energy saving, the machine is automatically turned off following the completion of the program or if the program is not started.



Leave your dishes in the machine for about 15 minutes to allow them cool down after they are washed. Your dishes will dry in a shorter time if you leave the door of your machine ajar during this period. This process will increase the drying effectiveness of your machine.

6.11 WATER CUT-OFF WARNING

If main water supply is cut or water inlet valve is turned off the machine cannot take water in and E:02 icon will flash on the program indicator. As long as the problem continues, washing program is paused and the water inlet is checked regularly by the machine; when the water is restored E:02 icon will disappear after a while and the washing program resumes.

6.12 OVERFLOWING WARNING

If the machine intakes too much water or there is leakage at any of the components then the machine will detect this and E:01 icon will flash on the Program indicator. As long as the overflowing continues safety measures will become active and try to discharge the water. If overflowing stops and safety is assured, E:01 icon will disappear. If E:01 does not disappear, there is a permanent fault. In this case the authorized service should be contacted.

7. DETERGENT

You can use powder, liquid/gel or tablet detergents in the machine.



Only use in the machine the detergents produced particularly for use with dishwashers. We recommend you not to use detergents that contain chlorine and phosphate as they are harmful for the environment.

7.1 ADDING DETERGENT



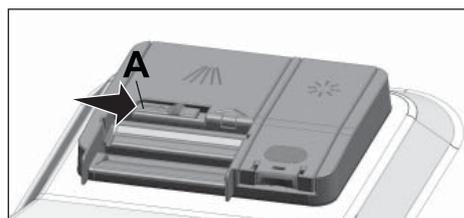
Pay attention to the warnings on the detergent packaging to get better washing and drying results. Contact the manufacturer of the detergent for further questions.



Do not put solvents into the detergent dispenser. There is the risk of explosion!

Put the detergent into the detergent dispenser just before operating the machine as illustrated below.

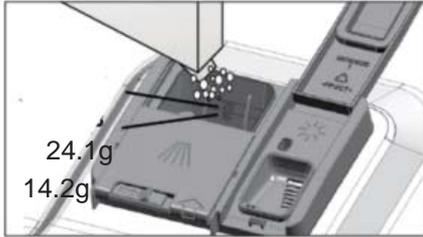
1. Push the latch to right to open the detergent dispenser lid (A).



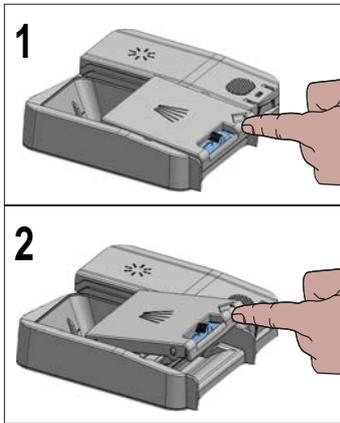
2. Put suggested amount of powder, liquid/gel or tablet detergent in the reservoir.



Inside the detergent dispenser there are level markings that help you use appropriate amount of powder detergent. When full, the detergent dispenser will contain 1.5 Ounces (42.5g) of detergent. Fill detergent up to .5 Ounces (14.2g) or .85 ounces (24.1g) level marks in the detergent dispenser according to fullness of the machine and/or soiling degree of the dishes. One tablet is enough if you are using detergent tablets.



3. Push the lid of the detergent dispenser to close it. A "click" will be heard when the lid is closed.



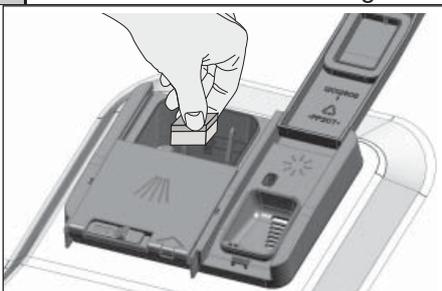
Use powder or liquid/gel detergent in short programs without prewash since the solubility of the tablet detergent changes depending on the temperature and time.

7.2 TABLET DETERGENTS

In addition to the conventional tablet detergents, there are also commercially available detergent tablets that show water softening salt and/or rinse aid effect. Some types of these detergents contain special-purpose components such as glass and stainless steel protectors. These tablets show their effects up to a certain water hardness level (59 gpg). Water softening salt and rinse aid must also be used together with the detergent if the water hardness level is above the mentioned level.



The best washing performance in dishwashers is obtained by using detergent, rinse aid and water softening salt individually.



Observe the instructions of the detergent manufacturer on the package when using tablet detergents.



Contact the detergent manufacturer if your dishes are wet and/or if you notice limescale spots particularly on your glasses after the washing program is over when using a tablet detergent.

