



# DISHWASHER USER INSTRUCTIONS

GNU 41820 X  
GNU 41820  
GNU 41824 X  
GNU 41824

ENG

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FOR A GOOD REASON

**GRUNDIG**

# **DISHWASHER**

## **USER INSTRUCTIONS**

GNU 41820 X

GNU 41820

GNU 41824 X

GNU 41824

**ENG**

# Please read this user manual first!

Dear Customer,

Thank you for preferring a Grundig product. We hope that you get the best results from your product which has been manufactured with high quality and state-of-the-art technology. Therefore, please read this entire user manual and all other accompanying documents carefully before using the product and keep it as a reference for future use. If you handover the product to someone else, give the user manual as well. Follow all warnings and information in the user manual.

Remember that this user manual is also applicable for several other models. Differences between models will be identified in the manual.

## Explanation of symbols

Throughout this User Manual the following symbols are used:

	Important information or useful hints about usage.
	Warning for hazardous situations with regard to life and property.
	Warning for electric shock.
	Packaging materials of the product are manufactured from recyclable materials in accordance with our National Environment Regulations.

Do not dispose of the packaging materials together with the domestic or other wastes. Take them to the packaging material collection points designated by the local authorities.

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# 1 INSTRUCTIONS FOR SAFETY AND ENVIRONMENT

This section contains safety instructions that will help to get protected from risk of personal injury or property damage. Failure to follow these instructions shall void all warranties.

## General safety

- Never place the product on a carpet-covered floor; otherwise, lack of airflow beneath the product will cause electrical parts to overheat. This will cause problems with your product.
- Do not operate the product if the power cable / plug is damaged! Call the Authorised Service Agent.
- Connect the product to a grounded outlet protected by a fuse complying with the values in the "Technical specifications" table. Do not neglect to have the grounding installation made by a qualified electrician. Our company shall not be liable for any damages that will arise when the product is used without grounding in accordance with the local regulations.
- The water supply and draining hoses must be securely fastened and remain undamaged.
- Unplug the product when not in use.
- Never wash the product by spreading or pouring water onto it! There is the risk of electric shock!
- Never touch the plug with wet hands! Never unplug by pulling on the cable, always pull out by grabbing the plug.
- The product must be unplugged during installation, maintenance, cleaning and repairing procedures.
- Always have the installation and repairing procedures carried out by the Authorised Service Agent. Manufacturer shall not be held liable for damages that may arise from procedures carried out by unauthorised persons.
- Never use chemical solvents in the product. They bring forth the risk of explosion.
- When you pull the upper and lower baskets out completely, the door of the product will bear all the weight of the baskets. Do not put other loads on the door; otherwise, the product may tilt.
- Never leave the door of the product open apart from loading and unloading procedures.
- Do not to open the door of the product when it is running unless necessary. Be careful for the rush of hot vapour when you need to open the door.

## Intended use

- This product has been designed for domestic use.
- It must be used to do the domestic type dishes only.

- This appliance is intended to be used in household and similar applications such as:
  - Staff kitchen areas in shops, offices and other working environments;
  - Farm houses;
  - By clients in hotels, motels and other residential type environments;
  - Bed and breakfast type environments
- Only dishwasher safe detergents, rinse aids and additives must be used.
- The manufacturer waives any responsibility arisen from incorrect usage or transportation.
- The service life of your product is 10 years. During this period, original spare parts will be available to operate the product properly.
- 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.

## Children's safety

- Electrical products are dangerous for the children. Keep children away from the product when it is in use. Do not let them to tamper with the product.
- Do not forget to close the door of the product when leaving the room where it is located.
- Store all detergents and additives in a safe place away from the reach of the children.

## Disposing of packaging material

Packaging materials are dangerous to children. Keep packaging materials in a safe place away from reach of the children.

Packaging materials of the product are manufactured from recyclable materials. Dispose of them properly and sort in accordance with recycled waste instructions. Do not dispose of them with normal domestic waste.


## Transportation of the product



If you need to move the product, do it in upright position and hold from the rear side. Slanting the product onto its front side may cause the electronic parts in it get wet and damaged.

1. Unplug the product before transporting it.
2. Remove water drainage and water supply connections.
3. Drain the remaining water in the product completely.

## Compliance with WEEE Directive and Disposing of the Waste Product

 This product complies with EU WEEE Directive (2012/19/EU). This product bears a classification symbol for waste electrical and electronic equipment (WEEE). This product has been manufactured with high quality parts and materials which can be reused and are suitable for recycling. Do not dispose of the waste product with normal domestic and other wastes at the end of its service life. Take it to the collection center for the recycling of electrical and electronic equipment. Please consult your local authorities to learn about these collection centers.

## Compliance with RoHS Directive

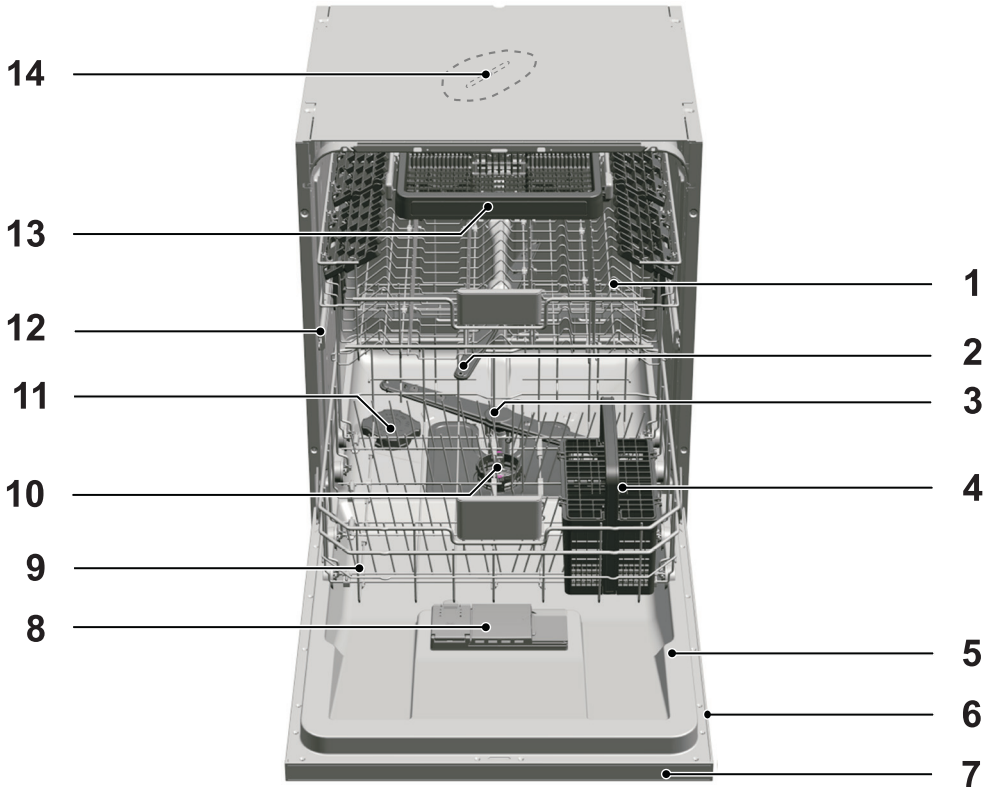
The product you have purchased complies with EU RoHS Directive (2011/65/EU). It does not contain harmful and prohibited materials specified in the Directive.

## Package information

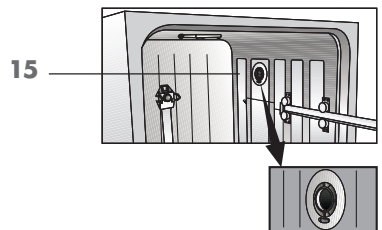
Packaging materials of the product are manufactured from recyclable materials in accordance with our National Environment Regulations. Do not dispose of the packaging materials together with the domestic or other wastes. Take them to the packaging material collection points designated by the local authorities.

## 2 DISHWASHER

### Overview



1. Upper basket
2. Upper impeller
3. Lower impeller
4. Silverware basket
5. Door
6. Rating Label
7. Control panel
8. Detergent dispenser
9. Lower basket
10. Filters
11. Salt reservoir lid
12. Upper basket rail
13. Upper cutlery basket
14. Ceiling impeller
15. Fan drying system (depends on model)



## Technical specifications

### **CE** Compliance to standards and test data / EC declaration of conformity

This product complies with the following EU directives;  
Development, production and sales stages of this product comply with the safety rules included in all pertaining European Community regulations.

2014/35/EU, 2014/30/EU, 93/68/EC, IEC 60436/DIN 44990, EN 50242

Power input	220-240 V, 50 Hz (see rating label)
Total power consumption	1800-2100 W (see rating label)
Heater power consumption	1800 W (see rating label)
Total current (depends on the model)	10 A (see rating label)
Drain pump power consumption	30 W (see rating label)
Water pressure	0.3 - 10 bar (= 3 - 100 N/cm <sup>2</sup> = 0.01-1.0 Mpa)



Technical specifications may be changed without prior notice to improve the quality of the product.



Figures in this manual are schematic and may not match the product exactly.



Values stated on the markings of the product or in the printed documents accompanying the product are obtained in the laboratory on basis of the relevant standards. Depending on operational and environmental conditions of the product, these values may vary.

## Fan drying system

Fan drying system ensures efficient drying of your dishes.

It is normal to hear a different sound than that of washing cycle during fan operation.

### Note for test institutions:

Data required for performance tests shall be provided upon request. Requests can be e-mailed to the following address:

**dishwasher@standardloading.com**

Do not forget to provide the code, stock and serial numbers of the product to be tested in your request e-mail along with your contact information. Code, stock and serial numbers of the product may be found on the type label attached to the side wall of the door.

### 3 INSTALLATION

Refer to the nearest Authorised Service Agent for installation of your product. To make the product ready for use, make sure that the electricity, tap water supply and water drainage systems are appropriate before calling the Authorised Service Agent. If they are not, call a qualified technician and plumber to have any necessary arrangements carried out.



Preparation of the location and electrical, tap water and waste water installations at the place of installation is under customer's responsibility.



Installation and electrical connections must be carried out by the Authorised Service Agent. Manufacturer shall not be held responsible for damages arising from processes carried out by unauthorised persons.



Prior to installation, visually check if the product has any defects on it. If so, do not have it installed. Damaged products cause risks for your safety.



Make sure that the water inlet and discharge hoses are not folded, pinched or crushed while pushing the product into its place after installation or cleaning procedures.

When placing the product, pay attention not to damage the floor, walls, piping, etc. Do not hold the product from its door or panel to move it.

#### Appropriate installation location

- Place the product on a solid and flat floor that has sufficient load carrying

capacity! The product must be installed on a flat surface in order for the door to be closed comfortably and securely.

- Do not install the product at places where temperature may fall below 0°C.
- Place the product at least 1 cm away from the edges of other furniture.
- Place the product on a rigid floor. Do not place it on a long pile rug or similar surfaces.



Do not place the product on the power cable.

- Make sure that you select a location that will allow you to load and unload the dishes in a fast and comfortable manner.
- Install the product in a place close to the tap and the drain hole. Select the installation location by considering that it will not be changed after the connections are made.

#### Connecting water supply




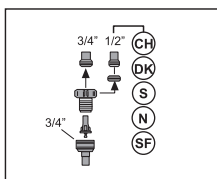
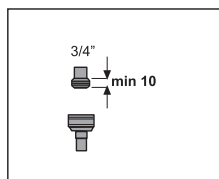
We recommend attaching a filter on the house/apartment supply water inlet to protect the machine from damages that may arise from impurities (sand, dirt, rust, etc.) coming from the urban water supply system or from your own water system as well as to prevent complaints such as yellowing or sludge accumulation at the end of washing.


#### Permitted water temperature: up to 25 °C

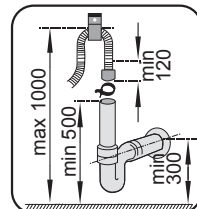
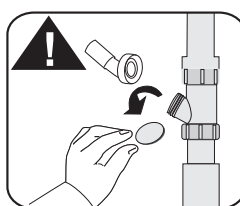
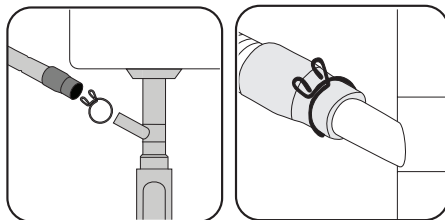
The dishwasher may not be connected to open warm water devices or flow-through water heaters.


- Do not use old or used water inlet hose on the new product. Use the new water inlet hose supplied with the product.
- Connect the water inlet hose directly to the water tap. Pressure coming from the tap should be minimum 0.3 and maximum 10 bars. If the water pressure exceeds 10 bars, a pressure relief valve should be installed in between.
- Open the taps completely after making the connections to check for water leaks.

