

**Amica**

**OPERATING INSTRUCTIONS**  
**EN**

**ZZG 446C**  
**(MP 416 AGW)**



Please carefully read these Operating Instructions  
before using the appliance!

IO-DWS-1069  
(10.2020/1)

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In accordance with European Directive 2012/19/EU and Polish legislation regarding used electrical and electronic goods, this appliance is marked with the symbol of the crossed-out waste container.

This marking indicates that the appliance must not be disposed of together with other household waste after it has been used. The user is obliged to hand it over to waste collection centre collecting used electrical and electronic goods. The collectors, including local collection points, shops and local authority departments provide recycling schemes. Proper handling of used electrical and electronic goods helps avoid environmental and health hazards resulting from the presence of dangerous components and the inappropriate storage and processing of such goods.

The background of the top section features a repeating pattern of various kitchen-related icons in a light gray color. These icons include items like a coffee cup, a teapot, a bowl, a spoon, a fork, a knife, a glass, and a plate, arranged in a scattered, overlapping manner.

# ECOLOGY IN PRACTICE

For many years, Amica has consistently pursued pro-ecological policy. Concern for the environment is as important for us as the use of modern technology.

The development of technology has enabled our factories to become more environmentally friendly – we use less and less water, electricity and less waste water and solid waste is generated in the production.

A lot of attention is paid to materials used in production. We strive to use only those that do not contain harmful substances and make recycling and safe disposal possible after use.

# Dear customer!

Thank you for choosing an Amica product. For years we have delivered high-quality appliances, so that household chores become a real pleasure. Before being packaged and leaving the manufacturer, the appliance was thoroughly checked with regard to safety and functionality. We also endeavour to make sure that modern technology in Amica products always goes hand in hand with a unique design.

Before using the appliance, please carefully read these Operating Instructions. Follow these instructions to avoid improper use and ensure long and reliable operation of the appliance. Learn the principles of the safe use to avoid accidents.

Store these operating instructions in a safe place to use them for reference whenever needed. These Operating Instructions contain all the necessary information that will make the use of your Amica appliance simple and fun. We also encourage you to find out more about other Amica appliances.

We hope using your new appliance is a pleasure.

## **Amica**

# BASIC INFORMATION

Carefully read the operating instructions before plugging dishwasher to a power outlet and using the appliance. Operating instruction include tips that will help you avoid the risk of injury and damage to the appliance. Keep dishwasher documentation in a safe place for possible future use.

These operating instructions have been prepared for a range of appliances and some features described herein may not apply to your appliance.

## MANUFACTURER'S DECLARATION

The manufacturer hereby declares that this product meets the requirements of the following European directives:

- Low Voltage Directive, 2014/35/EU,
  - Electromagnetic Compatibility (EMC) Directive 2014/30/EE,
  - Eco-design Directive 2009/125/EU,
  - RoHS Directive 2011/65/EU,
- and has been marked with the  $\text{CE}$  symbol and issued with a declaration of compliance made available to market regulators.

	Do not abuse, sit on, or stand on the door or dish basket of the dishwasher.
	Do not touch the heating element during or immediately after using.
	Do not operate your dishwasher unless all enclosure panels are properly in place. Open the door very carefully if the dishwasher is operating. There is a risk of water squirting out.
	Do not place any heavy objects or stand on the door when it is open. The appliance could tip forward.
	When loading items to be washed:
	Locate sharp items so that they are not likely to damage the door seal;
	Load sharp knives with the handles up to reduce the risk of cuttype injuries;
	Warning: Knives and other utensils with sharp points must be loaded in the basket with their points down or placed in a horizontal position.
	When using your dishwasher, you should prevent plastic items from contacting with heating element.

	Check that the detergent receptacle is empty after completion of the wash cycle.
	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.
	Use only detergent and rinse additives designed for an automatic dishwasher. Never use soap, laundry detergent, or hand washing detergent in your dishwasher.
	Other means for disconnection from the supply must be incorporated in the fixed wiring with at least 3mm contact separation in all poles.
	Keep children away from detergent and rinse aid, keep children away from the open door of the dishwasher, there could still be some detergent left inside.
	To protect against the risk of electrical shock, do not immerse the unit, cord or plug in water or other liquid.

	<p>This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.</p>
	<p>Dishwasher detergents are strongly alkaline. They can be extremely dangerous if swallowed. Avoid contact with skin and eyes, and keep children away from the dishwasher when the door is open.</p>
	<p>The door should not be left in the open position since this could present a tripping hazard.</p>
	<p>If the supply cord is damaged, it must be replaced by the manufacturer or its service agent or a similarly qualified person in order to avoid a hazard.</p>
	<p>Please dispose of packing materials properly.</p>
	<p>Washing tableware in a household dishwasher usually uses less energy and water than washing up by hand.</p>

## SAFETY AND GERMENT CARE LABELS

	During installation, the power supply must not be excessively or dangerously bent or flattened.
	Do not tamper with controls.
	The appliance is to be connected to the water mains using new hose sets, and the old hose-sets should not be reused.
	Make sure that the carpet must not obstruct the openings at the bottom base.
	Use the dishwasher only for its intended function.
	The dishwasher is intended for indoor use only.
	The dishwasher is not designed for commercial use. It is intended for use in domestic households and in similar working and residential environments.
	Please do not overload your dishwasher. There is only space for 9 standard dishes. Do not use dish that is not suitable for dishwashers. This is important for good results and for reasonable energy consumption.
	Loading the dishwasher to the capacity indicated by the manufacturer will save energy and water.
	It is not recommended to pre-rinse the tableware, as this leads to an increase in water and energy consumption.

# INSTALL THE APPLIANCE

## PLACEMENT OF THE PRODUCT

- When choosing the place of installation, make sure you will be able to easily load and remove dishes and utensils from the dishwasher.
- Do not place the appliance in a room where the temperature can fall below 0°C.
- Before installing unpack the appliance following the instructions on the packaging.
- Place the appliance close to the water valve and drain. When installing the dishwasher assume that the connection will not be changed.
- When you move the appliance do not handle it by the door or control panel.
- Leave some room on all sides to have convenient access to the dishwasher when cleaning.
- Make sure that when you set the dishwasher you do not crush the water supply and drain hoses. Also, make sure that the appliance is not placed on the power cord.
- Level the appliance using the adjustable legs. Proper level ensures trouble-free opening and closing the dishwasher doors.
- If the dishwasher door will not close properly, check that the appliance stands firmly on the floor, if not, adjust using the adjustable legs.

## WATER SUPPLY CONNECTION

- Make sure that domestic water supply system is suitable for the dishwasher. It is recommended to install a filter in the water supply line to avoid damage to the appliance due to impurities (such as sand, clay, rust, etc.) that occasionally occur in water. This will also prevent accumulation of sediment after dishwashing.

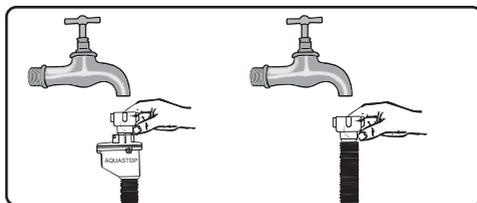
## WATER SUPPLY HOSE



Do not use the water supply hose from the old dishwasher. Use the new water supply hose provided with the appliance. Before connecting, rinse the hose with water. Connect the water supply hose directly to the water feed valve. The domestic water system pressure should be at least 0.04 MPa and up to 1 MPa. If the water pressure exceeds 1 MPa, install pressure reducing valve. When the connection is ready, open the valve completely and check for leaks. For safety reasons, close the water supply tap after every wash.



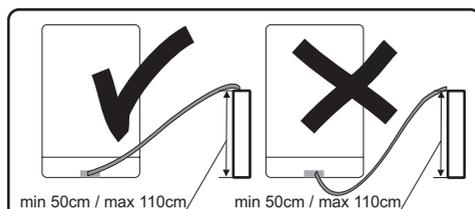
NOTE: Aquastop water supply is used in some dishwasher models. Dangerous voltage could occur with Aquastop. Do not cut the Aquastop water supply. Do not allow it to bend or twist.



**Important!**  
For safety reasons, close the water tap after every wash.

## THE DRAIN HOSE

The drain hose can be connected directly to a water drain or kitchen sink stub pipe. You can also drain the water directly into the sink using the special bracket (if available), placing the drain hose outlet on the kitchen sink edge. The drain hose connection should be made at least 50 cm and up to 110 cm from the floor.