When you switch to powder detergent from tablet detergent:

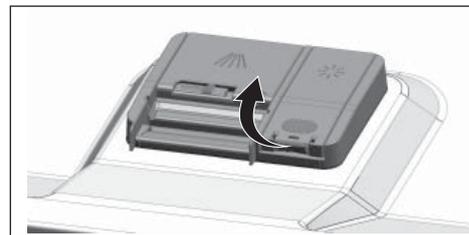
1. Make sure that salt (Select Models) and rinse aid reservoirs are full.
2. Set the water hardness to the highest level and perform an empty run.
3. After the empty washing cycle, review the user manual and readjust the water hardness level so as to suit the water supply.
4. Make the appropriate rinse aid settings.

7.3 RINSE AID

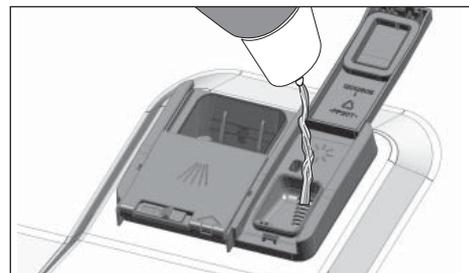


The rinse aid used in dishwashers is a special combination that aims to increase drying efficiency and prevent water or lime stains on the washed items. For this reason, care must be paid to have rinse aid in the rinse aid reservoir and to use rinse aids produced specially for dishwashers only.

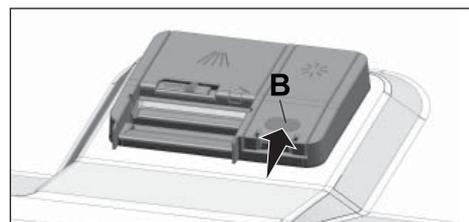
1. Open the lid of the rinse aid reservoir with the help of the latch.



2. Fill the reservoir until "MAX" level.



3. Slightly press the point (B) of the reservoir lid to close it.



4. If there are stains on dishware items after washing, level must be increased and if there is a blue trace after wiping them by hand, it must be decreased. This is set to position 3 as factory default.



The rinse aid adjustment is described under "Adjusting the amount of rinse aid" in the section for operating the machine.



Wipe clean any spilled rinse aid outside the reservoir. Rinse aid that spilled accidentally will cause foaming and it will eventually decrease washing performance.

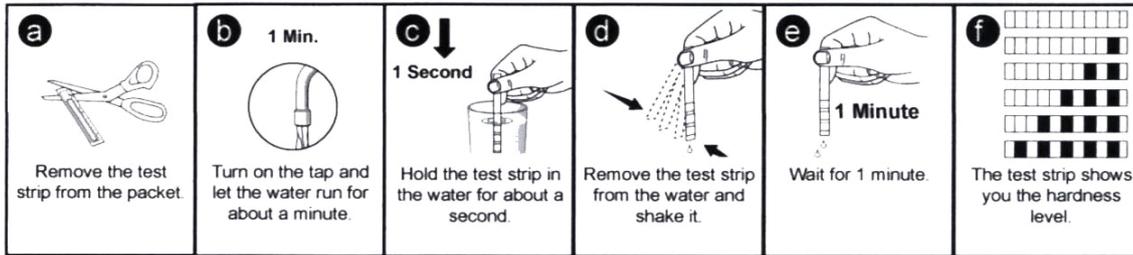
8. ADJUSTING THE WATER SOFTENING SYSTEM

(Select Models)

Cleaning, rinsing and drying performance of your dishwasher will increase when water softening system is adjusted properly.

Adjust the new water hardness level according to the Water hardness level instruction in this booklet.

Use the test strip supplied with the product according to the steps given below to determine hardness level of your supply water.



After determining hardness level of the supply water:

1. Switch on your machine, press and hold the Menu key
2. Press the settings menu key for 3 seconds to enter the Settings Menu.
3. Using <- and +> keys, proceed until the water hardness setting indicator becomes on ("r" position will be displayed).
4. Using the Selection key, adjust water hardness level according to the hardness of the supply water. For correct setting please see "Water hardness level setting table".
5. Press the Menu key to exit the settings menu. Your setting will be saved automatically.

Water hardness level adjustment table

Hardness Level	Grains Per Gallon (gpg)	French Water Hardness °dF	Water Hardness Level Indicator
Level 0 	0-14	0-8	Press the Selection key to switch the water hardness level to position 1. (r1)
Level 1 	15-22	9-13	
Level 2 	23-37	14-22	Press the Selection key to switch the water hardness level to position 2. (r2)
Level 3 	38-46	23-27	Press the Selection key to switch the water hardness level to position 3. (r3)
Level 4 	47-58	28-34	Press the Selection key to switch the water hardness level to position 4. (r4)
Level 5 	59-154	35-90	Press the Selection key to switch the water hardness level to position 5. (r5)

If the hardness level of the supply water is above 154 gpg (grains per gallon) or if you are using well water, then it is recommended to use water purification devices and special filters.