 Use a screw-on hose connector to connect the water inlet hose to a water tap with a 3/4 inch external thread. If required, use a filter insert to filter deposits from the pipes.



 For your safety, close the water inlet tap completely after the washing programme is over.



 Drainpipe must be connected to the sewage system and it should not be connected to any surface water.

### Adjusting the feet

If the door of the product cannot be closed properly or if the product swings when you push it slightly, then you need to adjust the feet of the product. Adjust the feet of the product as illustrated in the installation manual supplied with the product.

### Connection to the drain

Water discharge hose can directly be connected to the drain hole or sink's drainage. The length of this connection must be min. 50 cm and max. 100 cm from the floor. A discharge hose longer than 4 meters causes dirty washing.

Attach the water discharge hose to the drainpipe without bending it. Tightly fix the water discharge hose to the drainpipe in order to prevent any dislocation of the water discharge hose during operation of the product.

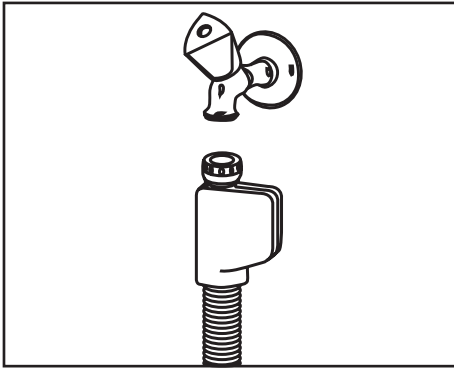


## WaterProtect+

The WaterProtect+ system protects against water leaks that may occur at the hose inlet. Water contact with the valve box of the system must be avoided to prevent damage to the electrical system. If the WaterProtect+ system is damaged, unplug the product and call the Authorised Service Agent.



As the hose set contains electrical connections and assemblies, never shorten or lengthen the hose with extension hoses.



- The voltage and allowed fuse or breaker protection are specified in the "Technical specifications" section. If the current value of the fuse or breaker in the house is less than 16 Amps, have a qualified electrician install a 16 Amp fuse.
- The specified voltage must be equal to your mains voltage.
- Do not make connections via extension cables or multi-plugs.



Damaged power cables must be replaced by the Authorised Service Agent.



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



If the product has a failure, it should not be operated unless it is repaired by the Authorised Service Agent! There is the risk of electric shock!

## Electrical connection

Connect the product to a grounded outlet protected by a fuse complying with the values in the "Technical specifications" table. Our company shall not be liable for any damages that will arise when the product is used without grounding in accordance with the local regulations.

- Connection must comply with national regulations.
- Power cable plug must be within easy reach after installation.



Unplug the product after the washing programme is over.

## Initial use

Before starting to use the product, make sure that all preparations are made in accordance with the instructions in sections "Important safety instructions" and "Installation".

- To prepare the product to do the dishes, perform first operation in the shortest programme with detergent while the machine is empty. During the initial use, fill the salt reservoir with 1 litre of water prior to filling it with salt.



There might be a small amount of water left in the product after factory quality control tests. This has no harm on the product.

## 4 PREPARATION

### Tips for energy saving

Following information will help you use the product in an ecological and energy-efficient manner.

Wipe away any coarse food remnants on the dishes before putting them in the product. Operate the product after filling it completely.

When selecting a programme, consider the table of "Programme data and average consumption values".

Do not put more detergent than suggested on the detergent package.

### Water softening system



Your dishwasher requires soft water. If the hardness of the water is above 6 °dH, the water must be softened and descaled. Otherwise, ions that create the hardness will accumulate on the surfaces of the dishes and may adversely affect the washing, shining and drying performances of the product.

The product is equipped with a water softening system which reduces the hardness of incoming water. This system softens the supply water that enters into the product to a level that will allow washing the dishes with the required quality.




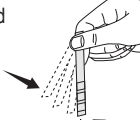

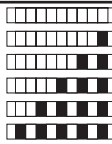
### Adjusting the water softening system

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.







## Preparation

<p><b>a</b></p>  <p>Remove the test strip from the packet.</p>	<p><b>b</b> 1 min.</p>  <p>Turn on the tap and let the water run for about a minute.</p>	<p><b>c</b> 1 Second</p>  <p>Hold the test strip in the water for about a second.</p>	<p><b>d</b></p>  <p>Remove the test strip from the water and shake it.</p>	<p><b>e</b> 1 Minute</p>  <p>Wait for 1 minute.</p>	<p><b>f</b></p>  <p>The test strip shows you the hardness level.</p>
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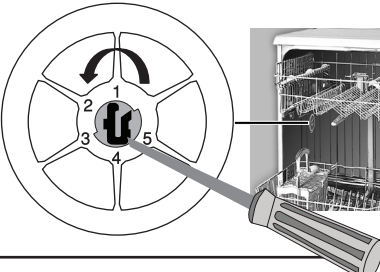

















After determining hardness level of the supply water:

1. Turn on the machine by pressing On / Off key while pressing and holding the Programme Selection key when the machine is in off position. Release the Programme Selection key when the water hardness level stored on the machine is displayed in "r....." format.
2. By using Programme Selection key, adjust water hardness level according to the hardness of the supply water. See "Water hardness level adjustment table" for correct setting.
3. Press Start / Pause / Cancel key to save the setting. Start / Pause indicator will light continuously.
4. Press On / Off key to turn off the machine.

### Water Hardness Level Adjustment Table

Hardness Level	English Water Hardness °dE	German Water Hardness °dH	French Water Hardness °dF	Water Hardness Level Indicator
0th Level 	5-0	4-0	8-0	Press the Programme Selection button to set the water hardness level to position 1..(r1)
1st Level 	9-6	7-5	13-9	Press the Programme Selection button to set the water hardness level to position 2..(r2)
2nd Level 	15-10	12-8	22-14	Press the Programme Selection button to set the water hardness level to position 3..(r3)
3rd Level 	19-16	15-13	27-23	Press the Programme Selection button to set the water hardness level to position 4..(r4)
4th Level 	24-20	19-16	34-28	Press the Programme Selection button to set the water hardness level to position 5..(r5)
5th Level 	62-25	50-20	90-35	

Perform the same hardness level adjustment that you have set on the control panel also with the regeneration adjustment switch. For example, if you have adjusted to "3rd level" in the control panel, also set the regeneration adjustment switch to 3rd level.

Regeneration Adjustment Switch	0th Level	1st Level	2nd Level	3rd Level	4th Level	5th Level
						
	1	1	2	3	4	5
						
						

## Preparation

If the hardness level of the supply water is above 90 °dF 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 13 °dF, 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 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.

### Adding salt

Water softening system needs to be regenerated in order for the product operates 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.

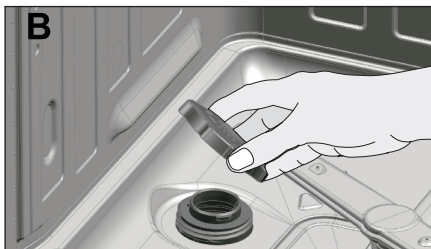
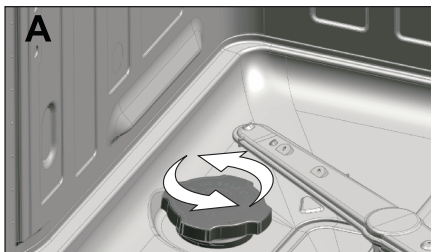


We recommend using granular or powder softening salts. Do not use salts that are insoluble in water such as table salt or common salt. Performance of water softening system may get worse in time.



Salt reservoir will fill with water when you start the product. Therefore, add the softening salt before starting the machine.

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



Salt reservoir will fill with water when you start the product. Therefore, add the softening salt before starting the machine.



Before initial use, fill the water softening system with 1 litre of water (C).



## Preparation

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



You can put about 2 kg of softening salt into the salt reservoir.

4. Replace the lid and tighten it securely when the reservoir is full.
5. If you will not start a washing programme immediately after adding the salt, run the machine empty in the shortest programme to dissolve and wash away the scattered salt in the machine.



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.

## Detergent

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



Only use in the detergents produced particularly for use with dishwashers. Never use washing up liquids. We recommend you not to use detergents that contain chlorine and phosphate as they are harmful for the environment.

## Adding detergent



You can find the correct amount of detergent for the selected programme in the table of "Programme data and average consumption values".



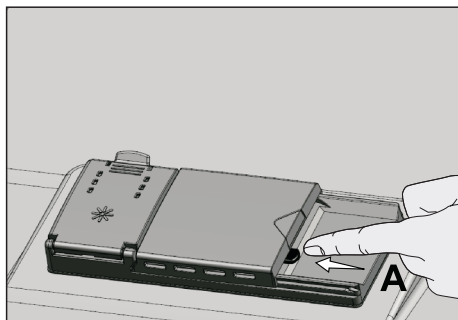
In order to have good washing and drying results, always follow the instructions on the detergent packaging. If you have further questions, we recommend to contact with the producer of the detergent.



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

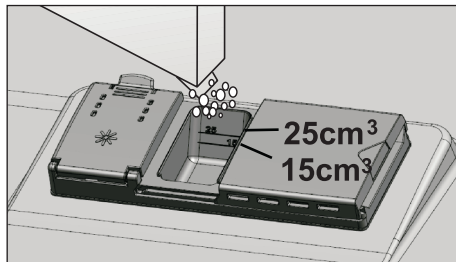
Put the detergent into the detergent dispenser just before operating the machine as illustrated below.

1. Press the latch in the direction of arrow to open the detergent dispenser lid (A).



## Preparation

- Put suggested amount of powder, liquid/gel or tablet detergent in the dispenser.

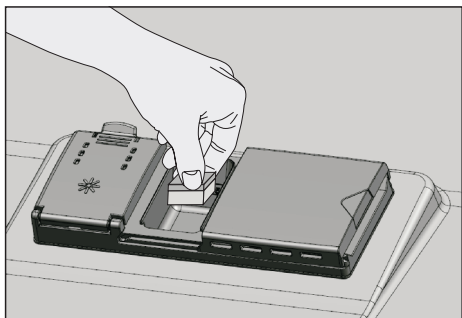


Inside the detergent dispenser there are level markings that help you use appropriate amount of powder detergent. When brimful, detergent dispenser will contain 40 cm<sup>3</sup> of detergent. Fill detergent up to 15 cm<sup>3</sup> or 25 cm<sup>3</sup> level marks in the detergent dispenser according to fullness of the machine and/or soiling degree of the dishes.

- Close the detergent dispenser lid by pressing on it lightly. A "click" will be heard when the lid is closed.



In programmes with pre-washing and high temperature, in which you may use tablet detergents, make sure that the detergent dispenser lid is closed firmly.



Use powder detergent in short programmes without prewash since the solubility of the tablet detergent changes depending on the temperature and time.



Excessive usage of powder detergents will cause the detergent not dissolve completely and will also cause scratches on the glassware.

## Combined tablet detergents

Combined tablet detergents exhibit water softening and / or rinse aid effect in addition to detergent effect. Some types of these detergents also contain special-purpose washing chemicals such as glass and stainless steel protectors.



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

Combined tablet detergents are available as 3in1, 5in1, Allin1 etc. They function only up to a specific degree of water hardness. Above this limit regeneration salt and rinse aid must be added. Refer to the instructions on the packaging of the combined detergent whether it is suitable for the hardness level of the water supply.



While using combined tablet detergents, contact with the detergent producers if your dishes are wet and/or if you notice limescale spots particularly on your glasses after the washing programme is over.

### When you switch to powder, liquid/ gel or tablet detergent from a combined tablet detergent:

1. Make sure that salt 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.



Depending on the model, salt indicator and/or rinse aid indicator should be enabled again if they are disabled before.

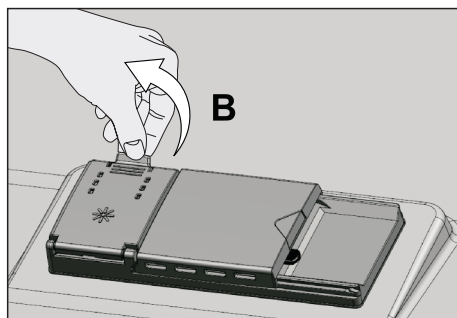
### Rinse aid



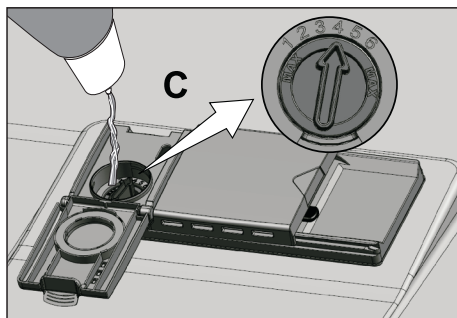
The rinse aid used in dishwashers is a special combination that aims to increase drying efficiency and prevent water or lime stains on the washed items. For this reason, care must be paid to have rinse aid in the rinse aid reservoir and to use rinse aids produced specially for dishwashers only.