If the drain hose is longer than 4 m, dishes may not be washed properly. The manufacturer is not be held responsible for such a situation.

## ELECTRICAL CONNECTION

Grounded plug must be connected to a grounded power outlet with a proper voltage. If there is no grounding, refer this to a qualified electrician. If you operate the appliance without proper grounding, the manufacturer does not assume any liability for the possible resulting damage.



Domestic electrical system must be protected with a 10-16A fuse.

The appliance must be supplied with 220-240 V AC. If the supply voltage is 110 V, use 3000W, 110/220 V set-up transformer to connect the appliance. Do not connect the appliance during installation.



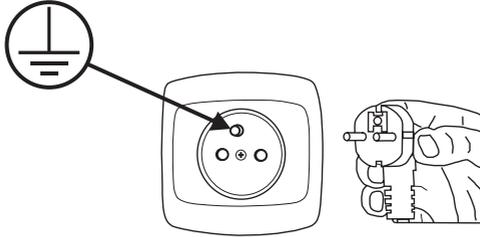
Always use the plug provided with the appliance. When you operate the appliance at lower voltage the dishwashing efficiency will deteriorate and may damage the appliance.

The power cord may only be replaced by authorized service or a qualified electrician. Failure to comply with these rules may lead to an accident.

For safety reasons, you should always unplug the appliance after you have finished using it.

In order not to avoid electric shock, do not remove the plug from the wall outlet with wet hands.

When you unplug the appliance from the wall outlet, always pull the plug. Never pull the power cord.

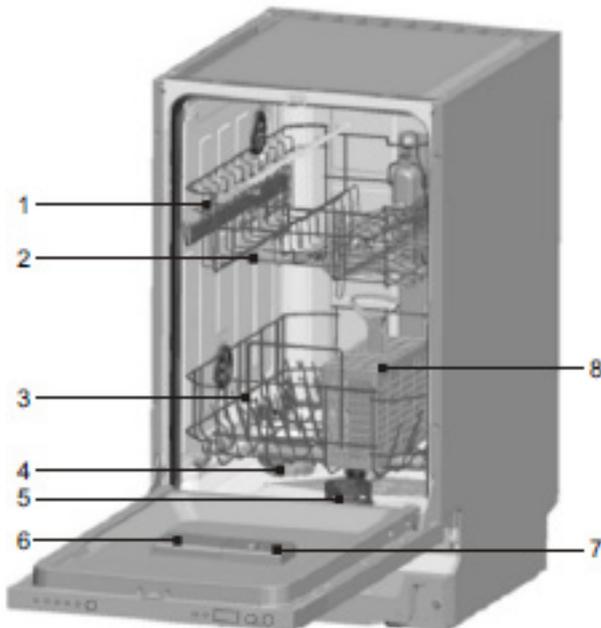


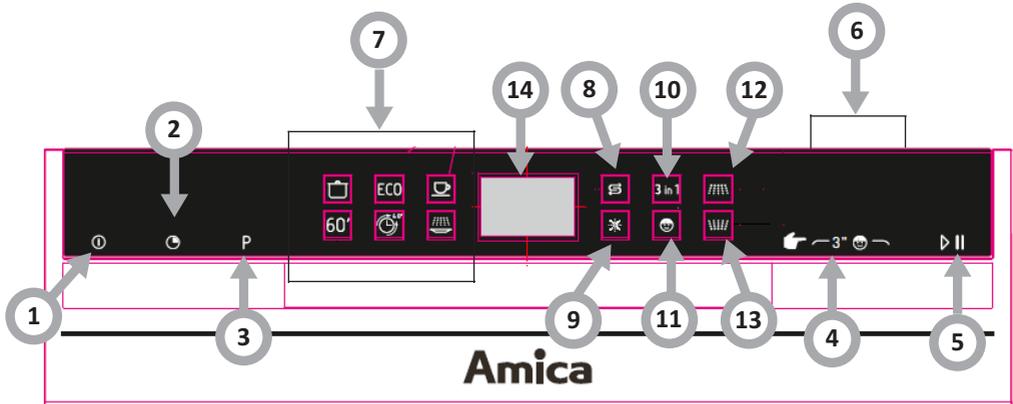
# PRODUCT DESCRIPTION

## DISHWASHER FEATURES

The features and components of the appliance (fig. 1):

- 1 Upper Basket
- 2 Spray Arms
- 3 Lower Basket
- 4 Water Softener
- 5 Filters
- 6 Detergent Dispenser
- 7 Rinse Aid Dispenser
- 8 Cutlery basket





1. Power switch: To turn on/off the power supply.
2. Delay button The START DELAY will allow you to delay the start time of any cycle automatically up to 24hours.
3. Program key-press: Press the key to scroll through the wash cycles. The corresponding programme light will be ON to indicate which WASH CYCLE has been selected.
4. Function alternative button: Press this button you can choose the additional function „3 IN 1“, washing of upper layer or washing of lower layer and the corresponding light flashes.
5. Start \pause button: The appliance will start or pause the expected washing cycle.
6. Child lock button: Press the two buttons for 3 seconds, the appliance could be locked and any button can not be used.
7. Program indicator light When you select a washing programme, the corresponding light will display.
8. Salt refill indicator: The indicator lights up when the softener needs to be refilled.
9. Rinse aid refill indicator: The indicator lights up when dispenser needs to be refilled.
10. 3 in 1 indicator: The indicator lights up when the additional function be selected.
11. Child lock indicator: The child lock will be available when you press the child lock buttons for 3 seconds, and the child lock indicator lights up after flashing 6 times.
12. Washing light of upper layer: To come on when the upper spray arm is washing.
13. Washing light of lower layer: to come on when the lower spray arm is washing.
14. Digital display: To display the running time remain, malfunction codes and delay time.

## PREPARE THE APPLIANCE FOR OPERATION

1

### Before first use

- Before using the appliance, verify that the data given on the rating plate matches that of local power outlets.
- Remove all packing materials from inside of the appliance.
- Prepare special salt (water softener).
- Add 2 kg special salt (intended for dishwashers) to the salt dispenser and fill it with water to the brim.
- Pour into the rinse aid dispenser.

2

### The importance of water descaling

A dishwasher requires soft water (with low calcium content) to operate efficiently. Otherwise, white residue may remain on the dishes and inside the appliance. This has a negative impact on the quality of dishwashing, rinsing and drying. When the water flows through the softener, ions responsible for the water hardness are removed, and the water becomes soft, for best dishwashing results. Depending on the degree of water hardness, the ions responsible for water hardness accumulate quickly inside the water softener. Therefore, the water softener must be regenerated to operate with the same efficiency during the next wash. This is why special salt is used in the dishwasher.

#### Setting

The amount of salt dispensed can be set from H0 to H7.

Salt is not required at the set value H0.

1. Find out about the hardness value of your tap water. Your water utility company will help you with this.
2. Set value can be found in the water hardness table.
3. Close the door.
4. Switch on „Power“ switch.
5. Hold down „Delay“ button and then press „Program“ button for 5 seconds. The buzzer rings one time and H flashes on the digital display. (factory setting is H4).

To change the setting:

1. Press “Delay” button.

Each time the button is pressed, the set value increases by one level; when the value of H7 has been reached, the display jumps back to H0 (off).

2. Press “Program” button. The chosen setting has now been stored.

Contact your local water board for information on the hardness of your water supply.

Water hardness		Mmol/l	Set value on the machine
Clark	Range		
0-8	soft	0-1.1	H0
9-10	soft	1.2-1.4	H1
11-12	medium	1.5-1.8	H2
13-15	medium	1.9-2.1	H3
16-20	medium	2.2-2.9	H4
21-26	hard	3.0-3.7	H5
27-38	hard	3.8-5.4	H6
39-62	hard	5.5-8.9	H7

## Loading the Salt into the Softener

Always use salt intended for use with dishwasher.



NOTE: If your model has no water softener, you may skip this section.

### WATER SOFTENER

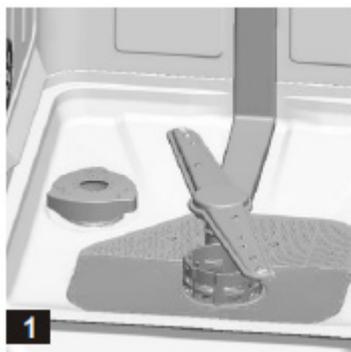
The hardness of the water varies from place to place. If hard water is used in the dishwasher, deposits will form on the dishes and utensils.