If the hardness level of the supply water is below 22 gpg, there is no need to use salt in your dishwasher. If this is the case, "No Salt Warning Indicator" (if any) illuminates continuously on the panel of your machine.

If the water hardness level adjustment is set to level 1, the "No salt warning indicator" will illuminate continuously although it is not necessary to use salt. If you use salt under this condition, salt will not be consumed and the Salt indicator will not illuminate.



If you move your dishwasher to another house, it is necessary to readjust water hardness level of your machine by considering the information given above according to the hardness level of the supply water in your new location. Your machine will display the most recently adjusted water hardness level.

9. FILLING THE DISHWASHER SALT DISPENSER (Select Models)

Water softening system needs to be regenerated in order for the unit to operate with the same performance continuously. Dishwasher salt is used for this purpose.



Use only special softening salts produced particularly for the dishwashers in your machine.



It is recommended to use granule or powder softening salts in the water softening system. Do not use salts that do not completely dissolve in water such as table salt or rock salt. Otherwise the performance of the system may deteriorate in time.

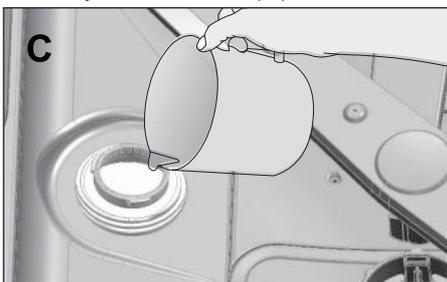


Salt reservoir will be filled with water when you start the product. For this reason, add salt before operating the machine.

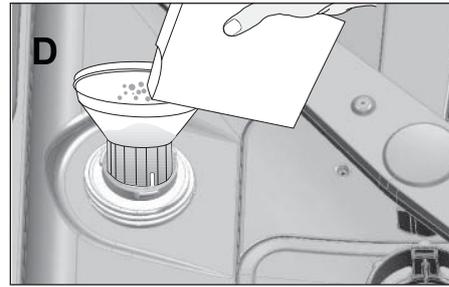
1. Take the lower basket out to add softening salt.
2. Turn the salt reservoir lid counter-clockwise to open it (A, B).



3. Add 4 cups of water to salt reservoir of your machine only in initial use (C).



4. Fill the salt reservoir with salt by using the salt funnel (D). To speed up dissolution rate of salt in water, stir it with a spoon.



You can put about 4.4 Pounds of softening salt into the salt reservoir.

5. Replace the lid and tighten it when the reservoir is full.



You need to add salt right before starting the machine. Thus, the overflowing salty water will be flushed immediately, preventing the risk of corrosion in machine. In cases where you would not start washing immediately, run your machine empty in the shortest program.



Since different salt brands in the market have different particle sizes and since the water hardness may vary, dissolution of the salt in water may take a couple of hours. Therefore, Salt Indicator remains on for a while after adding salt into the machine.

10. CARE AND MAINTENANCE



WARNING: Before cleaning or carrying out maintenance, switch off the appliance, disconnect the power supply and turn off the water tap.



WARNING: Do not repair or replace any part of the dishwasher or attempt any servicing unless specifically recommended by this manual. We recommend that the dishwasher only be repaired by an authorized service agent.



CAUTION : To avoid the possibility of slipping, keep the floor around the dishwasher clean and dry.
Keep your appliance free from the accumulation of combustible materials, such as lint, rags, and chemicals.
If the dishwasher is not in use for an extended period of time, we recommend you check that the baskets are empty, leave the inside of the dishwasher clean, the door cracked open to allow air to circulate, turn off both the power and water supply to the dishwasher.

10.1 CARING FOR YOUR DISHWASHER EXTERIOR



CAUTION :Possible dishwasher damage: Abrasive cleaners, scouring pads, abrasive cloths (paper towels) can damage the dishwasher decorative door.

Cleaning the control panel: Use only soft cloth that is lightly dampened with mild detergent. Clean the control panel only with a moist cloth and clear water.

Cleaning the colored doors: Use only soft cloth that is lightly dampened with mild detergent.

Cleaning the stainless steel doors: Use a soft cloth with a cleaner made for cleaning stainless steel. For the best results, apply the stainless steel cleaner to a soft cloth and wipe the surface in the direction of the grain.

Cleaning the door gasket: Regularly clean the door gasket with a damp cloth to remove food particles and other debris. Use a gentle household cleaner for the outside and the door seals, and rinse thoroughly.