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 warning indicator appears on the display of your machine.

1. Open the lid of the rinse aid reservoir by pulling the latch in the direction of the arrow (B).



2. Fill the reservoir until "MAX" level.
3. Turn the rinse aid amount adjuster manually to a position between 1 and 6 (C). If there are stains on tableware 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 4 as factory default.



4. Close the lid of the reservoir by pressing on it lightly.



After making sure that the lid is closed, wipe clean any spilled rinse aid outside the reservoir. Rinse aid that spilled accidentally will cause foaming and it will eventually decrease washing performance.



## Items not suitable for washing in the dishwasher

- Never wash dishes soiled by cigarette ash, candle remnants, polish, dyestuff, chemicals, etc. in your dishwasher.
- Do not wash iron alloy items in the dishwasher. It can get corroded or leave stains on other items.
- Do not wash silverware and cutlery with wooden or bone stems, glued pieces, or pieces that are not resistant to heat, as well as copper and tin-plated containers in the dishwasher.



Decorative prints of chinaware as well as aluminum and silver items may get discoloured or tarnished after washing in the dishwasher just as it happens in handwashing as well. Some delicate glass types and crystals may become dull in time. We strongly recommend you to check if the tableware you are going to purchase is suitable for washing especially in the dishwasher.

and bigger items in the lower basket and smaller, delicate and light items in the upper basket.

- Place the hollowed dishes such as bowls, glasses and pans upside down in the dishwasher. Thus, accumulation of water in deep hollows is prevented.



To prevent possible injuries, always place the sharp and pointed dishes such as service fork, bread knife, etc. upside down so as their pointed ends will face down or they will lie horizontally in the dish basket.

Unload dishes in the lower basket first and then the dishes in the upper basket.

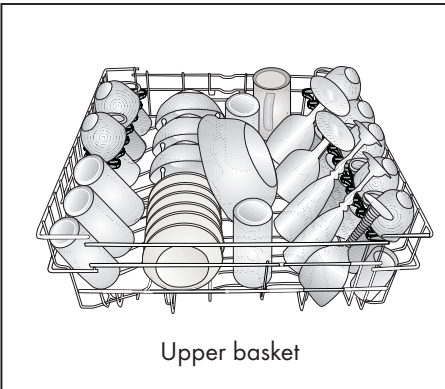
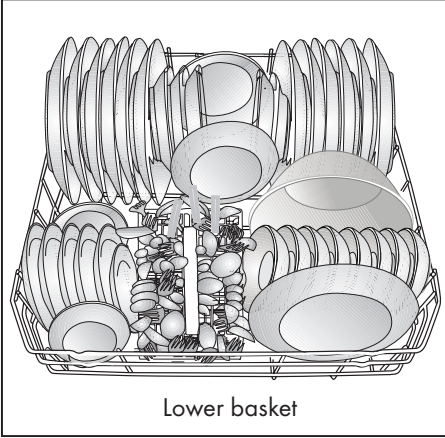
## Placing the dishes into the dishwasher

You can use your dishwasher in the optimum way with respect to energy consumption and washing and drying performance only if you place the dishes in an orderly way.

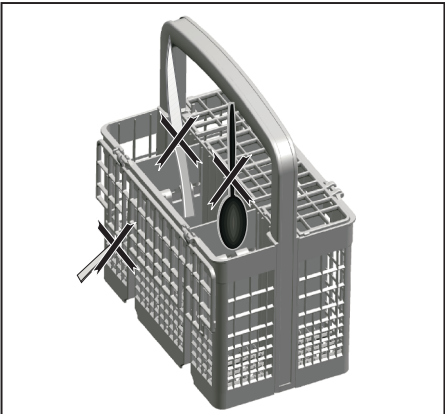
- Wipe away any coarse food remnants (bones, seeds, etc.) on the dishes before placing them in the dishwasher.
- Place thin, narrow pieces in the middle sections of baskets if possible.
- There are two separate baskets in which you can place your dishes in the dishwasher. Place the heavily soiled

# Preparation

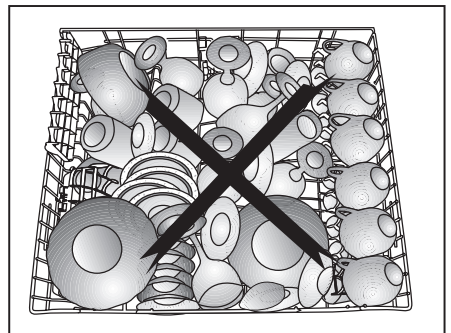
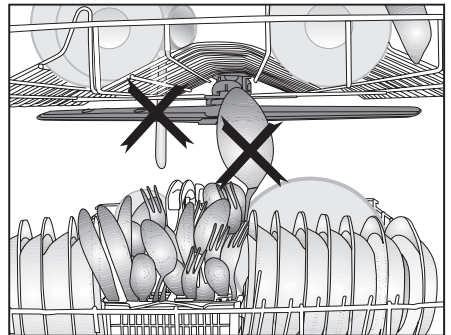
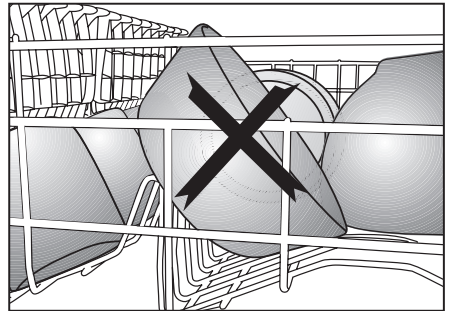
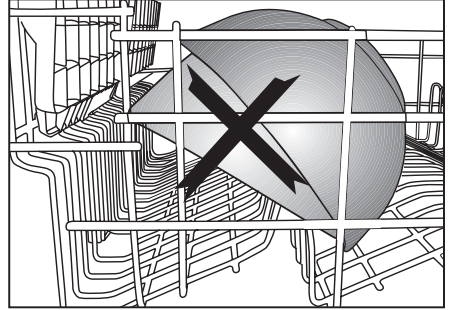
## Suggestions for loading the dishwasher



## Improper Loading Of Dishware



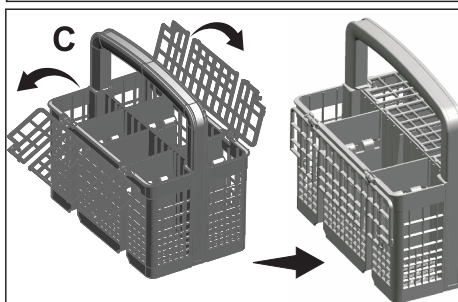
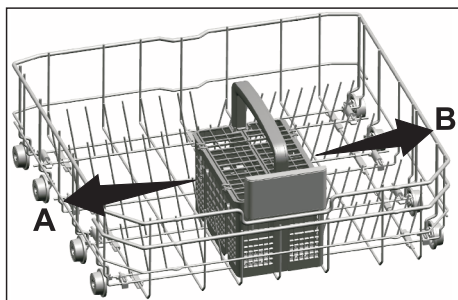
## Improper Loading Of Dishware



### Cutlery basket

Cutlery basket is designed to wash your dishes such as knife, fork, spoon, etc. in an efficient manner.

Since the cutlery 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.



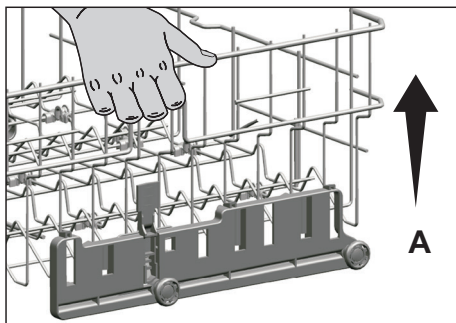
### Adjusting the height of the upper basket

Basket adjustment mechanism on the loaded upper basket of the machine is designed to allow you create taller areas in the upper or lower section of the machine based on your requirements by adjusting the height of the loaded basket in up or down directions.

To raise the basket:

Grab one of the upper basket wires (right or left) and lift it up (A).

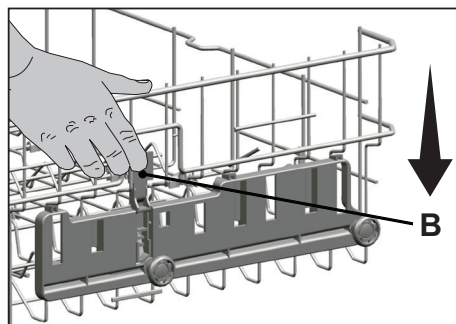
Repeat the same process to raise the other side of the basket.



Make sure that both sides of the loaded basket height adjustment mechanism are at the same level (down or up).

To lower the basket:

Press the latch on the loaded basket adjustment mechanism (right and left) to lower the basket (B).



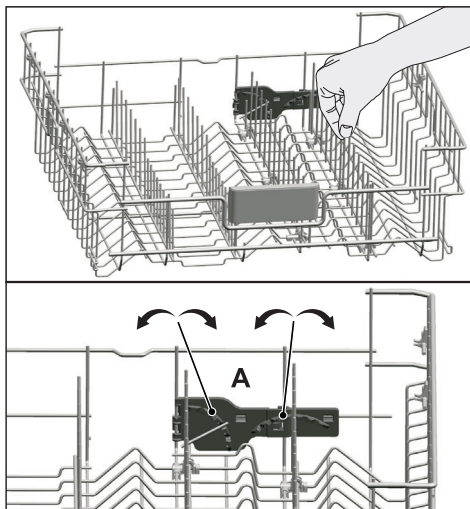
Repeat the same process to lower the other side of the basket.

Make sure that both sides of the loaded basket height adjustment mechanism are at the same level (down or up).

## Collapsible upper basket tines

Upper basket of the machine is equipped with tines with gradual folding system (A) that you can lay down when you need a larger space for large dishes.

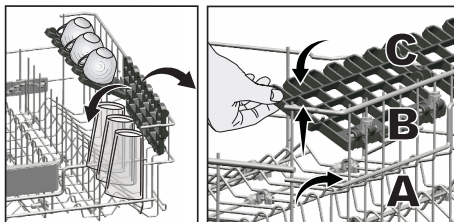
To bring the collapsible tines into horizontal position, grab the tines from mid position and push them in the directions of arrows. Place your larger dishes into the area created. To bring the tines back to vertical position, just lift them up. Collapsible tines will click into the latch again.



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.

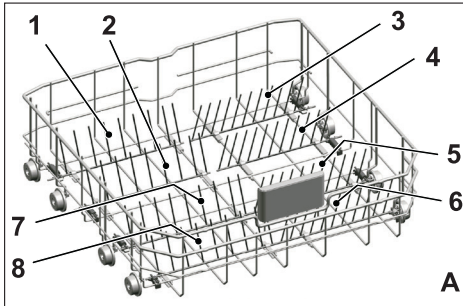
## Upper basket height adjustable rack

Use the lower and upper parts of the height adjustable racks in the upper basket of the machine by sliding them down or up according to the heights of the glasses, cups or etc. (A, B, C).

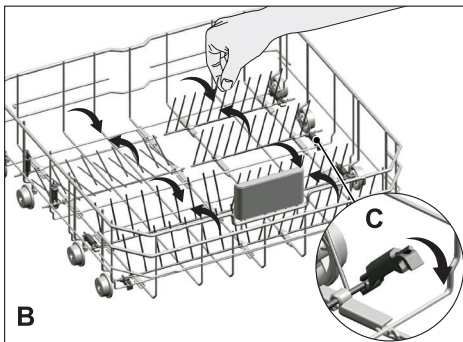


### Collapsible lower basket tines

There are foldable tines (A) located at the lower basket of the machine 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.



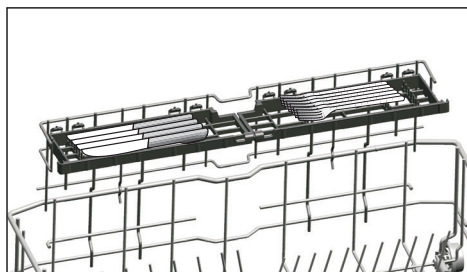
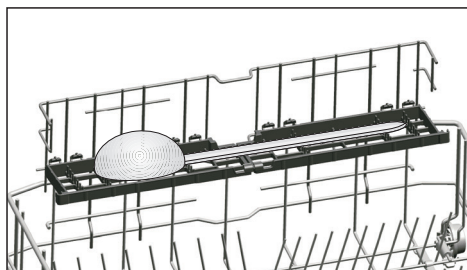
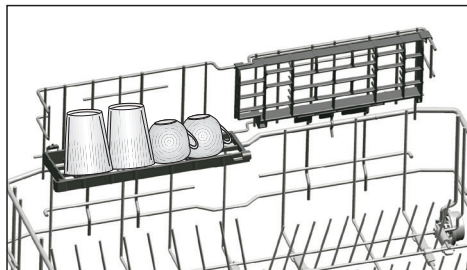
To bring the collapsible tines into horizontal position, grab the tines from mid position and push them in the directions of arrows (B). To bring the tines back to vertical position, just lift them up. Collapsible tines will click into the latch again (C).