The appliance is equipped with a special softener that uses salts specifically designed to eliminate lime and minerals from the water.

The salt container is located beneath the lower basket and should be filled as follows:

### Attention

Only use salt specifically designed for use in dishwashers! All other types of salt not specifically designed for use in a dishwasher, especially table salt, will damage the water softener. In case of damages caused by the use of unsuitable salt the manufacturer does not give any warranty nor is liable for any caused damages. Only fill with salt just before starting one of the complete washing programmes. This will prevent any grains of salt or salty water, which may have been split, remaining on the bottom of the machine for any period of time, which may cause corrosion. After the first wash cycle the control panel light expires.



1. Remove the lower basket and then unscrew and remove the cap from the salt container.
2. If you are filling the container for the first time, fill 2/3 of its volume with water (around 500ml).
3. Place the end of the funnel (supplied) into the hole and introduce about 1.2kg of salt. It is normal for a small amount of water to come out of the salt container.
4. Carefully screw the cap back on.
5. Usually, the salt warning light will be off in 2-6 days after the salt container is filled with salt.



NOTE: The salt container must be refilled when the salt warning light in the control panel comes on. Though the salt container is filled enough, the indicator light may not black out before the salt fully dissolve. If there is no salt warning light in the control panel (for some models), you can judge when to load the salt into the softener by the cycles that the dishwasher had run (see the following schema).

2. If there are spills of the salt, a soak program could be run to wipe them out.

## Fill the Rinse Aid Dispenser

### Function of Rinse Aid

Rinse aid is automatically added during the last rinse, ensuring thorough rinsing, spot and streak free drying.



### Attention!

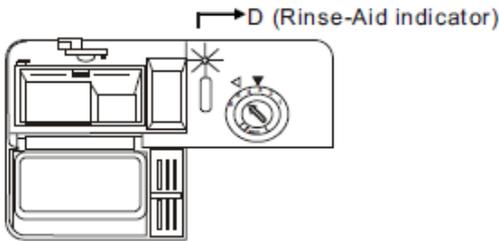
Only use branded rinse aid for dishwasher. Never fill the rinse aid dispenser with any other substances (e.g. dishwasher cleaning agent, liquid detergent). This would damage the appliance.

### When to Refill the Rinse Aid Dispenser

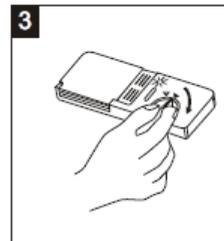
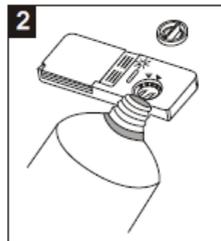
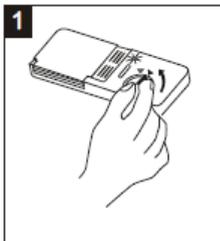
If there is no rinse-aid warning light on the control panel, you can judge the amount of rinse-aid by the color of the optical level indicator „D“ located next to the cap. When the rinse-aid container is full, the whole indicator will be dark. As the rinse aid diminishes, the size of the dark dot decreases. You should never let the rinse aid get below 1 / 4 full.

As the rinse aid diminishes, the size of the black dot on the rinse aid level indicator changes, as illustrated below.

- Full
- 3 / 4 full
- 1 / 2 full
- 1 / 4 full - Should refill to eliminate spotting
- Empty



### RINSE AID DISPENSER



1. To open the dispenser, turn the cap to the „open“ (left) arrow and lift it out.
2. Pour the rinse aid into the dispenser, be careful not to overfill.
3. Replace the cap by inserting it aligned with „open“ arrow and turning it to the „closed“ (right) arrow.

The rinse aid is released during the final rinse to prevent water from forming droplets on your dishes that can leave spots and streaks. It also improves drying by allowing water to sheet off the dishes. Your dishwashers are designed to use liquid rinse aids. The rinse aid dispenser is located inside the door next to the detergent dispenser. To fill the dispenser, open the cap and pour the rinse aid into the dispenser until the level indicator turns completely black. The volume of the rinse aid container is about 140ml. Be careful not to overfill the dispenser, because this could cause over sudsing. Wipe away any spills with a damp cloth. Don't forget to replace the cap before you close dishwasher door.

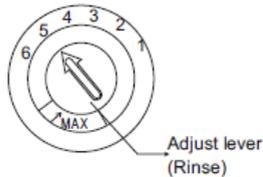
Attention!

Clean up any rinse aid spill during filling with an absorbent cloth to avoid excess foaming during the next wash.



### Adjusting Rinse Aid Dispenser

The rinse aid dispenser has four or six settings. Always start with the dispenser set on "4". If spots and poor drying are problems, increase the amount of rinse aid dispensed by removing the dispenser lid and rotating the dial to "5". If the dishes still are not drying properly or are spotted, adjust the dial to the next higher number until your dishes are spot-free. The dose is factory set in position 5.



NOTE: Increase the dose if there are drops of water or lime spots on the dishes after washing. Reduce it if there are sticky whitish streaks on the dishes or a bluish film on glassware or knife blades.



### Function of Detergent

Detergents with its chemical ingredients are necessary to remove dirt, crush dirt and transport it out of the dishwasher. Most of commercial quality detergents are suitable for this purpose.

### Concentrated Detergent

Based on their chemical composition, dishwasher can be split in two basic types:

- conventional, alkaline detergents with caustic components low alkaline concentrated
- detergents with natural enzymes

The use of "Eco" washing programme in conjunction with concentrated detergents reduces pollution and is good for your dishes; these washing programmes are specially matched to the dirt-dissolving properties of the enzymes of the concentrated detergent. For this reason "Eco" washing programme in which concentrated detergents are used can achieve the same results that can otherwise only be achieved using "intensive" programme.

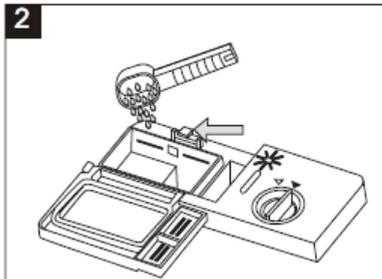
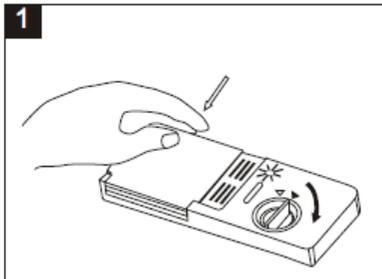
### Detergent Tablets

Detergent tablets of different brands dissolve at different speeds. For this reason some detergent cannot dissolve and develop their full cleaning power during short programmes. Therefore please use long programmes when using detergent tablets, to ensure the complete removal of detergent residuals.

## Detergent Dispenser

The dispenser must be refilled before the start of each washing cycle following the instructions provided in the Wash Cycle Table. Your dishwashers use less detergent and rinse aid than conventional dishwashers. Generally, only one tablespoon of detergent is needed for a normal wash load. Also, more heavily soiled items need more detergent. Always add the detergent just before starting dishwasher, otherwise it could get damp and will not dissolve properly.

### Amount of Detergent to Use



2. Always add the detergent just before starting each wash cycle. Only use branded detergent aid for dishwasher.

### WARNING!

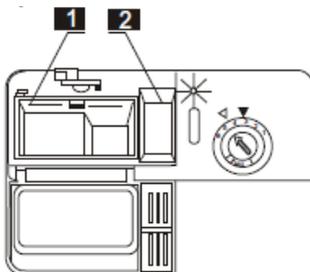
**Dishwasher detergent is corrosive! Take care to keep it out of reach of children.**

Use only detergent specifically made for use in dishwashers. Keep your detergent fresh and dry. Don't put powder detergent into the dispenser until you're ready to wash dishes.

### Fill in the detergent

Fill the detergent dispenser with detergent. The marking indicates the dosing levels, as illustrated on the right:

1. The place of main wash cycle detergent placed, MIN means approximately 20g of detergent.
2. The place of pre-wash cycle detergent placed, approximately 5g of detergent.



Please observe the manufacturer's dosing and storage recommendations as stated on the detergent packaging.

Close the lid and press until it locks in place.

If the dishes are heavily soiled, place an additional detergent dose in the pre-wash detergent.

Chamber. This detergent will take effect during the pre-wash phase.



#### NOTE:

You find information about the amount of detergent for the single programme on the last page.