10.2 CARING FOR YOUR DISHWASHER INTERIOR



NOTICE: Cleaning your dishwasher at regular intervals ensures longer product life and reduces the risk of recurring problems. Always disconnect the power to machine before cleaning.

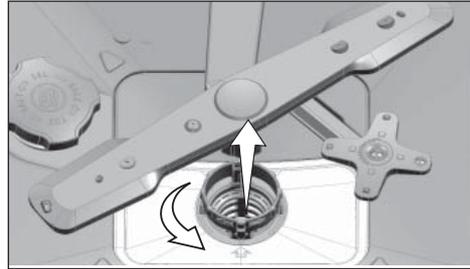


CAUTION :When cleaning the underside of the main filter, care must be taken on the sharp outer edge to avoid the risk of cut type injuries.

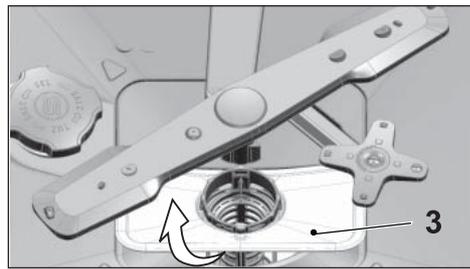
10.3 CLEANING THE FILTERS

Clean the filters at least once a week in order for the machine operate efficiently. Check if food residues are left on the filters. If there are food residues on filters, take them out and clean well under running water.

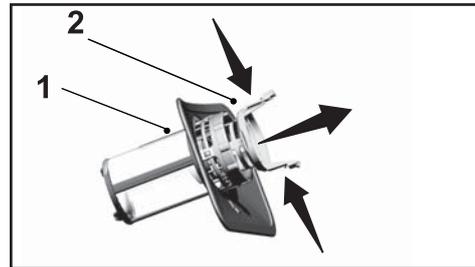
1. Turn the micro filter (1) and coarse filter (2) assembly counterclockwise and pull upwards.



2. Pull out the metal / plastic filter (3).



3. Press the two tabs on the coarse filter inwards and separate the coarse filter from the assembly.



4. Clean all three filters under tap water by means of a brush.
5. Replace the metal/plastic filter.
6. Place the coarse filter into the microfilter. Make sure that it is properly seated. Turn the coarse filter clockwise until a “click” sound is heard.



Do not use the dishwasher without filter.

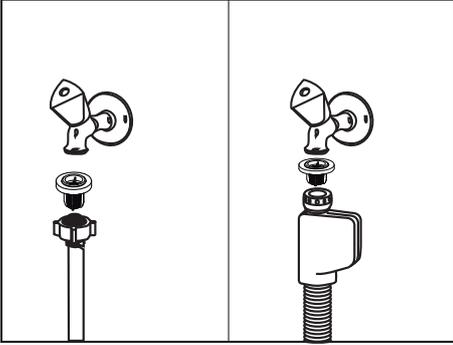


Incorrect placement of the filters will reduce washing efficiency.

10.4 CLEANING THE HOSE FILTER

Damages on the machine that may be caused by impurities coming from the water supply or your own water installation (such as sand, dirt, rust, etc.) can be prevented by means of the filter attached to the water inlet hose. Check the filter and the hose regularly and clean them if necessary.

1. Turn off the tap and remove the hose.
2. Remove the filter and clean under running tap water.
3. Place the cleaned filter back into its seat in the hose.
4. Install the hose to tap.

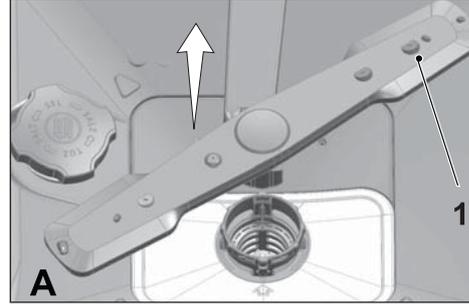


10.5 CLEANING THE WASH ARMS

Clean the wash arms at least once a week in order for the machine operates efficiently.

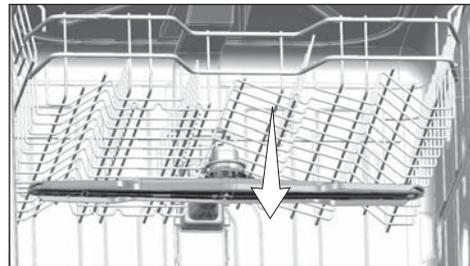
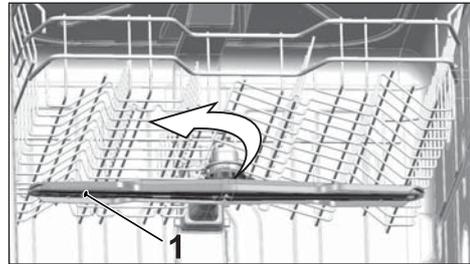
LOWER WASH ARMS

Check if the holes on the lower wash arms (1) are clogged. If they are clogged, remove and clean the impeller. Pull the lower wash arms up to remove it.