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.

## Lower basket multipurpose / height adjustable service rack

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



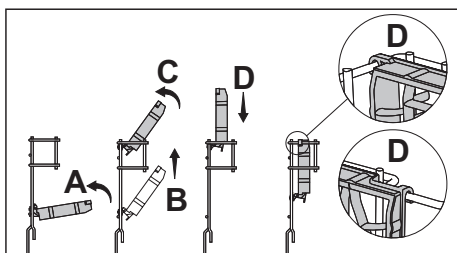
You may use the racks as required by moving them to lower or upper position, or close them to create a wider space in your lower basket.



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

To close the racks:

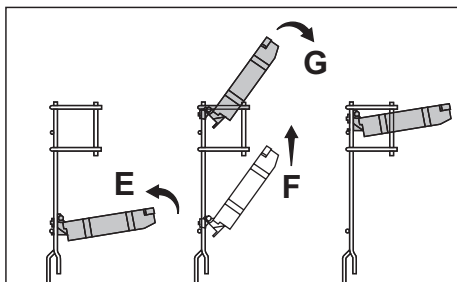
1. Fold the rack (A).
2. Slide the rack up (B).
3. Put the rack in vertical position (C).
4. Slide the rack down and lock it by the tabs (D).



You may open the racks in the same process in reverse order.

To adjust the height of the racks:

1. Fold the rack (E).
2. Slide the rack up (F).
3. Open the rack at the desired level (G).



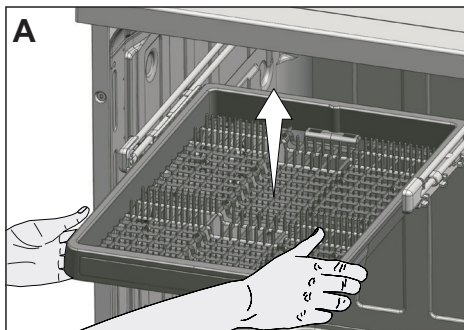


## Upper cutlery basket

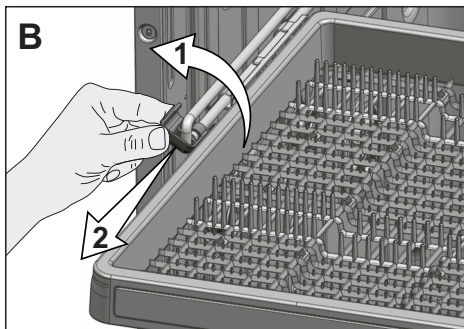
The upper cutlery basket is designed for small dishes, or long items that cannot fit into the lower cutlery basket.



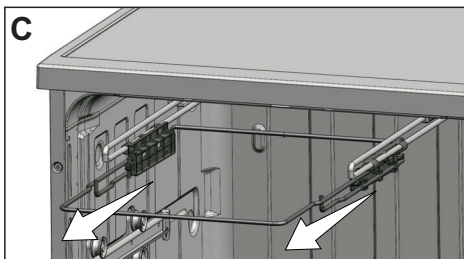
Thanks to the easy take-out-from-the-machine feature, it allows taking out the dishes from the machine together with the basket after they are washed (A). Since it can fit into all standard size drawers, it does not require the dishes to be removed from the basket and placed into the kitchen drawers or shelves.



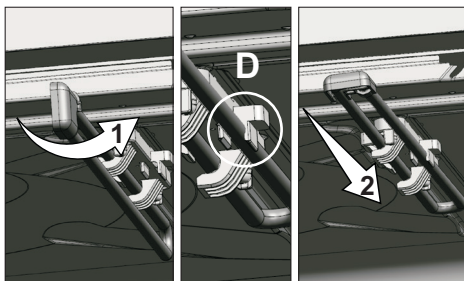
If you don't want to use the upper cutlery basket, pull it back to yourself to remove it from the machine, rotate the rail lids towards outside and pull them towards yourself to take them out (B).



After taking out the basket by lifting it up, remove the carrier part from the rails by pulling it towards yourself (C).



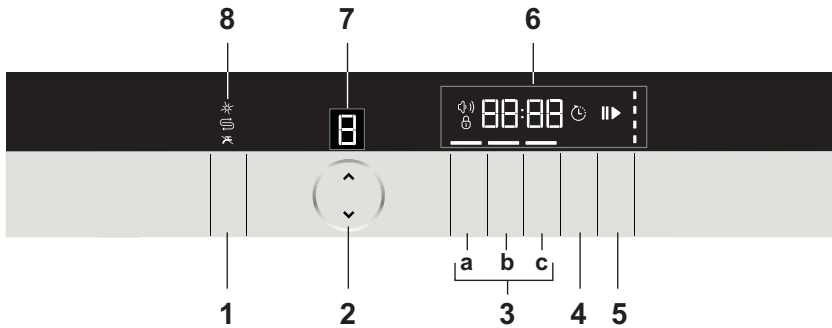
Replace the rail lids and push them back to seat them into their places. Turn the rails inside the machine sideways to seat them properly in their places (D).



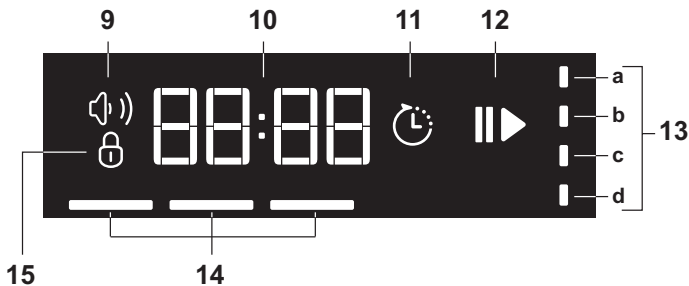
In order to replace the upper cutlery basket into its place again, repeat the same process in reverse order.



## 5 OPERATING THE PRODUCT



1. On / Off key
2. Programme Selection keys
3. Function keys
  - a) Child Lock key/ Tablet detergent function
  - b) Volume Adjustment key/ Half Load Function
  - c) Express Function
4. Time Delay key
5. Start / Pause / Cancel key
6. Display
7. Programme indicator
8. Rinse Aid (\*) / Salt (S) / Water Cut-off (A) Warning indicators



9. Volume Level indicator
10. Display Information line
11. Time Delay indicator
12. Start (▶)/ Pause (||) indicator
13. Programme Steps Follow-up indicators
  - a) Washing Step indicator
  - b) Rinsing Step indicator
  - c) Drying Step indicator
  - d) End of Programme indicator
14. Function Selected indicator
15. Child Lock indicator

### Keys

#### On / Off key

It is used to turn on or off the machine. Press the On / Off key for 1 second to turn on. Buzzer will go off and machine will turn on at the end of 1 second. Press the On / Off key for 1 second to turn off. Buzzer will go off and machine will turn off at the end of 1 second. To turn off while the programme is running, keep Off key pressed for 3 seconds. A countdown in the form of "3", "2", "1" will appear on the display. Machine will turn off with the end melody at the end of 3 seconds. Machine will turn on with economy programme in On mode and the number of the economy programme will appear on the programme indicator.

#### Start / Pause / Cancel key

It is used to start, pause or cancel the selected programme or function.

#### Programme Selection keys

They are used to select the washing programme you determined from the table of "Programme data and average consumption values". Use up arrow to switch to the next programme, and down arrow to switch to the previous one. It returns to beginning or to end after the first and last programs.

#### Function keys

Using auxiliary functions enable you to save time, water and energy and to perform a more comfortable washing with conditions specific to you.



Same function keys are used for Child (Key) Lock and Volume Level Setting.

#### Time Delay key

It should be pressed to make the time delay settings.

### Preparing the machine

1. Open the tap.
2. Plug in to the socket.
3. Open the door of the dishwasher.
4. Place the dishes in accordance with the instructions in the user manual.
5. Make sure that the upper and lower impellers rotate freely.
6. Put adequate amount of detergent into the detergent dispenser.
7. Check if the Salt and Rinse Aid indicators light and add salt and/or rinse aid if needed.
8. Close the door of the dishwasher.

### Programme selection

1. Press On / Off key to turn on your machine.
2. Refer to the table of "Programme data and average consumption values" to determine a washing programme suitable for your dishes.
3. Press Programme Selection keys until the number of the programme you selected appears on the Programme indicator. Use up arrow to switch to the next programme, and down arrow to switch to the previous one.

## Table of Programme Data and Average Consumption Values

Programme No	1 Reference *	2	3	4	5	6	7	8
<b>Programme Name</b>	Eco 50 °C <b>ECO</b> 50 °C	Auto 40 °C-65 °C <b>auto</b> 40-65 °C	Prewash 	Mini 30' 	GlassCare 	QuickWash 58' 	Intensive 70 °C 	All-in-Wash <b>Allin</b> <b>Allwash</b>
<b>Washing Temperature</b>	50 °C	40 °C-65 °C	-	35 °C	40 °C	60 °C	70 °C	70 °C
<b>Programme Information</b>	It is suitable for normally soiled left daily dishes in the most economical way.	It determines the soiling degree of the dishes and sets the temperature and amount of the washing water as well as the washing time automatically. It is suitable for all dish types.	It is suitable to remove the rough remnants on the dishes to be left in the dishwasher. It also prevents odor formation inside the machine.	It is suitable for quickly washing the lightly soiled dishes that have undergone precleaning process.	It is suitable for dishes that are not precleaned and to be washed immediately.	It is the daily washing programme to wash the normally soiled left dishes in the fastest way.	It is suitable for heavily soiled pans and trays.	It is the most suitable washing programme for daily mixed dishes. While delicate glass items are washed in the upper basket, pans and trays can be washed in the lower basket.
<b>Degree of Soiling</b>	Mediocre	Mediocre-High	-	Low	Low	Mediocre	High	Mediocre
<b>Detergent Amount</b> A=25 cm <sup>3</sup> /15 cm <sup>3</sup> B=5 cm <sup>3</sup>	A+B	A	Do not use detergent	A **	A	A+B	A+B	A+B
<b>Programme Flow</b>	Prewash ▼ Wash ▼ Cold Rinse ▼ Hot Rinse ▼ Drying ▼ End	Determines the soiling degree of the dishes and sets the temperature and amount of the washing water as well as the washing time automatically.	Prewash ▼ End	Wash ▼ Cold Rinse ▼ Hot Rinse ▼ End	Prewash ▼ Wash ▼ Cold Rinse ▼ Hot Rinse ▼ Drying ▼ End	Wash ▼ Cold Rinse ▼ Hot Rinse ▼ Drying ▼ End	Prewash ▼ Wash ▼ Cold Rinse ▼ Hot Rinse ▼ Drying ▼ End	Prewash ▼ Wash ▼ Cold Rinse ▼ Drying ▼ Hot Rinse ▼ Drying ▼ End
<b>Programme Time (minutes)</b>	189	108-170	15	30	83	58	143	177
<b>Water Consumption (liters)</b>	10	10,2-14,2	4	10,4	13,4	10,2	16,2	18,6
<b>Power Consumption (kW hour)</b>	0,92	0,90-1,45	-	0,8	0,88	1,32	1,26	1,36

Consumption values given in the table are values measured under standard conditions. For this reason, there may be differences in daily usages.  
 \* Reference programme for test institutes. Tests conducted in accordance with EN 50242 standard must be made with filled water softener, salt container and rinse aid reservoir in the reference programme.  
 \*\* Powder detergent must be used only.

### Auxiliary functions

Washing programmes 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 are provided in order to enable you to save time, water and energy and to perform a more comfortable washing with conditions specific to you.



Auxiliary functions may cause changes in the programme duration.



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

### To add auxiliary function to the programme:

1. Select the desired washing programme by pressing the programme selection key.
2. In the selected washing programme, if auxiliary function is selected, its symbol will be displayed on the screen. If the function key is pressed again, the symbol will disappear and selection is cancelled.

### Express Function

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

### 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.



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.



Tablet Detergent function may cause change in the programme duration.

### Half Load function

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

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



With the Half Load function you can save both water and power while using the lower and upper baskets of the machine.

### Programming 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 programme up to 24 hours. Time Delay cannot be set after the programme starts.