Please be aware that according to the level soiling and the specific hardness of water, differences are possible. Please observe the manufacturer's recommendations on the detergent packaging.

#### Detergents

There are 3 sorts of detergents

1. With phosphate and with chlorine
2. With phosphate and without chlorine
3. Without phosphate and without chloride

Normally new pulverized detergent is without phosphate. The water softener function of phosphate is not given. In this case we recommend to fill salt in the salt container even when the hardness of water is only 6 dH. If detergents without phosphate were used in case of hard water often white spots appear at dishes and glasses. In this case please add more detergent to reach better results. Detergents without chlorine do only bleach a little. Strong and coloured spots will not removed completely. In this case please choose a programme with higher temperature.

#### Use of „3 in 1“ Detergent Tablets

##### General Advice

1. Before using these products you should first check that the water hardness in your supply is compatible with the use of these products as per the detergent manufacturers instructions (on the product packaging).
2. These products should be strictly used according to the detergent manufacturers instructions.
3. If you encounter problems when using „3 in 1“ products for the first time then please contact the detergent manufacturers care line (the telephone number is given on the product packaging).

These products are detergents with integrated and combined detergent/rinse aid and salt functions.

Before using these products you should first check that the water hardness in your supply is compatible with the use of these products as per the detergent manufacturers (on the product packaging).

##### Special Advice

When using combination products, the rinse-aid and salt lights are no longer useful. It may be helpful to select the lowest possible setting for water hardness.

To select „3in1“ function:

1. Press the power switch and select the 3in1 washing cycle by pressing the button „ALT“ until the „3in1“ indicator blinks.
2. The 3in1 washing cycle will be available after pressing the start/pause button, and the „3in1“ indicator lights.

To cancel “3in1” function:

1. Follow the ‘Cancelling a programme in progress’ instructions. If you decide to switch to the use of a standard detergent system we advise that you: 1. Refill both the salt and rinse aid compartments.
2. Switch the water hardness setting to the highest possible position and run for three normal cycles without load.
3. Readjust the water hardness setting again according to the conditions for your region (For more information please refer to your instruction manual).

Note: 3in1 washing cycle is additional function, they must be used with other programme (Intensive, Eco and Light).

## LOADING THE DISHWASHER BASKETS

For best performance of the dishwasher, follow these loading guidelines. Features and appearance of baskets and silverware baskets may vary from your model.

### Attention before or after Loading the Dishwasher Baskets

Scrape off any large amounts of leftover food. It is not necessary to rinse the dishes under running water. Place objects in the dishwasher in the following way:

1. Items such as cups, glasses, pots/pans, etc. are stood upside down.
2. Curve items, or those with recesses, should be at a slant so that water can run off.
3. They are stacked securely and can not tip over.
4. They do not prevent the spray arms from rotating while washing takes place.

Very small items should not be washed in the dishwasher as they could easily fall out of the baskets.

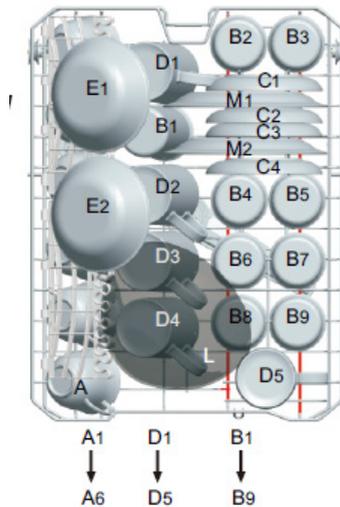
### Removing the Dishes

To prevent water dripping from the upper basket into the lower basket, we recommend that you empty the lower basket first and then the upper basket.

1

### Loading the Upper Basket

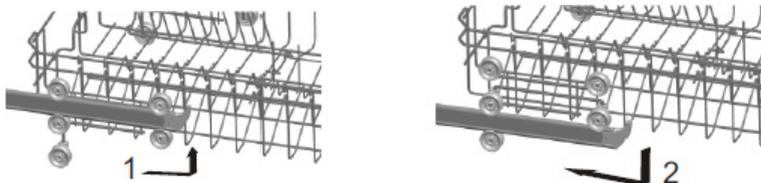
The upper basket is designed to hold more delicate and lighter dishware such as glasses, coffee and tea cup and saucers, as well as plates, small bowls and shallow pans (as long as they are not too dirty). Position the dishes and cookware so that they do not get moved by the spray of water.



Upper basket	
Type	Item
A	Cup
B	Glass
C	Saucer
D	Mug
E	Dessert bowl
L	Glass bowl
M	Melamine dessert plate

## Adjusting the Upper Basket

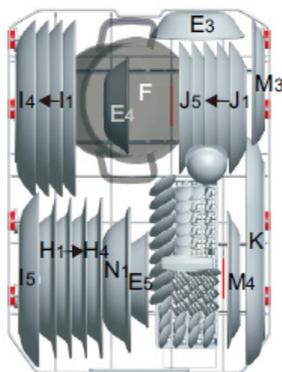
If required, the height of the upper basket can be adjusted in order to create more space for large utensils either in the upper basket or lower basket. The upper basket can be adjusted for height by putting wheels of different height into the rails. Long items, serving cutlery, salad servers or knives should be placed on the shelf so that they do not obstruct the rotation of the spray arms. The shelf can be folded back or removed when not be required for use.



2

## Loading the Lower Basket

We recommend that you place large items which are most difficult to clean in to the lower basket: pots, pans, lids, serving dishes and bowls, as shown in the figure below. It is preferable to place serving dishes and lids on the side of the baskets in order to avoid blocking the rotation of the top spray arm. Pots, serving bowls, etc. must always be placed top down. Deep pots should be slanted to allow water to flow out. The bottom basket features fold down tine rows so that larger or more pots and pans can be loaded.

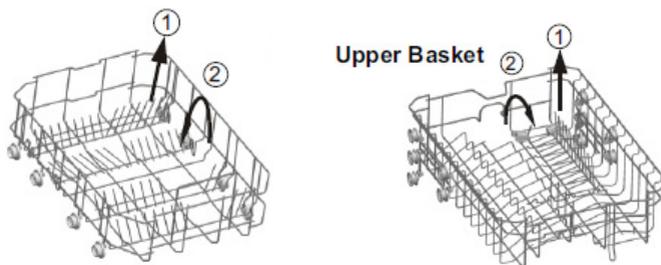


Lower basket	
Type	Item
E	Dessert bowl
H	Soup plate
I	Dinner plate
J	Dessert plate
K	Oval plate
F	Small pot
M	Melamine dessert plate
N	Melamine bowl

3

## \*Upper and Lower basket Folding racks

Folding racks consisting of two parts that are located on the upper and lower basket of your machine are designed in order to let you place big items easier as pots, pans, etc. If requested, each part can be folded separately, or all of them can be folded and larger can be obtained. You can use folding racks by raising then upwards, or by folding.

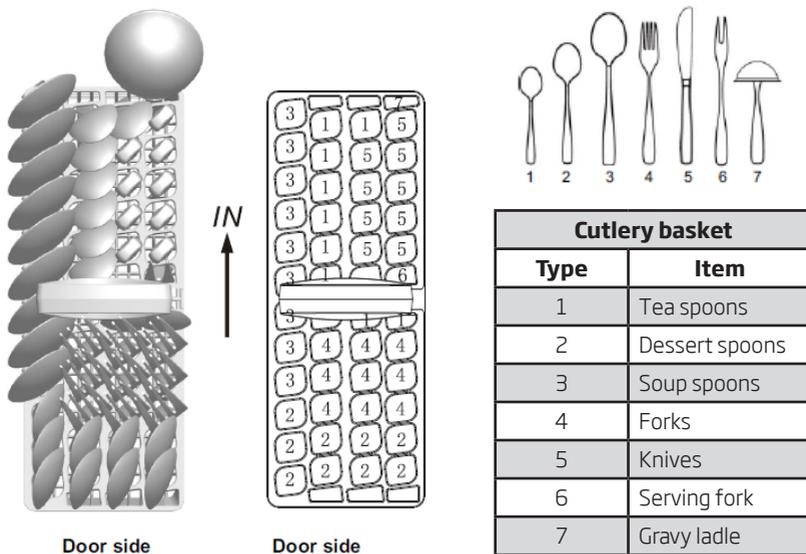


Lower Basket

\*for optional

## Cutlery Basket and Fork shelf

Cutlery should be placed in the cutlery basket with handles at the bottom: If the basket has side baskets, the spoon should be loaded individually into the appropriate slots, especially long utensils should be placed in the horizontal position at the front of the upper basket.