UPPER WASH ARMS

Check if the holes on the upper impeller (1) are clogged. If they are clogged, remove and clean the wash arms. Turn nut left to remove the upper wash arms. Make sure that the nut is tightened well when installing the upper wash arms.



1. TROUBLESHOOTING

Machine does not start.

- Power supply not connected. >>> Check the main power supply.
- Circuit Breaker is blown. >>> Check the Circuit Breaker in your house.
- Water is not entering machine. >>> Make sure that the water inlet tap is open.
- Door of the machine is open. >>> Make sure that you have closed the door of the machine.
- On / Off button is not pressed. >>> Make sure that you have turned on the machine by pressing the On / Off button.

Dishes are not washed clean

- Dishes are not placed orderly in the machine. >>> Load the dishes as described in the user manual.
- Selected program is unsuitable. >>> Select a program with a higher temperature and cycle time.
- Wash arms are stuck. >>> Prior to starting the program, turn the lower and upper Wash arms by hand to make sure that they rotate freely.
- Wash arms holes are clogged. >>> Lower and upper Wash arms holes might be clogged with small food particles and debris. Clean the Wash arms regularly as illustrated in section "Cleaning and Care".
- Filters are clogged. >>> Check if the filter system is clean. Clean the filter system regularly as illustrated in section "Cleaning and Care".
- Filters are installed incorrectly. >>> Check the filter system and make sure that it is installed correctly.
- Baskets are overloaded. >>> Do not overload the baskets in excess of their capacity.
- Detergent is stored under unsuitable conditions. >>> If you are using powder detergent, do not store the detergent package in humid places. Keep it in a closed container if possible. For ease of storing, we recommend tablet detergents.
- Detergent is not sufficient. >>> If you are using powder detergent, adjust the amount of detergent according to the soiling degree of your dishes and/or program definitions. We recommend tablet detergents for optimum results.
- Rinse aid is not sufficient. >>> Check the rinse aid indicator and add rinse aid if necessary. Increase the rinse aid setting if there is enough amount of rinse aid in the machine.
- Detergent dispenser lid is left open. >>> Make sure that the detergent dispenser lid is closed tightly after adding detergent.

Dishes are not dry at the end of cycle

- Dishes are not placed orderly in the machine. >>> Place your dishes in a way that no water will accumulate in them.
- Rinse aid is not sufficient. >>> Check the rinse aid indicator and add rinse aid if necessary. Increase the rinse aid setting if there is enough amount of rinse aid in the machine.
- Machine is unloaded right after the program is over. >>> Do not unload your machine right after washing process is completed. Slightly open the door and wait for steam to escape inside of unit. Unload the dishes after the pieces cool down to a touchable level. Start unloading process from the lower basket to prevent dropping of water from items in upper basket onto the items in lower basket.
- Selected program is unsuitable. >>> Since rinsing temperature is low at program with short duration, drying performance will also be low. Select program with longer duration for a better drying performance.
- Surface quality of the kitchen utensils is deteriorated. >>> Desired washing performance can not be obtained for kitchen utensils with deteriorated surfaces and it is not suitable to use such utensils in terms of hygiene as well. Also, water can not flow easily on deteriorated surfaces. It is not recommended to wash such kitchen utensils in dishwasher.



It is normal that drying complaints can be experienced with non-stick kitchen utensils. It is associated with the structure of non-stick. Since the surface tensions of non-stick and water are different, water droplets will remain as beads on the non-stick surface.

Stains remaining on dishes when cycle has completed.

- Selected program is unsuitable. >>> Select a program with a higher temperature and cycle time.
- Surface quality of the kitchen utensils is deteriorated. >>> Tea and coffee stains or other dye spots may not be cleaned in dishwasher when they have penetrated in deteriorated surfaces. Desired washing performance can not be obtained for kitchen utensils with deteriorated surfaces and it is not suitable to use such utensils in terms of hygiene as well. It is not recommended to wash such kitchen utensils in dishwasher.
- Detergent is stored under unsuitable conditions. >>> If you are using powder detergent, do not store the detergent package in humid places. Keep it in a closed container if possible. For ease of storing, we recommend tablet detergents.