1. Press the Time Delay function key after selecting the washing programme and other auxiliary functions.
2. Once you press the Time Delay key, Display Information Line will show "0:00" and Time Delay indicator will start flashing.
3. Press Time Delay key to set the time you wish. 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. Press Start / Pause / Cancel key to start countdown for the Time Delay. Time Delay indicator and Start / Pause indicator will light continuously until the end of the period. Time Delay is displayed on the Display Information Line. Selected programme will start as soon as the countdown is over.

#### Changing the settings while Time Delay function is enabled.

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



Programme and auxiliary functions cannot be set/changed after the programme has started.

#### To cancel the Time Delay function

1. Press and hold Start / Pause / Cancel key for 3 seconds.
2. When the Start / Pause / Cancel key is pressed and held, "3", "2", "1" appear on the Display Information Line. Time Delay indicator will go off at the end of the cancellation process and delaying process is cancelled.



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



Time Delay function cannot be set after the programme starts.

#### Starting the programme

To start your machine after selecting the programme and auxiliary functions, press Start / Pause / Cancel key.

Once the programme starts a tune is played and the estimated time remained to the end of the programme will appear on the Display Information Line. Start / Pause / Cancel indicator starts lighting continuously.



Your machine performs water softening depending on the hardness level of the supply water. Remaining time displayed towards the end in some programmes can be different from the time indicated at the beginning due to this process. The total time can also change while the programme 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. Stop the machine by pressing Start / Pause / Cancel key if you have to open the door. Then, open the door of the machine. There may be a rush of vapour when you open the door of your machine; be careful. Close the door of your machine and press Start / Pause / Cancel key again. Programme will resume running.



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

### Programme follow-up

You can follow-up the washing step in which the current programme is in from the Programme Steps Follow-up indicator on the display.



a) Washing Step indicator

b) Rinsing Step indicator

c) Drying Step indicator

d) End of Programme indicator

Indicators for Washing / Rinsing / Drying will light respectively on the display throughout the washing programme.

Indicator of a finished step will not go off, but they will light by adding on each other.

When the programme is over, indicators of washing steps go off and only the End of Programme indicator lights.



None of the Programme Steps Follow-up indicators will light while the Time Delay is enabled.

### Child (Key) Lock

You may prevent other people from interrupting and changing the programme cycle and time delay while the machine is running.

#### To activate the child lock:

1. Press and hold the Child (Key) Lock key for three seconds.
2. Display Information Line will show "CL 3", "CL 2", "CL 1" and "CL On".



Child Lock prevents the selected programme or functions from being changed and disables the Start / Pause / Cancel key.



Child Lock does not lock the door of the machine.



If you turn your machine off by using On/Off key at the end of the programme, the Child Lock will be deactivated automatically.



If no key is pressed after the programme is over, machine will be automatically turned off after 5 minutes. Child Lock is disabled once the machine is turned off.

#### To deactivate the Child Lock:

1. Press and hold the Child (Key) Lock key for 3 seconds.

2. Display Information Line will show "CL 3", "CL 2", "CL 1" and "CL On".

### Canceling a programme

1. Press Start / Pause / Cancel key for 3 seconds to cancel the programme.
2. Release the key when the Start / Pause indicator starts flashing. For a couple of minutes the machine will fulfill the necessary operations required to cancel the programme.



You can select and operate a new programme following the cancellation of the programme.



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

### Changing a programme

To change a running programme, you should cancel the programme in the first place. Then, you can select and start a new programme.

### Volume setting

Your machine is equipped with a Buzzer to inform warnings audibly. When the Volume Level key is pressed and hold for 3 seconds to adjust the volume level, Volume Level indicator will light and the Buzzer will play the opening melody in the same volume set. At the moment of first press, current key tune will be played. First line and the speaker icon will light for low volume. 3 lines altogether and the speaker icon will light for high volume. Volume Level indicator will go off after 3 seconds.

### Salt indicator (S)

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 warning indicator appears on the display of your machine.



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

### 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 warning indicator appears on the display of your machine.

### Water Cut-off indicator (⚡)

Water Cut-off warning indicator will light when the machine cannot take in water. When the water is supplied again, warning light will be turned off automatically.



Make sure that the water is not cut-off and the tap is not closed when the Water Cut-off warning light is illuminated. Call Authorised Service Agent if water is not cut-off and the tap is open.

### End of programme

End of Programme indicator will light up once the washing programme is over.

1. Press On / Off key to turn off your machine.
2. Close the tap.
3. Unplug the machine from the socket.





If no key is pressed for 5 minutes after the programme is over, your machine will turn off automatically.



Leave your dishes in the machine for about 15 minutes after they are washed in order to have them cooled down. 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 MAINTENANCE AND CLEANING

Service life of the product extends and frequently faced problems decrease if it is cleaned at regular intervals.



Unplug the product and turn off the tap before attempting any cleaning procedures.



Do not use abrasive substances for cleaning.



Clean the filter and impellers at least once a week in order for the machine operates efficiently.

### Cleaning the outer surface of the product

Wipe the outer surface and door gaskets of the product gently with a mild cleaning material and damp cloth. Wipe the "Control panel" only with a slightly damp cloth.

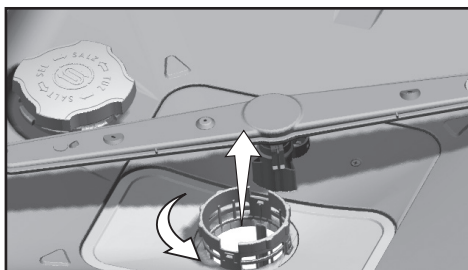
### Cleaning the interior of the machine

- Clean the interior of the machine and the tank by running a programme with or without detergent based on the degree of soil.
- If water has remained in the machine, drain the water by performing the procedures under the topic "Canceling a programme". If the water cannot be discharged, remove the filters as specified in the "Cleaning the filters" section and check if there are any leftover deposits that have accumulated at the bottom of the machine, blocking the water path. Clean if necessary.

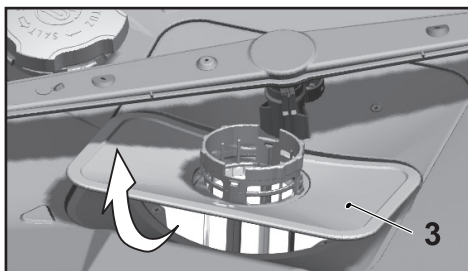
### Cleaning the filters

Clean the filters at least once a week in order for the machine operates 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.

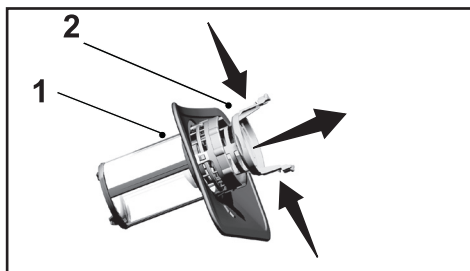
1. Turn the micro filter (1) and coarse filter (2) assembly counter clockwise and pull it out from its seating.



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



3. Press the two pawls 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. Place the metal/plastic filter.
6. Place the coarse filter into the micro filter. 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.



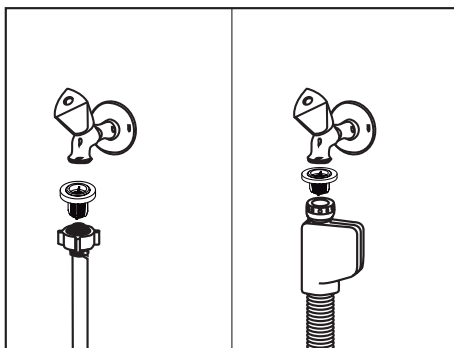
Incorrect placement of the filters will reduce washing efficiency.

### Cleaning the hose filter

Damages on the machine that may be caused by impurities coming from the urban supply water 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. After taking out the filter, clean it under running tap water.
3. Place the cleaned filter back to its seat in the hose.
4. Install the hose to tap.

(depends on model)

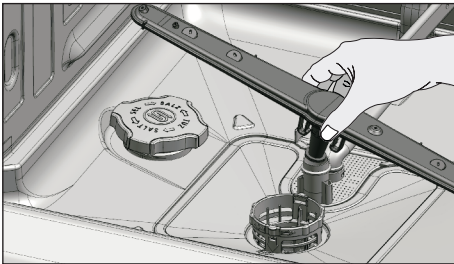
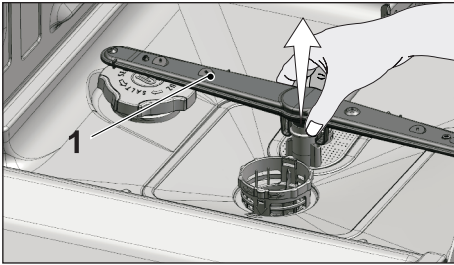


### Cleaning the impellers

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

#### Lower impeller

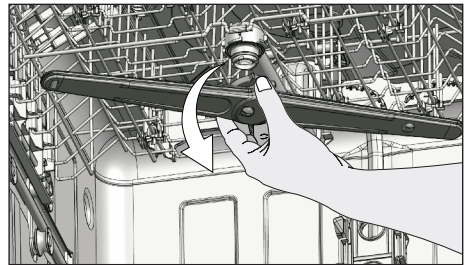
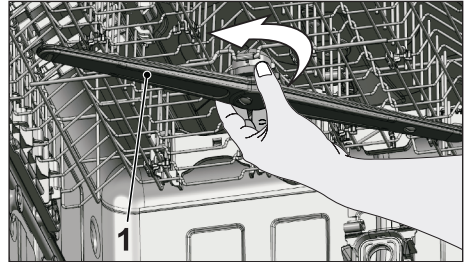
Check if the holes on the lower impeller (1) are clogged. If they are clogged, remove and clean the impeller. You can pull the lower impeller up to remove it.



### Upper impeller

Check if the holes on the upper impeller (1) are clogged. If they are clogged, remove and clean the impeller. Turn its nut to left to remove the upper impeller.

Make sure that the nut is tightened well when installing the upper impeller.

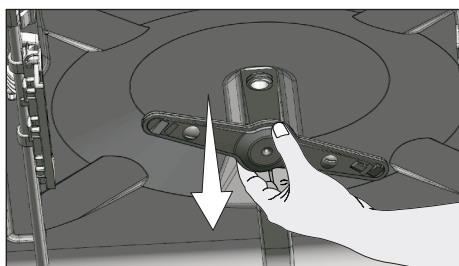
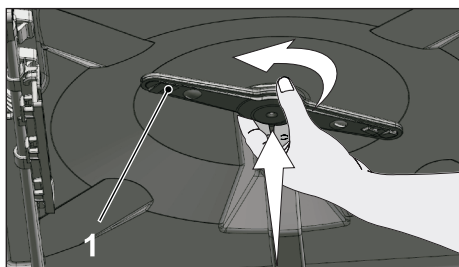


### Ceiling Impeller

Check if the holes on the top ceiling impeller (1) of your machine are clogged. If they are clogged, remove and clean.

To remove them, slightly push them upwards and then rotate to left.

To install the impeller, seat it into its slot, push slightly upwards and turn it rightwards until it is securely tightened. When the impeller is released, check if it rotates without any obstruction.



## 7 TROUBLESHOOTING

### Machine does not start.

- Power cable is unplugged. >>> Check if the power cable is plugged in.
- Fuse is blown. >>> Check the fuses in your house.
- Water is cut. >>> 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 programme is unsuitable. >>> Select a programme with a higher temperature and cycle time.
- Impellers are stuck. >>> Prior to starting the programme, turn the lower and upper impellers by hand to make sure that they rotate freely.
- Impeller holes are clogged. >>> Lower and upper impeller holes might be clogged with food remnants such as lemon pips. Clean the impellers 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 you to use 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 programme definitions. We recommend you to use 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 programme is over. >>> Do not unload your machine right after washing process is completed. Slightly open the door and wait for evacuation of the steam inside for a while. Unload the dishes after the pieces cool down to a touchable level. Start unloading process from the lower basket. Thus, dropping of water remained on a piece at upper basket onto the pieces at lower basket is prevented.
- Selected programme is unsuitable. >>> Since rinsing temperature is low at programmes with short duration, drying performance will also be low. Select programmes with longer duration for a higher drying performance.
- Surface quality of the kitchen utensils is deteriorated. >>> Desired washing performance can not be obtained on 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 Teflon kitchen utensils. It is associated with the structure of Teflon. Since the surface tensions of Teflon and water are different, water droplets will remain as beads on the Teflon surface.

### **Tea, cafe or lipstick stains remain on dishes.**

- Selected programme is unsuitable. >>> Select a programme with a higher temperature and cycle time.
- Surface quality of the kitchen utensils is deteriorated. >>> Tea and cafe 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 on 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 you to use 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 prewash programme to remove the salt that spilled inside the machine. Since the salt granules that will remain under the lid will dissolve during prewash, causing the lid loosen, check the lid once again at the end of the programme.