For washing in the dishwasher the following cutlery/dishes



### Are not suitable

- Cutlery with wooden, horn china or mother-of-pearl handles
- Plastic items that are not heat resistant
- Older cutlery with glued parts that is not temperature resistant
- Bonded cutlery items or dishes
- Pewter or cooper items
- Lead crystal glass
- Steel items subject to rusting
- Wooden platters
- Items made from synthetic fibre

Do not let any item extend through bottom.



### Are of limited suitability

Some types of glasses can become dull after a large number of washes

Silver and aluminium parts have a tendency to discolour during washing

Glazed patterns may fade if machine washed frequently



**NOTE:** Do not put in items that are dirty of cigarette ash, candle wax, lacquer or paint. If you buy new dishes please make sure that they are suitable for dishwashers.



**NOTE:** Please do not overload your dishwasher. There is only space for 9 standard dishes. Do not use dish that is not suitable for dishwashers. This is important for good results and for reasonable energy consumption.

5

**Loading Cutlery and Dishes**

Before loading the dishes, you should:  
 Remove large left-over  
 Soften remnants of burnt food in pans

**When Loading the Dishes and Cutlery, Please Note:**

**Dishes and cutlery must not impede the rotation of the spray arms.**  
**Load hollow items such as cups, glasses, pans etc. with the opening downwards so that water cannot collect in the container or a deep base.**  
**Dishes and items of cutlery must not lie inside one another, or cover each other**

- **To avoid damage to glasses, they must not touch**
- **Load large items which are most difficult to clean into the lower basket**
- **The upper basket is designed to hold more delicate and lighter dishware such as glasses, coffee and tea cups**

**Long bladed knives stored in an upright position are a potential hazard!**  
**Long and/or sharp items of cutlery such as carving knives must be positioned horizontally in the upper basket.**

6

**Damage to Glassware and other Dishes****Possible causes:**

- Type of glass or manufacturing process. Chemical composition of detergent.
- Water temperature and duration of dishwasher programme.

**Suggested remedy:**

- Use glassware or porcelain dishes that have been marked dishwasher-proof by the manufacturer.
- Use a mild detergent that is described as kind of dishes. If necessary, seek further information from detergent manufacturers.
- Select a programme with a low temperature.
- To prevent damage, take glass and cutlery out of the dishwasher as soon as possible after the programme has ended.

7

**At the End of the Wash**

When the working cycle has finished, the buzzer of dishwasher will ring for 6 times, then stop. Turn off the appliance using the "Power" button, shut off the water supply and open the door of the dishwasher. Wait a few minutes before unloading the dishwasher to avoid handling the dishes and utensils while they are still hot and more susceptible to breakage. They will also dry better.

8

## Turning on the Appliance

Starting a wash cycle...

1. Draw out the lower and upper basket, load the dishes and push them back. It is recommended to load the lower basket first, then the upper one (see the section entitled „Loading the Dishwasher“). Pour in the detergent (see the section entitled „Salt, Detergent and Rinse Aid“).
2. Insert the plug into the socket. The power supply is 220-240V AC 50 Hz, the specification of the socket is 12 A 250 VAC.50 Hz. Make sure that the water supply is turned on to full pressure. Close the door, press the “Power” button, Press the “Program” button to select a desired “Wash cycle”. (See the section entitled “Wash Cycle Table”). With a little force to ensure the door is properly closed.



**NOTE:** A click could be heard when the door is closed perfectly. When the washing is over, you can shut off the switch by pressing “Power” button.

9

## Change the Programme

Premise: A cycle that is underway can only be modified if it has only been running for a short time. Otherwise, the detergent may have already been released, and the appliance may have already drained the wash water. If this is the case, the detergent dispenser must be refilled (see the section entitled „Fill in the Detergent „). Press “Power” button to cancel the programme, and turn on it again, then you can change the programme to the desired cycle setting (see the section entitled „Starting a wash cycle. . . “).



**NOTE:** If you open the door when washing, the machine pauses and warning alarm rings, the display appears E1. When you close the door, the machine will keep on working after 10 seconds.

The 6 programme lights show the state of the dishwasher:

- a) One of the programme lights on --> cycle running
- b) One of the programme lights blinking --> pause



**NOTE:** If all the lights begin to glimmer, that indicates the machine is out of order, please turn off the main power and water supply before calling a service.

10

## Forget to Add Dish

A forgotten dish can be added any time before the detergent cup opens.

1. Open the door a little to stop the washing.
2. After the spray arms stop working, you can open the door completely.
3. Add forgotten dishes.
4. Close the door, the dishwasher will work after ten seconds.



It is dangerous to open the door when washing, because the hot water may scald you. Switch Off the Dishwasher

The digital display appears “---” and the buzzer rings 6 times, only in this case the program has ended.

1. Switch off the dishwasher by pressing the “On/Off” button.

2. Turn off the water tap!

Open the door carefully. Hot steam may escape when the door is opened!

- Hot dishes are sensitive to knocks. The dishes should therefore be allowed to cool down around 15 minutes before removing from the appliance.
- Open the dishwasher’s door, leave it ajar and wait a few minutes before removing the dishes. In this way they will be cooler and the drying will be improved.

## Unloading the dishwasher

It is normal that the dishwasher is wet inside.

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

## MAINTENANCE AND CLEANING

1

### Filtering System

The filter is used to avoid the big remnants and other sundries getting inside the pump. The residue can obstruct the filter in sometime.

The filter system consists of a coarse filter, a flat (Main filter) and a micro filter (fine filter).

#### 1 Flat filter

Food and debris will be trapped by a special jet on the lower spray arm.

#### 2 Coarse filter

Big debris, such as bone and glass that could clog the drain will be trapped in the coarse filter. To remove an item caught in this filter, gently squeeze the taps on the top of this filter and lift it out.

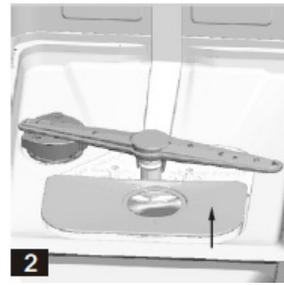
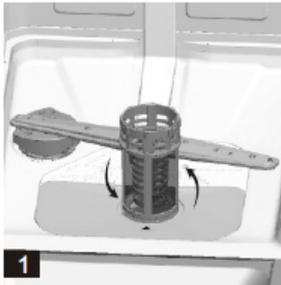
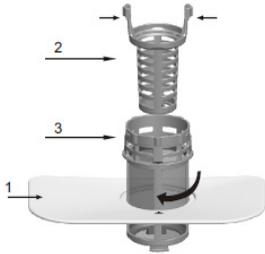
#### 3 Micro filter

This filter holds soil and food residue in the sump area and prevents it from being redeposit on the dishes during a cycle.

- Inspect the filters for obstructions every time the dishwasher has been used.
- By unscrewing the coarse filter, you can remove the filter system. Remove any food remnants and clean the filters under running water.

Step 1 contrarotate the Coarse filter ,and then lift it up;

Step 2 lift the Flat filter up



**NOTE:** If operate from step 1 to step 2, the filter system will be removed; while operate from step 2 to step 1, the filter system will be installed (3).

### Filter assembly

For best performance and results, the filter assembly must be cleaned. The filter efficiently removes food particles from the wash water, allowing it to be recirculated during the cycle. For this reason, it is a good idea to remove the larger food particles trapped in the filter after each wash cycle by rinsing the semicircular filter and cup under running water. To remove the filter assembly, pull on the cup handle in the upward direction. The entire filter assembly should be cleaned once a week. To clean the coarse filter and the micro filter, use a cleaning brush. Then, reassemble the filter parts as shown in the figures above and reinsert the entire assembly in the dishwasher, positioning in its seat and pressing downward. The dishwasher must never be used without the filters. Improper replacement of the filter may reduce the performance level of the appliance and damage dishes and utensils.



**Never run the dishwasher without the filters in place. When cleaning the filters, don't knock on them. Otherwise, the filters could be contorted and the performance of dishwasher could be debased.**

2

### Cleaning the Spray Arms

It is necessary to clean the spray arms regularly for hard water chemicals will clog the spray arm jets and bearings. To remove the spray arms, screw off the nut clockwise to take out the washer on top of the spray arm and remove the arm. Wash the arms in soapy and warm water and use a soft brush to clean the jets. Replace them after rinsing thoroughly.