Lime traces remain on dishes and glassware gains a misty appearance

- Rinse aid is not sufficient. >>> Check the rinse aid indicator and add rinse aid if necessary. Increase the rinse aid setting if there is enough amount of rinse aid in the machine.
- Water hardness setting is low or salt level is insufficient >>> Measure the hardness of the supply water appropriately and check the water hardness setting.
- Salt leakage exists. >>> Pay attention not to spill salt around the salt filling hole while adding salt. Make sure that the salt reservoir lid is tightly closed after finishing the filling process. Run the Rinse & Hold program to remove the salt that spilled inside the machine. Since the salt granules that will remain under the lid will dissolve during Rinse & Hold, causing the lid to loosen, check the lid once again at the end of the program.

There is a different odor in the machine



A new machine has a peculiar odor. It will fade out after a couple of washing.

- Filters are clogged. >>> Check if the filter system is clean. Clean the filter system regularly as illustrated in section “Cleaning and Care”.
- Dirty dishes are kept in dishwasher for 2-3 days. >>> If you are not going to start the machine right after you have put the dishes into it, remove the remnants on the dishes and run the Rinse & Hold program without detergent every 2 days. In such cases, do not close the door of the machine completely in order to avoid odor build up in machine. You can also use commercially available odor removers or machine cleaners.

Rust, discoloration or surface deterioration occurs on dishes

- Salt leakage exists. >>> Salt may cause deterioration and oxidation on metal surfaces. Pay attention not to spill salt around the salt filling hole while adding salt. Make sure that the salt reservoir lid is tightly closed after finishing the filling process. Run the Rinse & Hold program to remove the salt that spilled inside the machine. Since the salt granules that will remain under the lid will dissolve during Rinse & Hold, causing the lid loosen, check the lid once again at the end of the program.
- Salty food remnants have remained on dishes for a long time. >>> If silverware soiled with such foods will be kept waiting in machine, food particles must be removed by prewash or dishes must be washed without being kept waiting.
- Electric installation is not grounded. >>> Check if your machine is connected to the actual grounding line. Otherwise, the static electric created in the product causes arcs on the surfaces of metal items creating pores, removing the protective cover on the surface and causing discoloration.
- Intensive cleansers such as bleaches are used. >>> Protective cover on metal surfaces gets damaged and loses its efficiency in time when it comes in contact with cleansers such as bleach. Do not wash your dishes with bleach.
- Metal items particularly such as knives are used for purposes other than their intended uses. >>> Protective cover on the edges of knives may get damaged when they are used for purposes such as opening cans. Do not use metal kitchen utensils out of their intended uses.
- Silverware are made of low quality stainless steel. >>> Corrosion on such items is inevitable; they should not be washed in dishwashers.
- Kitchen utensils that are already corroded are washed in dishwasher. >>> Rust on a corroded item can migrate to other stainless steel surfaces and cause corrosion on those surfaces as well. Such items should not be washed in dishwashers.

Detergent remains in detergent dispenser.

- Detergent dispenser was damp when adding detergent. >>> Make sure that the detergent dispenser is dried well prior to filling it with detergent.
- Detergent is added long before the washing process. >>> Pay attention to add detergent shortly before start-up of the washing.
- Opening of the detergent dispenser lid is prevented during washing. >>> Place the dishes in a way that will not prevent the detergent dispenser lid from opening and the water going into the machine from impellers.
- Detergent is stored under unsuitable conditions. >>> If you are using powder detergent, do not store the detergent package in humid places. Keep it in a closed container if possible. For ease of storing, we recommend you to use tablet detergents.
- Wash Arm holes are clogged. >>> Lower and upper Wash Arm holes might be clogged with food remnants. Clean the Wash Arm regularly as illustrated in section “Cleaning and Care”.

Decorations and ornaments on kitchen utensils are being erased.



Decorated glasses and decorated luster porcelains are not suitable for washing in the dishwasher. Manufacturers of glassware and porcelain tableware items do not recommend washing such kitchen utensils in the dishwashers either.

Dishes are scratched.



Kitchen utensils that contains or are made of aluminum should not be washed in dishwasher.

- Salt leakage exists. >>> Pay attention not to spill salt around the salt filling hole while adding salt. Spilled salt can cause scratches. Make sure that the salt reservoir lid is tightly closed after finishing the filling process. Run the Rinse & Hold program to remove the salt that spilled inside the machine. Since the salt granules that will remain under the lid will dissolve during Rinse & Hold, causing the lid to loosen, check the lid once again at the end of the program.
- Water hardness setting is low or salt level is insufficient >>> Measure the hardness of the supply water appropriately and check the water hardness setting.
- Dishes are not placed orderly in the machine. >>> When placing the glasses and other glassware into the basket lean them not against other dishes but the edges or racks of the basket or the glass support wire. Striking of the glasses to each other or to other dishes due to the impact of water during washing can cause breaks, or scratches on their surfaces.