### There is a different odour in the machine



A new machine has a peculiar odour. It will fade out after a couple of washes.

- 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 Prewash programme without detergent every 2 days. In such cases, do not close the door of the machine completely in order to avoid odour build up in machine. You can also use commercially available odour 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 prewash programme to remove the salt that spilled inside the machine. Since the salt granules that will remain under the lid will dissolve during prewash, causing the lid loosen, check the lid once again at the end of the programme.
- Salty food remnants have remained on dishes for a long time. >>> If cutlery soiled with such foods will be kept waiting in machine, dirt 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 gets 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.
- Cutlery 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.
- Impeller holes are clogged. >>> Lower and upper impeller holes might be clogged with food remnants such as lemon pips. Clean the impellers regularly as illustrated in section "Cleaning and Care".

### Decorations and ornaments on kitchen utensils are being erased.



Decorated glasses and decorated lustre porcelains are not suitable for washing in the dishwasher. Manufacturers of some 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 prewash programme to remove the salt that spilled inside the machine. Since the salt granules that will remain under the lid will dissolve during prewash, causing the lid loosen, check the lid once again at the end of the programme.
- 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 tines. 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 (<5 dH), do not use salt. Choose programmes that wash in higher temperatures (e.g. 60-65 °C). 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. Removing the coarse soil on the dishes under tap water, with a tissue paper or fork will be sufficient.
- 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 programme.**

- 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 it 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 Authorised Service Agent. Never try to repair a nonfunctional product yourself.

DETERGENT-SALT-RINSE AID USAGE TABLE FOR DISHWASHERS			
WATER HARDNESS LEVEL			
Soft (Low Water Hardness) Water Hardness < 6 dH (German Water Hardness) 1st Grade	Powder Detergent	<del>Salt</del>	Adjust your rinse aid setting to 2nd or 3rd level.
	Liquid Gel Detergent		
	Classic Tablet Detergent		
Hard (High Water Hardness) Water Hardness is 6-22 dH 2nd, 3rd or 4th Grade	Powder Detergent	Salt	Increasing rinse aid setting from 1st to 6th level provides more drying and brightness.
	Liquid Gel Detergent	<del>Salt</del>	Adjust your rinse aid setting to 1st or 2nd level.
	Classic Tablet Detergent		
Very Hard (Very High Water Hardness) Water Hardness > 22 dH 5th or 6th Grade	Powder Detergent	Salt	Increasing rinse aid setting from 1st to 6th level provides more drying and brightness.
	Liquid Gel Detergent		
	Classic Tablet Detergent		

**Classical Tablet Detergent:** It includes only detergent with tablet form.

**All In One Tablet Detergent:** It includes detergent, rinse aid and salt factor with tablet form.

X = Do not use

Water Hardness Level	Problem	Reason of Problem	Correct Detergent-Salt-Rinse Aid Usings
Soft (Low Water Hardness) Water Hardness < 6 dH	Discolouration on glassware	- Use of non-dishwasher safe glassware in dishwasher.	<del>Salt</del>
		- Use of unsuitable detergent at this water hardness grade.	
		- Supply water very hard	
Hard (High Water Hardness) Water Hardness > 6 dH	Blobs or lime spots	- Use of non-dishwasher safe glassware in dishwasher.	Salt
		- Use of unsuitable detergent at this water hardness grade.	
		- Use of non-dishwasher safe glassware in dishwasher.	
All In One Tablet Detergent: it includes only detergent with tablet form.	Scratches on glasswares	- Use of non-dishwasher safe glassware in dishwasher.	<del>Salt</del>
		- Use of unsuitable detergent at this water hardness grade.	
		- Use of non-dishwasher safe glassware in dishwasher.	

**Classical Tablet Detergent:** it includes only detergent with tablet form.

**All In One Tablet Detergent:** It includes detergent, rinse aid and salt factor with tablet form.

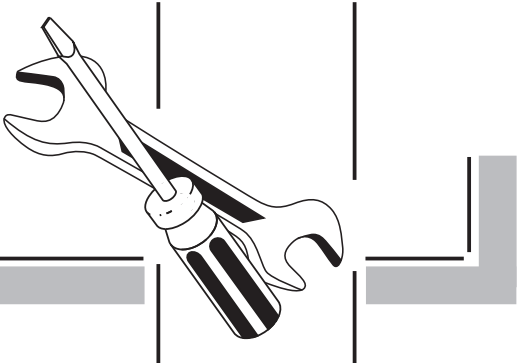
X = Do not use

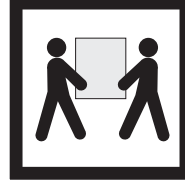
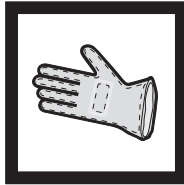
Frequent use of short duration and/or low temperature programmes can cause undissolved detergent to build up in the system. We advise a long duration/high temperature (60C) wash once per month to overcome this.

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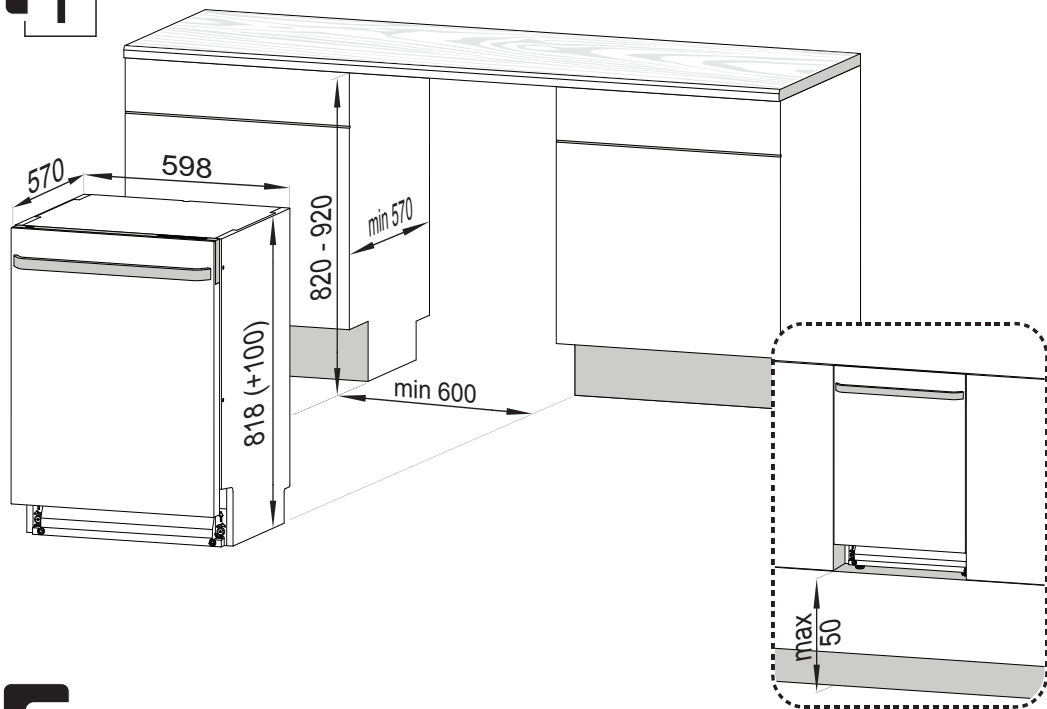
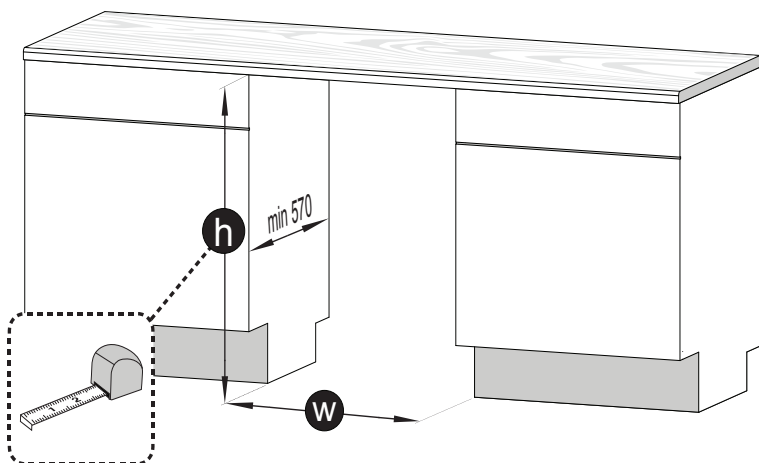
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# INSTALLATION MANUAL






a)	b)	c)	d) Ø 4 x 36mm
e)	f) Ø 3.5 x 14mm	g)	h) Ø 4 x 6mm
i)	j)	k)	l) (+50mm)

**1****2**

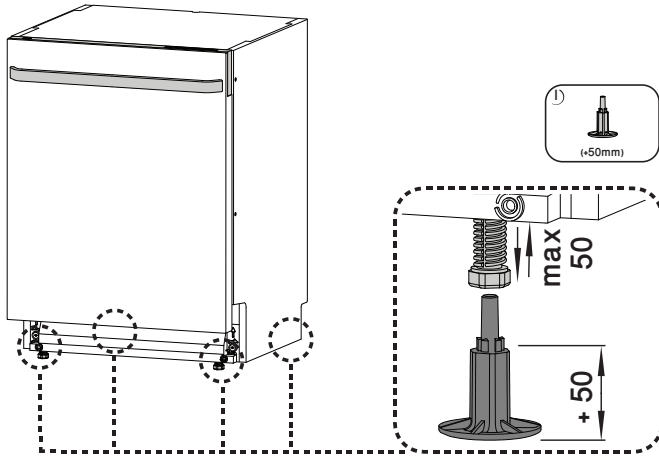
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**3**

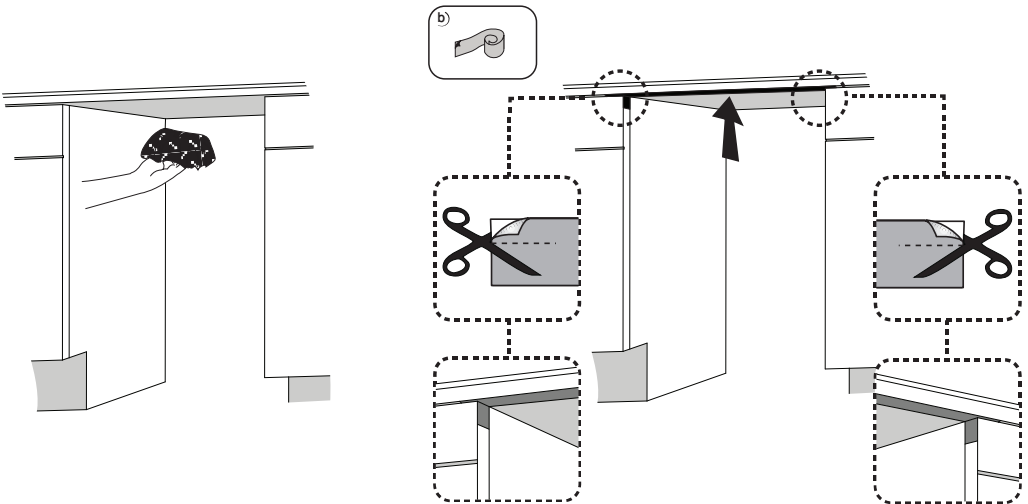
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**4**