3

### Caring for the Dishwasher

To clean the control panel, use a lightly dampened cloth then dry thoroughly. To clean the exterior, use a good appliance polish wax. Never use sharp objects, scouring pads or harsh cleaners on any part of the dishwasher.

4

### Protect Against Freezing

If your dishwasher is left in an unheated place during the winter, ask a service technical to:

1. Cut off electrical power to the dishwasher.
2. Turn off the water supply and disconnect the water inlet pipe from the water valve.
3. Drain water from the inlet pipe and water valve. (Use a pan to catch the water)
4. Reconnect the water inlet pipe to the water valve.
5. Remove the filter in the tub and the bottom and use a sponge to use up water in sump.

5

### Cleaning the Door

To clean the edge around the door, you should use only a soft warm, damp rag. To prevent penetration of water into the door lock and electrical components, do not use a spray cleaner of any kind. Also, never use abrasive cleaners or scouring pads on the outer surfaces because they will scratch the finish. Some papers towels can also scratch or leave marks on the surface.



**Never use a spray cleaner to clean the door panel for it could damage the door lock and electrical components. It is not allowed to use the abrasive agent or some paper towel because of the risk of scratching or leaving spots on the stainless steel surface.**

## How to Keep Your Dishwasher in Shape:

### ■ **After Every Wash**

After every wash, turn off the water supply to the appliance and leave the door slightly ajar so that moisture and odors are not trapped inside.

### ■ **Remove the Plug**

Before cleaning or performing maintenance, always remove the plug from the socket. Do not run risks.

### ■ **No Solvents or Abrasive Cleaning**

To clean the exterior and rubber parts of the dishwasher, do not use solvents or abrasive cleaning products. Use only a cloth and warm soapy water. To remove spots or stains from the surface of the interior, use a cloth dampened with water and a little white vinegar, or a cleaning product made specifically for dishwashers.

### ■ **When You Go on holiday**

When you go on holiday, it is recommended that you run a wash cycle with the dishwasher empty and then remove the plug from the socket, turn off the water supply and leave the door of the appliance slightly ajar. This will help the seals last longer and prevent odors from forming in the appliance.

### ■ **Moving the Appliance**

If the appliance must be moved, try to keep it in the vertical position. If absolutely necessary, it can be positioned on its back.

### ■ **Seals**

One of the factors that cause odors to form in the dishwasher is food that remains trapped in the seals. Periodic cleaning with a damp sponge will prevent this.

### **Attention:**

The installation of the pipes and electrical equipments should be done by professionals.

**Electrical Shock Hazard! Disconnect electrical power before installing dishwasher. Failure to do so can result in death or electrical shock.**

## ERROR CODES

When some malfunctions happen, the appliance will display error codes to warn you.

<b>CODES</b>	<b>MEANINGS</b>	<b>POSSIBLE CAUSES</b>
E1	Door open	The door is opened when the dishwasher is operating
E2	Water inlet	Water inlet malfunction
E3	Water drainage	Water drainage malfunction
E4	Temperature sensor	Temperature sensor malfunction
E5	Overflow/leakage	Overflow occurs/Water leakage occurs
E6	Water leakage	Water leakage occurs
E7	Heating element	Abnormal heating



If overflow occurs, turn off the main water supply before calling a service. If there is water in the base pan because of an overfill or small leak, the water should be removed before restarting the dishwasher.

Dishwasher doesn't run	Fuse blown, or the circuit breaker acted	Replace fuse or reset circuit breaker. Remove any other appliances sharing the same circuit with the dishwasher.
	Power supply is not turned on	Make sure the dishwasher is turned on and the door is closed securely. Make sure the power cord is properly plugged into the wall socket.
	Water pressure is low	The system is designed to detect an overflow. When it does, it shuts off the circulation pump and turns on the drain pump.
Drain pump doesn't stop	Overflow	The system is designed to detect an overflow. When it does, it shuts off the circulation pump and turns on the drain pump.
Noise	Some audible sounds are normal	Sound from detergent cup opening.
	Utensils are not secure in the baskets or something small has dropped into the basket	To ensure everything is secured in the dishwasher.
	Motor hums	Dishwasher has not been used regularly. If you do not use it often, remember to set it to fill and pump out every week, which will help keep the seal moist.
Suds in the tub	Improper detergent	Use only the special dishwasher detergent to avoid suds. If this occurs, open the dishwasher and let suds evaporate. Add 1 gallon of cold water to the tub. Close and latch the dishwasher, then start the "pre-rinse" wash cycle to drain out the water... Repeat if necessary.
	Spilled rinse agent	Always wipe up rinse agent spills immediately.
Stained tub interior	Detergent with colorant was used	Make sure that the detergent is the one without colorant.
Dishes and flatware not clean	Improper program Improper basket loading	Select a stronger programme. Make sure that the action of the detergent dispenser and spray arms are not blocked by large dishware.
Spots and filming on glasses and flatware	1 Extremely hard water 2 Low inlet temperature 3 Overloading the dishwasher 4 Improper loading 5 Old or damp powder detergent 6 Empty rinse agent dispenser 7 Incorrect dosage of detergent	To remove spots from glassware: 1 Take out all metal utensils out of the dishwasher. 2 Do not add detergent. 3 Choose the longest cycle. 4 Start the dishwasher and allow it to run for about 18 to 22 minutes, then it will be in the main wash. 5 Open the door to pour 2 cups of white vinegar into the bottom of the dishwasher. 6 Close the door and let the dishwasher complete the cycle. If the vinegar does not work: Repeat as above, except use 1/4 cup (60 ml) of citric acid crystals instead of vinegar.
Cloudiness on glassware	Combination of soft water and too much detergent	Use less detergent if you have soft water and select a shortest cycle to wash the glassware and to get them clean.

Yellow or brown film on inside surfaces	Tea or coffee stains	Using a solution of 1/2 cup of bleach and 3 cups of warm water to remove the stains by hand. <b>WARNING</b> You have to wait for 20 minutes after a cycle to let the heating elements cool down before cleaning interior; otherwise, burns will happen.
	Iron deposits in water can cause an overall film	You have to call a water softener company for a special filter.
White film on inside surface	Hard water minerals	To clean the interior, use a damp sponge with dishwasher detergent and wear rubber gloves. Never use any other cleaner than dishwasher detergent for the risk of foaming or suds.
The Detergent dispenser lid cannot be closed properly	Clogged detergent residue is blocking the catch	Clean the detergent from the catch.
Detergent left in dispenser cups	Dishes block detergent Cups	Re-loading the dishes properly.
Steam	Normal phenomenon	There is some steam coming through the vent by the door latch during drying and water draining.
Black or gray marks on dishes	Aluminum utensils have rubbed against dishes	Use a mild abrasive cleaner to eliminate those marks.
Water standing on the bottom of the tub	This is normal	A small amount of clean water around the outlet on the tub bottom keeps the water seal lubricated.
Dishwasher leaks	Overfill dispenser or rinse aid spills	Be careful not to overfill the rinse aid dispenser. Spilled rinse aid could cause oversudsing and lead to overflowing. Wipe away any spills with a damp cloth.
	Dishwasher isn't level	Make sure the dishwasher is level.
Water standing on the bottom of the tub	Food residue or glass shards clogged the pump.	Remove foreign body.

## INSTALLATION

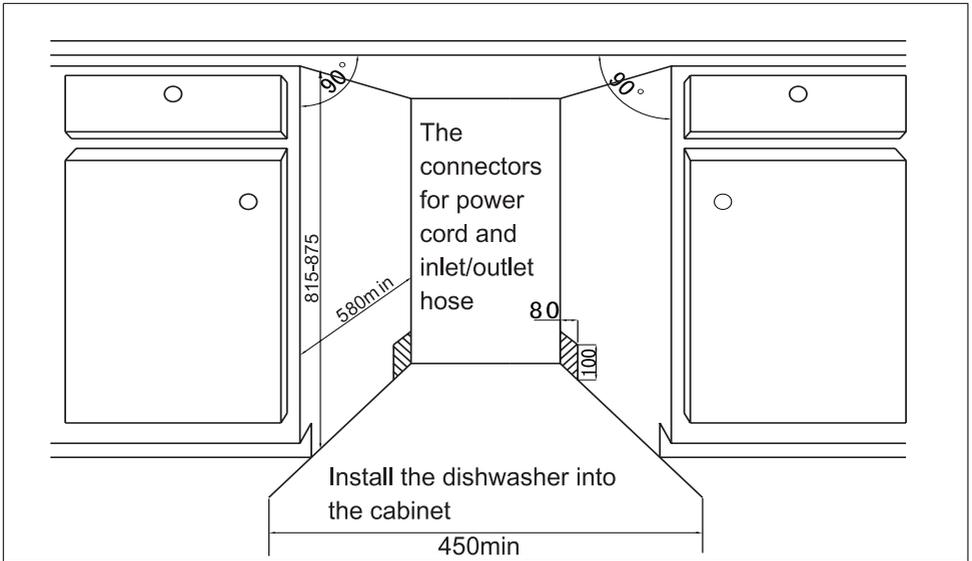


Water pipe and electric device should be installed by professionals.  
Cut off the power before installing the dishwasher, or electric shock may occur.