A smear remains on glasses that resembles milk stain which can not be removed when wiped by hand. A bluish / rainbow appearance occurs when the glass is pointed to light.

- Excessive rinse aid is used. >>>Lower rinse aid setting. Clean the spilled rinse aid when adding rinse aid.
- Corrosion has occurred on glass due to soft water. >>> Measure the hardness of the supply water appropriately and check the water hardness setting. If your supply water is soft (<15 gpg), do not use salt. Choose programs that wash in higher temperatures (140-149 degrees Fahrenheit). You can also use glass protective detergents that are commercially available.

Foam forms in the machine.

- Dishes are washed with hand-wash detergent by hand but not rinsed before placing them into the machine. >>> Hand-wash detergents do not contain antifoam. There is no need to hand-wash the dishes before placing them into the machine. Remove heavy soil on the dishes under tap water, with a sponge or towel.
- Rinse aid has spilled into the machine when adding rinse aid. >>> Take care that rinse aid is not spilled in the machine when you are filling it. Clean any spilled rinse aid with the help of a tissue paper/towel.
- Lid of the rinse aid reservoir is left open. >>> Make sure that the lid of the rinse aid reservoir is closed after adding rinse aid.

Kitchen utensils are broken.

- Dishes are not placed orderly in the machine. >>> Load the dishes as described in the user manual.
- Baskets are overloaded. >>> Do not overload the baskets in excess of their capacity.

Water remains in the dishwasher at the end of the program.

- Filters are clogged. >>> Check if the filter system is clean. Clean the filter system regularly as illustrated in section "Cleaning and Care".
- Discharge hose is clogged/blocked. >>> Check the discharge hose. If necessary, remove the discharge hose, clear the blockage and insert is as illustrated in the user manual.

 If you cannot eliminate the problem although you follow the instructions in this section, consult your dealer or the Authorized Service Agent. Never try to repair a nonfunctional product yourself.

12. TECHNICAL FEATURES

Load capacity	
Permissible water pressure	4.35 - 145 psi (0.3 - 10 bars)
Electrical connection	120 V (volts), 12 A (amps), 60Hz (hertz)
Total power	1400 W (watts)
Heater power	1100 W (watts)

 **NOTICE:** Because we continually strive to improve our products, we may change our specifications and design without prior notice.
This device corresponds to the following directives:
UL 749 Household Dishwasher directive.

SERVICE INFORMATION

If service is required, call your authorized service agency.

Have the following information readily available.

- Model number
- Serial number
- Date purchased
- Name of dealer from whom purchased

Clearly describe the problem that you are having. If you are unable to obtain the name of an authorized service agency, or if you continue to have service problems, contact Viking Range, LLC at 1-888-845-4641, or write to:

VIKING RANGE, LLC
PREFERRED SERVICE
111 Front Street
Greenwood, Mississippi 38930 USA

Record the information indicated below. You will need it if service is ever required. The model and serial numbers are located on an identification label attached to the left side of the tank. For access, simply open the door of the dishwasher.

Model no. _____ Serial no. _____

Date of purchase _____ Date installed _____

Dealer's name _____

Address _____

If service requires installation of parts, use only authorized parts to insure protection under the warranty.

Keep this manual for future reference.

**BUILT-IN DISHWASHERS WARRANTY
ONE YEAR FULL WARRANTY**

Built-in dishwashers and all of their component parts, except as detailed below*, are warranted to be free from defective materials or workmanship in normal residential use for a period of one (1) year from the date of original retail purchase. Viking Range, LLC, warrantor, agrees to repair or replace, at its option, any part which fails or is found to be defective during the warranty period.

***FULL NINETY (90) DAY COSMETIC WARRANTY:** Product is warranted to be free from cosmetic defects in materials or workmanship (such as scratches on stainless steel, paint/porcelain blemishes, etc.) for a period of ninety (90) days from the date of original retail purchase or closing date for new construction, whichever period is longer. Any defects must be reported to the selling dealer within ninety (90) days from date of original retail purchase. Viking Range, LLC uses high quality processes and materials available to produce all color finishes. However, slight color variation may be noticed because of the inherent differences in painted parts and porcelain parts as well as differences in kitchen lighting, product locations, and other factors. Therefore, this warranty does not apply to color variation attributable to such factors.

†FULL NINETY (90) DAY WARRANTY IN "RESIDENTIAL PLUS" APPLICATIONS: This full warranty applies to applications where use of the product extends beyond normal residential use, but the warranty period for products used in such applications is ninety (90) days. Examples of applications covered by this warranty are bed and breakfasts, fire stations, private clubs, churches, etc. Under this "Residential Plus" warranty, the product, its components and accessories are warranted to be free from defective material or workmanship for a period of ninety (90) days from the date of original retail purchase. This warranty excludes use of the product in all commercial locations such as restaurants, food service locations and institutional food service locations.