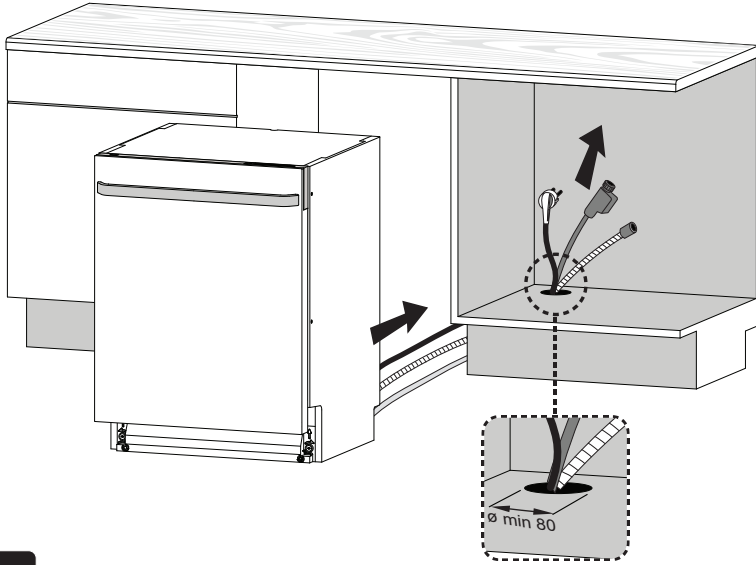
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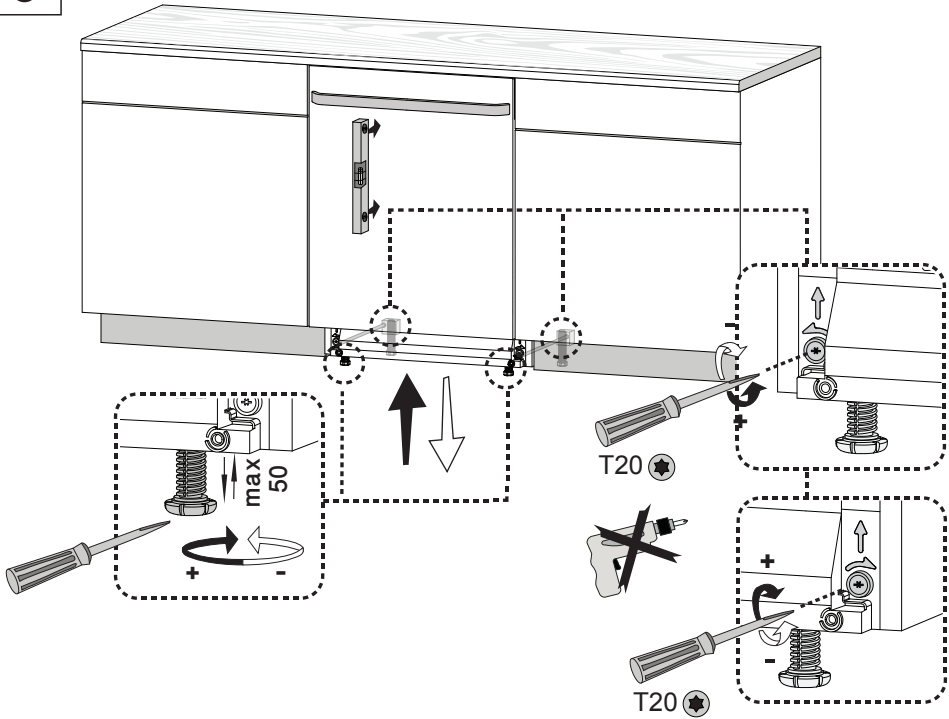
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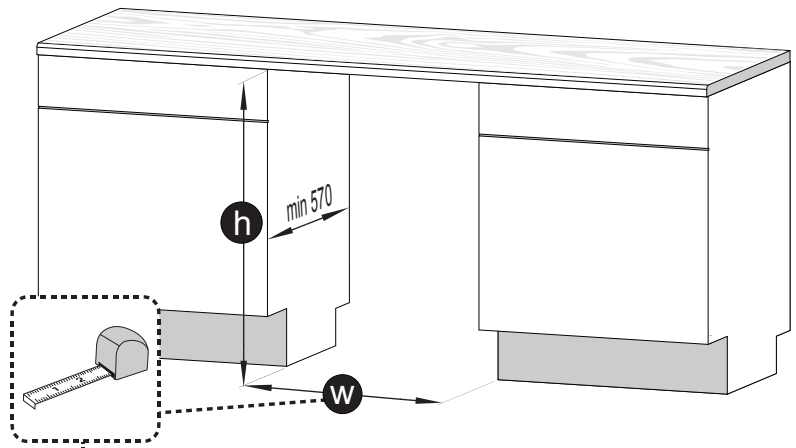
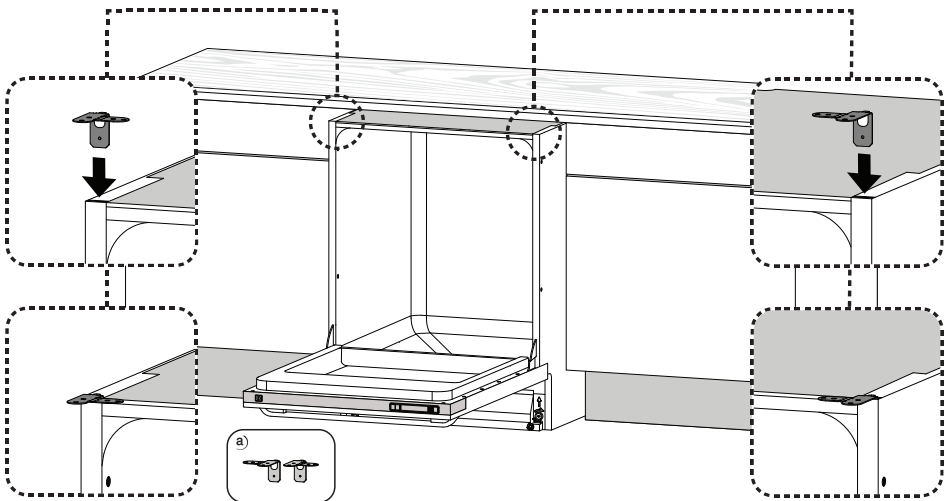
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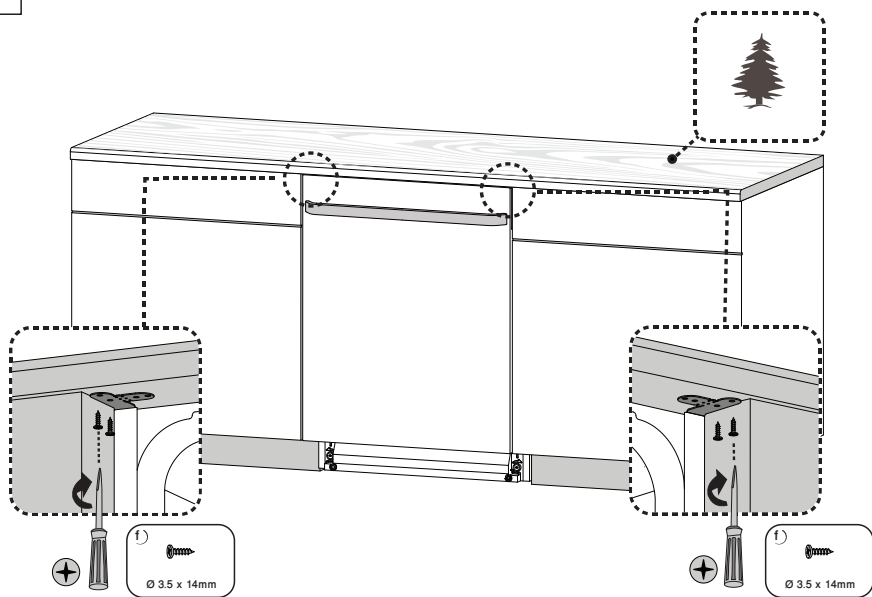
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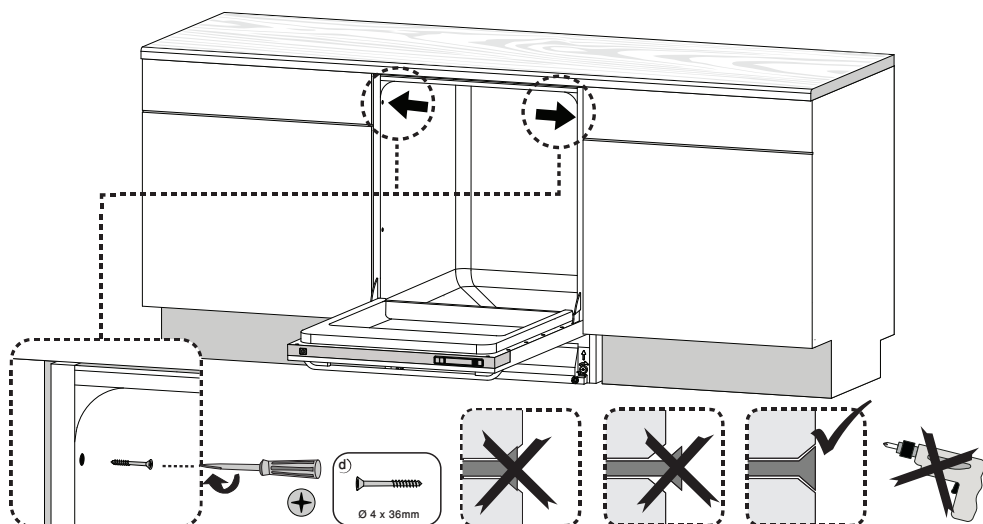
**7** $w > 610$ **8** $w = 600 - 610$ **10****8**

9

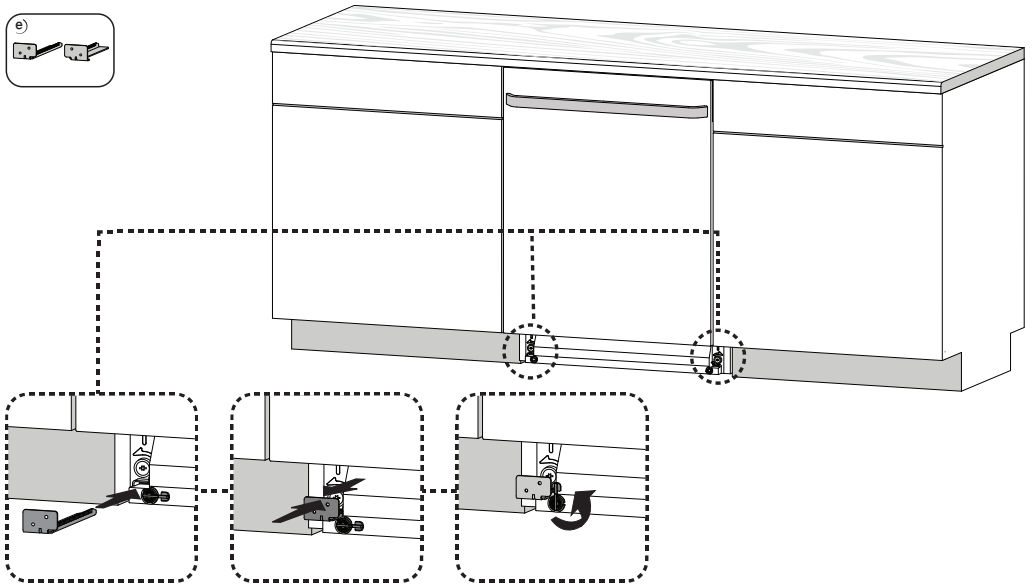
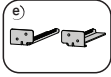


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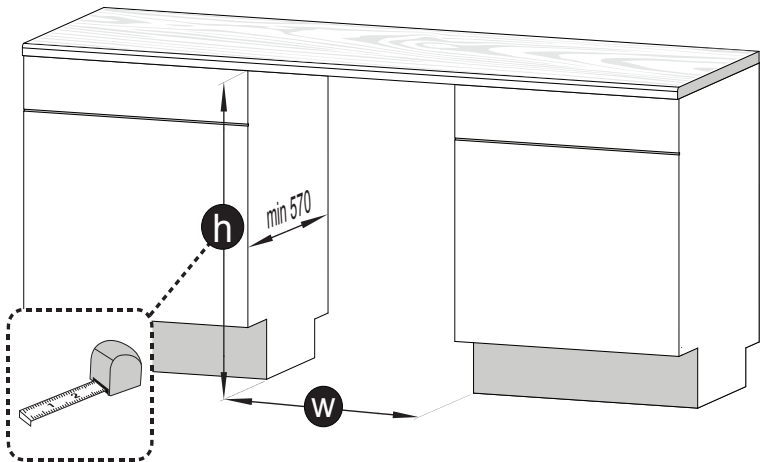
10



# 11



# 12



**h** = 870 - 840



**13**

**h** = 840 - 870



**14**

**h** = 870 - 920






**15**

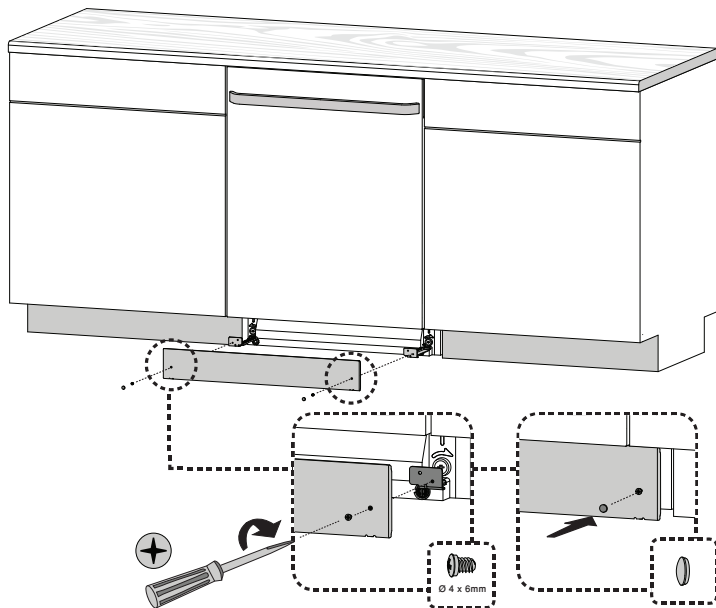
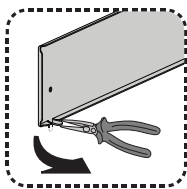
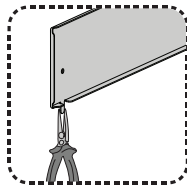