1

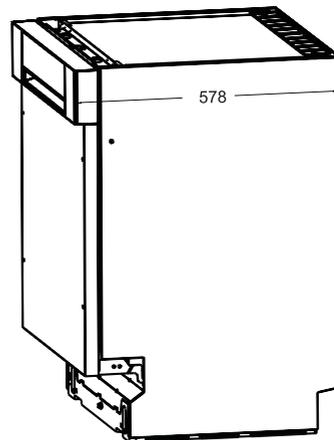
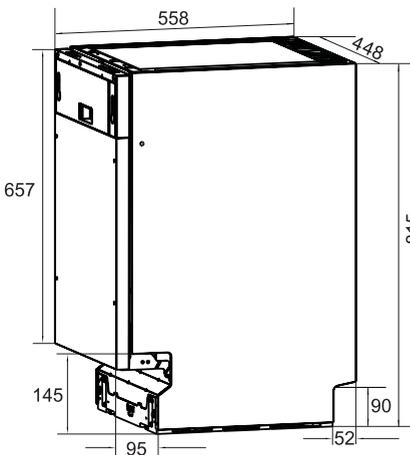
### Before Installation

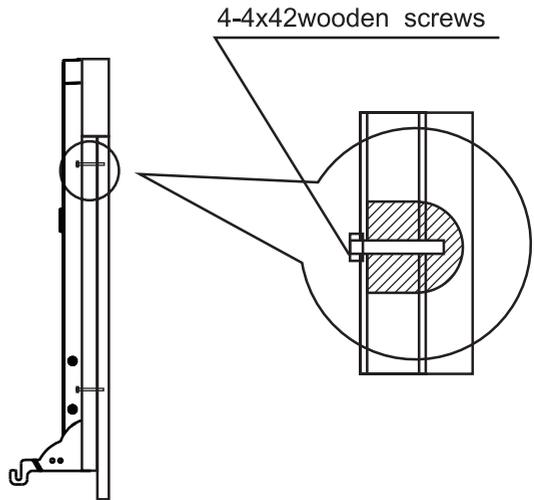
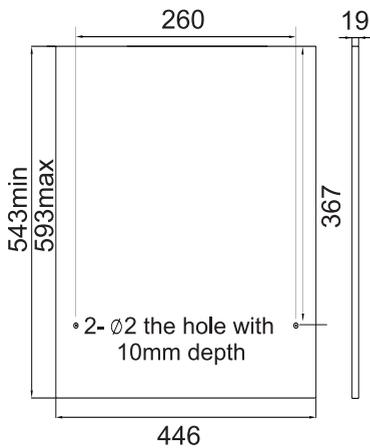
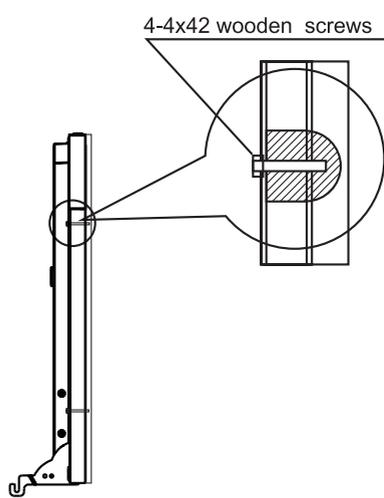
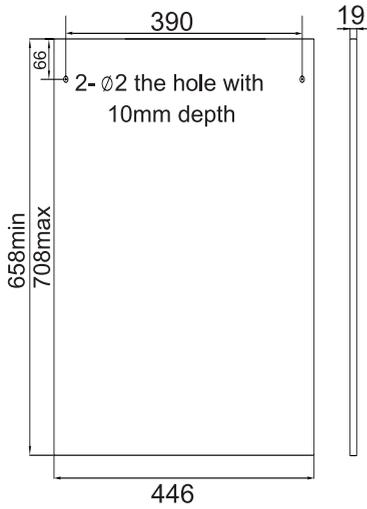
- Dishwasher place requirement. The back of dishwasher should face to the wall, and the dishwasher has inlet and outlet pipe, which can be connected on the right or left side conveniently.
- The dimensions of installation Cabinet



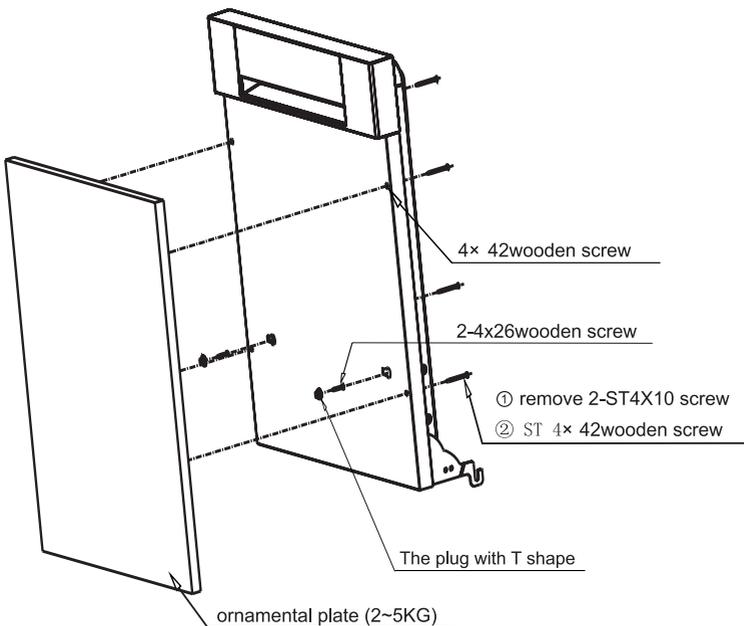
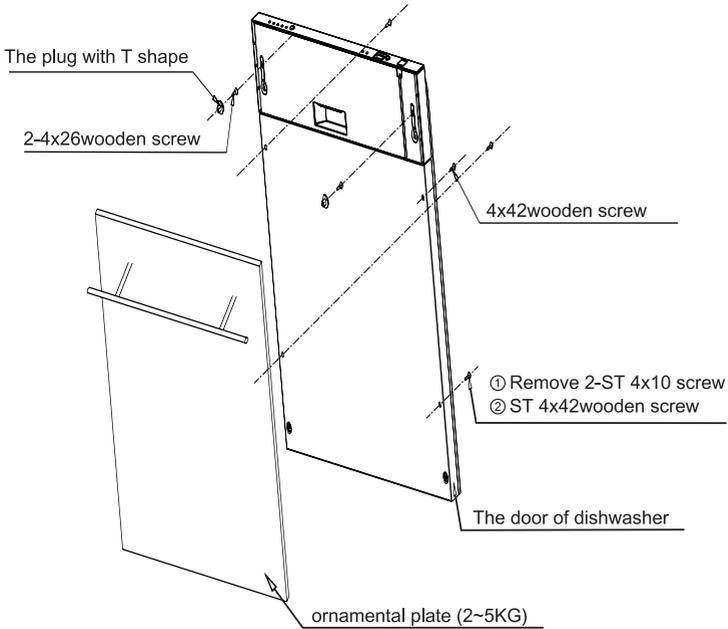
Fully built in

Semi-built in





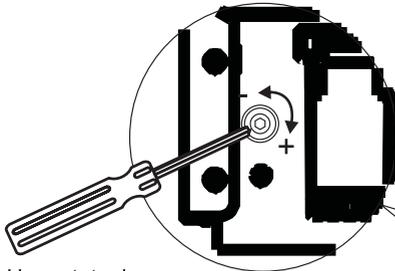
## Fix the ornamental plate



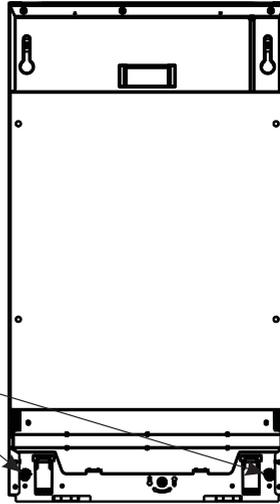
4

#### Tension Adjustment of the Door Spring

After placed the panel on the dishwasher, please try open and close the door to test the balance to check out whether the door can remain a same place. If not, please adjusting the screw in the direction of clockwise or counter-clockwise to adjust the balance of the door. Or it has been adjusted.