FIVE YEAR LIMITED WARRANTY ON NYLON RACKS, ELECTRONIC CONTROLS, MOTOR/PUMP ASSEMBLY, AND WATER DISTRIBUTION SYSTEM COMPONENTS

Any upper and/or lower nylon rack which rusts through due to defective materials or workmanship and any electronic controls which fail due to defective materials or workmanship in normal household use during the fourth through fifth year from the date of original retail purchase will be repaired or replaced, free of charge for the part itself, with the owner paying all other costs, including labor. Any motor/pump assembly or water distribution system component as listed below which fails due to defective materials or workmanship in normal household use during the fourth through fifth year from the date of original retail purchase will be repaired or replaced, free of charge for the part itself, with the owner paying all other costs, including labor.

Motor/Pump and Water Distribution System Components:

Circulation motor/pump	Tube to upper wash arm
Lower wash arm	Fill valve
Drain motor/pump	Upper wash arm
Diverter	

LIFETIME LIMITED WARRANTY ON STAINLESS STEEL TANK AND LINER

Any stainless steel tank or inner door liner which develops a water leak due to defective materials or workmanship in normal household use during the lifetime of the product will be repaired or replaced, free of charge for the part itself, with the owner paying all other costs, including labor. This warranty excludes surface corrosion or rust, scratches, discoloration, water or atmospheric conditions, or cleaning practices which are part of normal residential use.

TERMS AND CONDITIONS

This warranty extends to the original purchaser of the product warranted hereunder and to each transferee owner of the product during the term of the warranty and applies to products purchased and located in the United States, Canada, Mexico and the Carribean (excluding the Dominican Republic, Cuba, and Haiti). Products must be purchased in the country where service is requested. If the product or one of its component parts contains a defect or malfunction during the full warranty period after a reasonable number of attempts by the warrantor to remedy the defect or malfunction, the owner is entitled to either a refund or replacement of the product or its component part or parts.

Replacement of a component part includes its free installation, except as specified under the limited warranty. Under the terms of this warranty, service must be performed by a factory authorized Viking Range, LLC service agent or representative. Service will be provided during normal business hours, and labor performed at overtime or premium rates shall not be covered by this warranty.

Owner shall be responsible for proper installation, providing reasonable and necessary maintenance, providing proof of purchase upon request, and making the appliance reasonably accessible for service. The return of the Owner Registration Card is not a condition of warranty coverage. You should, however, return the Owner Registration Card so that Viking Range, LLC can contact you should any question of safety arise which could affect you. This warranty gives you specific legal rights, and you may also have other rights which may vary from jurisdiction to jurisdiction.

WHAT IS NOT COVERED BY THIS WARRANTY: This warranty shall not apply to damage resulting from abuse, failure to provide reasonable and necessary maintenance, accident, delivery, negligence, natural disaster, loss of electrical power to the product for any reason, alteration, outdoor use, improper installation, improper operation, or repair or service of the product by anyone other than an authorized Viking Range, LLC service agency or representative. This warranty does not apply to commercial usage.

LIMITATION OF REMEDIES AND DURATION OF IMPLIED WARRANTY

OWNER'S SOLE AND EXCLUSIVE REMEDY FOR A CLAIM OF ANY KIND WITH RESPECT TO THIS PRODUCT SHALL BE THE REMEDIES SET FORTH ABOVE. VIKING RANGE, LLC IS NOT RESPONSIBLE FOR CONSEQUENTIAL OR INCIDENTAL DAMAGE, INCLUDING BUT NOT LIMITED TO FOOD OR MEDICINE LOSS, DUE TO PRODUCT FAILURE, WHETHER ARISING OUT OF BREACH OF WARRANTY, BREACH OF CONTRACT OR OTHERWISE. Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusions may not apply to you. Any implied warranties of merchantability or fitness for a particular purpose applicable to this product are limited in duration to the period of coverage of the applicable express written limited warranties set forth above. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

WARRANTY SERVICE

To obtain warranty service, contact an authorized service agent, or Viking Range, LLC, 111 Front Street, Greenwood, Mississippi 38930, (888) 845-4641. Provide model and serial number and date of original purchase or closing date for a new construction. For the name of your nearest authorized Viking Range, LLC service agency, call Viking Range, LLC.

IMPORTANT: Retain proof of original purchase to establish warranty period.

Specifications subject to change without notice.

Viking Range, LLC
111 Front Street
Greenwood, Mississippi 38930
(662)455-1200

For more product information call 1-888-845-4641
or visit our website at vikingrange.com