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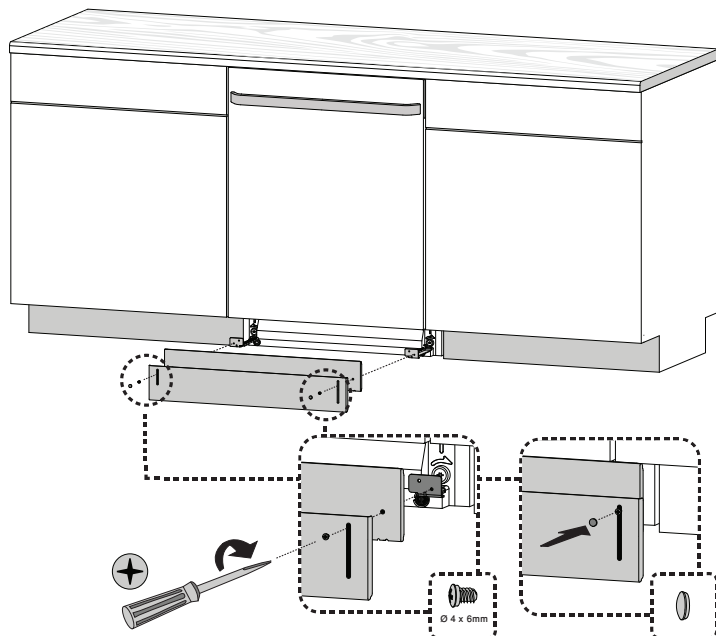
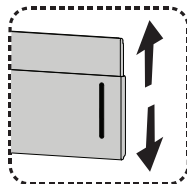
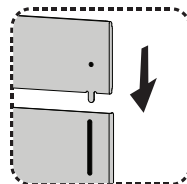


**13**





- i) 
- h)  Ø 4 x 6mm
- g) 

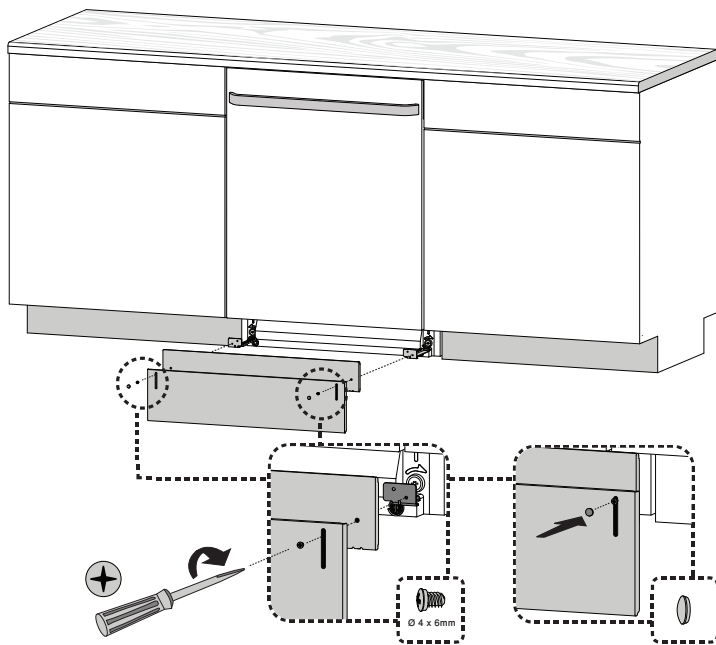
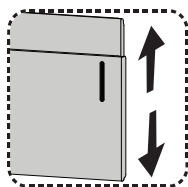
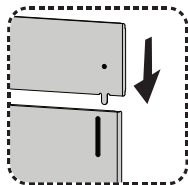

 **17**
**14**

- i) 
- j) 
- h)  Ø 4 x 6mm
- g) 


 **17**



15

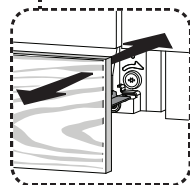
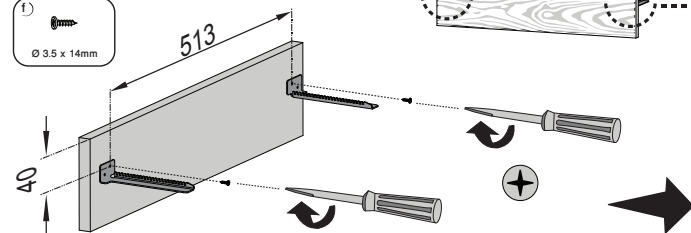
- i) 
- k) 
- h)  Ø 4 x 6mm
- g) 

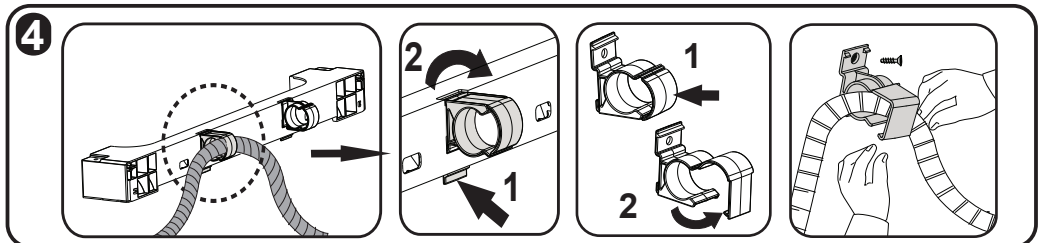
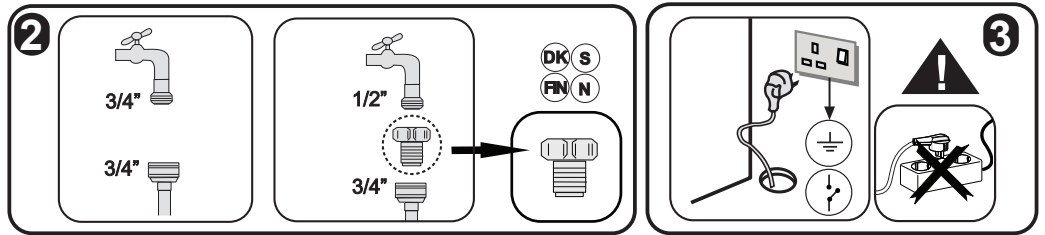
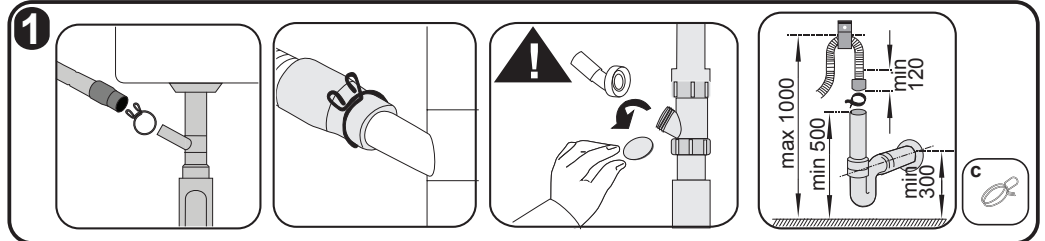
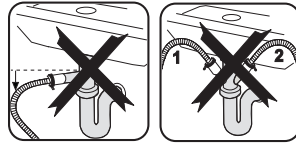
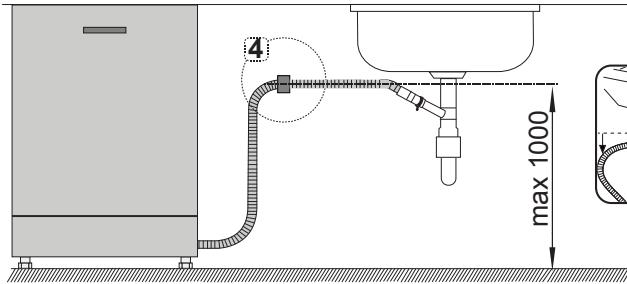
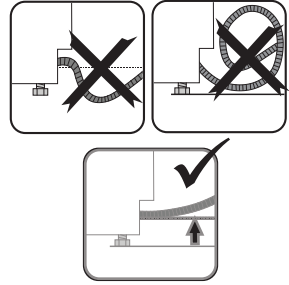
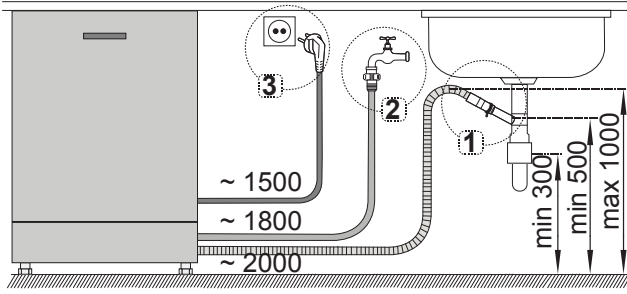


➔ 17

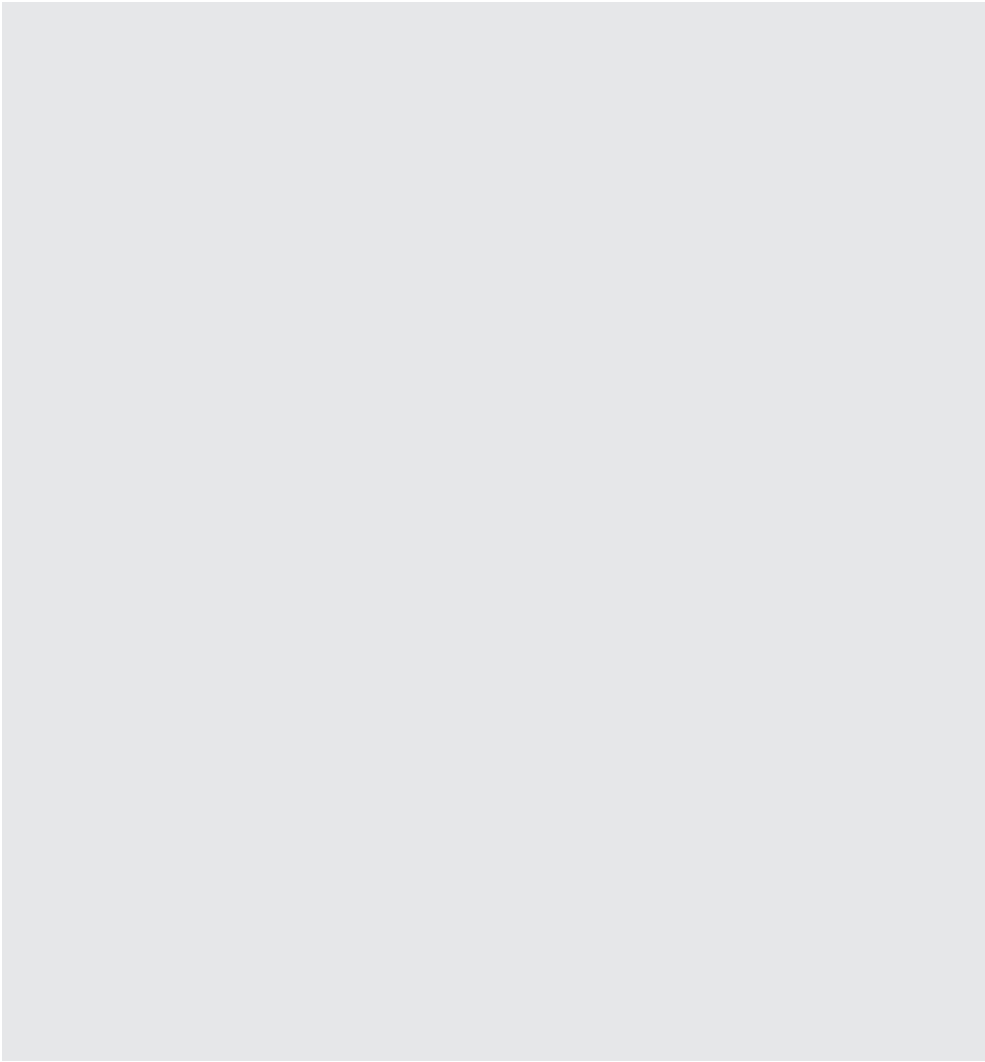
16

- f)  Ø 3.5 x 14mm









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