Hexnut tools  
CR-V 4mm



5

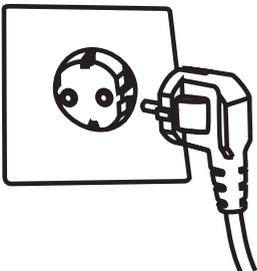
#### Connecting the water inlet hose(for cold water)

Connection the cold water supply hose to a threaded 3/4(inch) connector and make sure that it is fastened tightly in place. If the water hoses are new or have not been used for an extended period of time, let the water run to make sure that the water is clear and free of impurities. If this precaution is not taken, there is a risk that the water inlet can get blocked and the appliance could be damaged.



#### Electrical connection

Make sure the socket is compatible with the plug of the appliance. The socket must have earthing wire, and can hold 250V/10A, otherwise damage or accident may occur. Other electric appliance with big power can not use the same socket with the dishwasher.

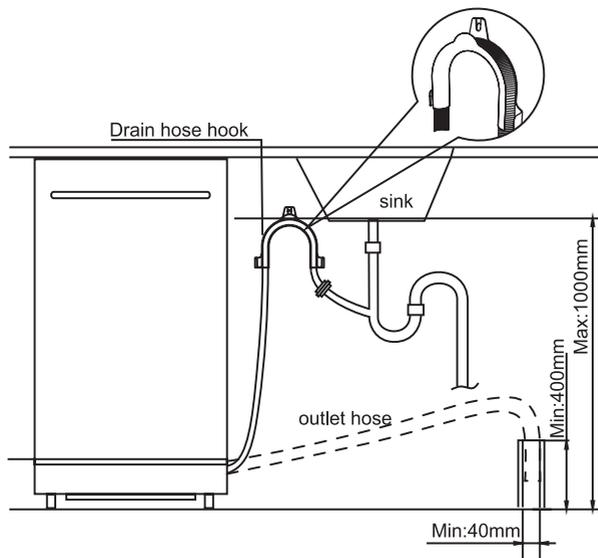


6

### Connecting the water outlet hose

Put the hose into drainage hose which diameter is more than 40 mm or into the sink, both should make sure the outlet pipe is straight, and the height of the end of pipe should be less than 1000 mm.

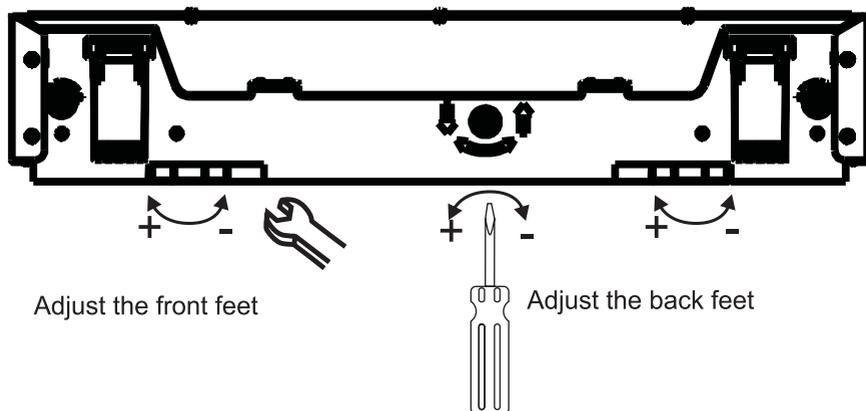
Notice: The connector of the outlet pipe should be tight.

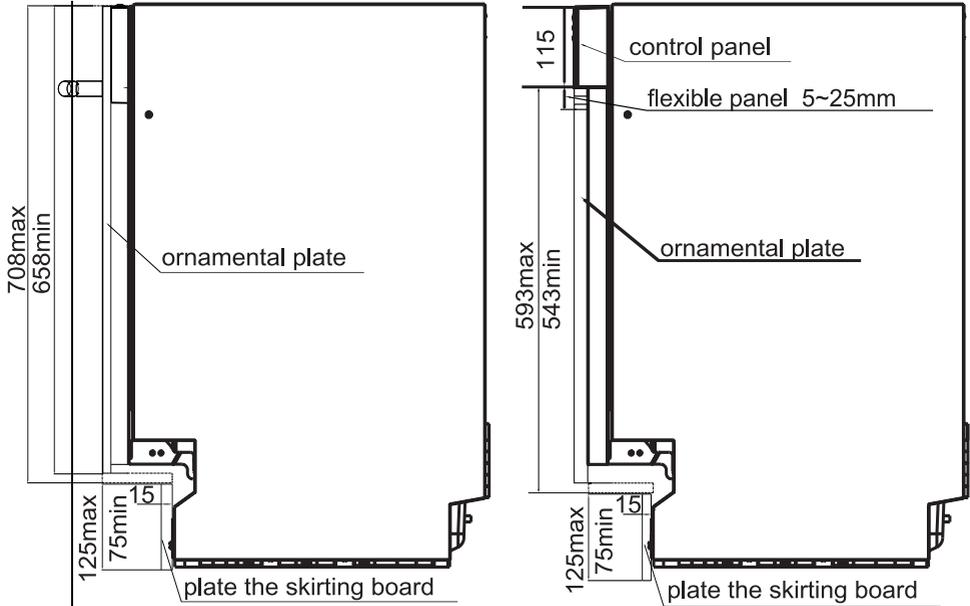


7

### Level Adjustment

Allowable slope under entire dishwasher is 2 degree. Adjust the height by turning the feet to make sure the dishwasher is level.





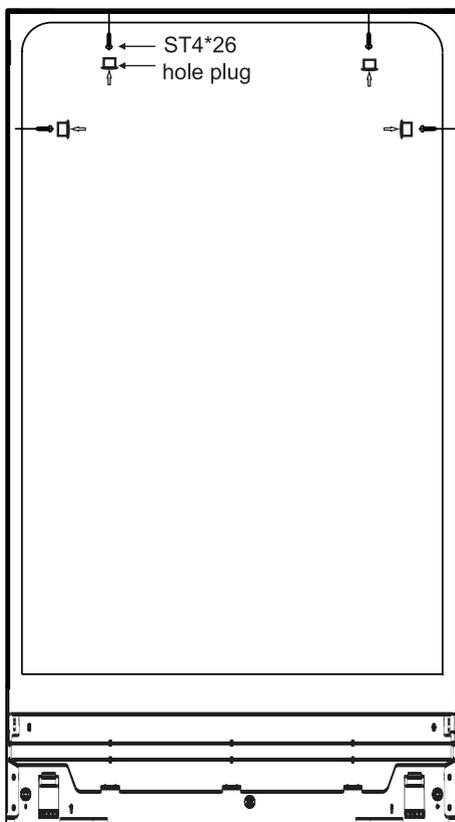
serial number	Referenced dimension (Fully built in)		Referenced dimension (Semi-built in)	
	ornamental plate	Plate to ornament the skirting board	Ornamental plate	Plate to ornament the skirting board
1	708 mm	75 mm	593 mm	75 mm
2	698 mm	85 mm	583 mm	85 mm
3	688 mm	95 mm	573 mm	95 mm
4	678 mm	105 mm	563 mm	105 mm
5	668 mm	115 mm	553 mm	115 mm
6	658 mm	125 mm	543 mm	125 mm



The required height of the skirting board is as per the principle of aesthetic and opening closing the door smoothly. Please check the suggested chart for the reference.

## Fixation of dishwasher

1. Fixing the dishwasher with the cabinet by turning the screws.
2. Plug the four hole plugs into the holes in the sketch map.



Dishwasher liner right and left side and the top 4 holes, use wood screws ST4\*26 dishwasher fixed on the cabinet (self-tapping screws were matching).



