# Operating Instructions Dishwasher

Save these instructions for future reference

Dear ASKO customer!

Thank you for choosing this quality product from Scandinavia, which was made in Sweden.

We want you to feel assured that the inside of your new machine is just as good as the outside and that the ethics and standards that went into the production of this machine are just as high as the quality and performance that you will receive from it. We hope that this product will give you many years of pleasure.

To ensure that you get the most out of your new machine, we recommend that you read the operating instructions before using the machine. The operating instructions also contain information on how to avoid damaging the environment.

ASKO D5233(Duo)



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### Before doing your first wash:

#### Read through the directions for use

Read through the directions for use before starting to use your machine, especially the Safety, Child Safety, and Basic Course sections.

#### Take care with certain materials

Read the Fragile Dishes section before washing china with unglazed decoration or other household goods made of plastic, wood, or crystal requiring careful treatment.

#### Check the door fitting

Check that the door of the dishwasher fits properly: open the door a little and let it go. Does it stay exactly where you released it? If not, you should check the installation instructions or consult the installer.

#### Note!

Do you need this Use&Care Guide in spanish? Log onto www.askousa.com/customercare to download.

¿ Necesita esta Instrucciones de uso y cuidado en español? Entre en www.askousa.com/customercare y descárguesela.

# Important safety instructions



This manual does not cover all possible conditions and situations that may occur. Common sense and caution should always be used when installing, operating, and maintaining any appliance.

- Read all instructions before using the dishwasher
- Dishwashers must be electrically grounded. Read the Installation Instructions for details.
- Use the dishwasher only for its intended purpose.
- Do not run the dishwasher while you are out of the home.
- Use only automatic dishwasher detergents and rinse agents.
- To reduce the risk of injury, keep detergents and rinse aids out of the reach of children.
- Do not load sharp items near the door; you could damage the door seal.
- Place sharp knives in the cutlery basket with the sharp ends down to avoid the risk of cut-type injuries.
- Do not wash plastic items unless they are marked "dishwasher safe" or the equivalent. For items not marked, check the manufacturer's recommendations. Items not dishwasher safe could become deformed or melt and create a potential fire hazard.
- Do not touch the heating element during or imediately after use.
- Do not operate the dishwasher unless all enclosure panels are properly in place (i.e., guard plate, access panel, toe kick, etc.)
- Do not tamper with controls by removing or changing.
- Do not abuse, sit on, or stand on the dishwasher door or baskets.
   To reduce the risk of injury, do not allow children to play in or on a dishwasher.
- Under certain conditions, hydrogen gas

may be produced in a hot water system that has not been used for two weeks or more. HYDROGEN GAS IS EXPLOSIVE. If the hot water system has not been used for two weeks, before using the dishwasher turn on all hot water faucets and let the water flow from each for several minutes. This will release any accumulated hydrogen gas. As the gas is flammable, do not smoke or use an open flame during this time.

- When removing an old dishwasher from service or discarding it, remove the door to the washing compartment.
- Do not store or use combustible materials, gasoline, or other flammable vapors and liquids in the vicinity of this or any other appliance.
- Disconnect electrical power to dishwasher before servicing.
- Repairs should be done by a qualified technician.

# **Child safety!**



#### Child safety tips

 $\Lambda$ 

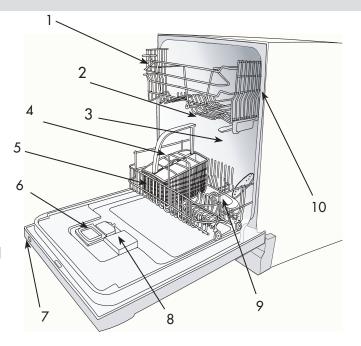
Dishwasher detergents and rinse aids are corrosive, so always keep them out of reach of children.

- Should a child swallow dishwasher detergent or rinse aid, give plenty to drink immediately, i.e., one or two glasses of milk or water. Do not try to induce vomiting. Seek medical advice immediately: Call the National Capital Poison Center at 1-800-222-1222
- Always close the door and start the dishwasher as soon as you put in the detergent.
- Always keep small children away from the machine when it is open. There may be some detergent residue left inside the machine.
- If dishwasher detergent gets in someone's eyes, rinse them with plenty of water for at least 15 minutes.
- Do not allow children to use or play in or on the dishwasher.
- Load all long and sharp items in the knife/ utensil basket. If this is not possible, load sharp objects with the pointed end facing the back of the dishwasher. Sharp items loaded in the cutlery basket should be loaded with pointed ends down.
- Engage the child safety lock.

### Parts of the dishwasher\*

- 1. Upper basket
- 2. Spray arms
- 3. Lamp
- 4. Cutlery basket
- 5. Lower basket
- 6. Dishwasher detergent compartment
- 7. Main power switch
- 8. Rinse Aid Compartment
- 9. Filter
- 10. Type plate

\*Details may differ depending on the model and market!



### **Technical data**

Height 34-3/8" - 36-1/2" 874-927mm

Width 24" (610)mm Depth 24" (610mm)

Weight 105.8 lbs (48 kg)

Water pressure 4.2 - 140 psi

0.03 - 1.0 MPa 0.3-10 Bar

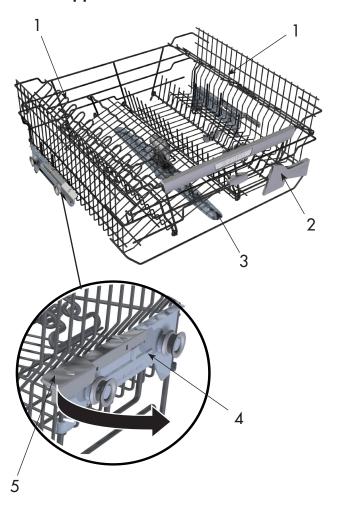
Connection Single phase, 120 V, 60 Hz, 10 A

Max output 1300 W

### The baskets\*



#### **Upper basket**



- 1. Wine glass shelf
- 2. Knife stop
- 3. Upper spray arm
- 4. Runner for adjusting basket height
- 5. Catch

#### Raising/lowering the upper basket

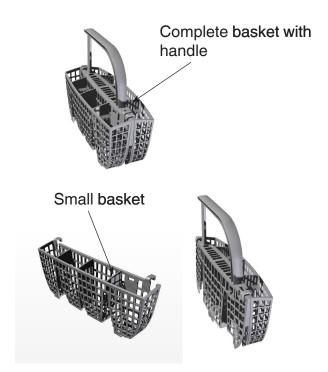
- Pull out the upper basket.
- Pull out the catches (5) on either side of the upper basket and lift or raise the upper basket at the same time.
- Release the catches once the basket is in the desired position.

#### Lower basket

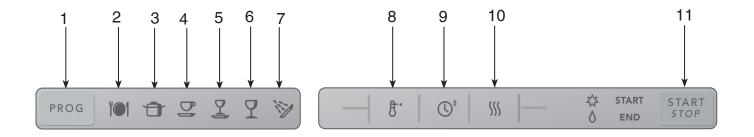


\*Details may differ depending on the model and market!

#### **Cutlery basket**



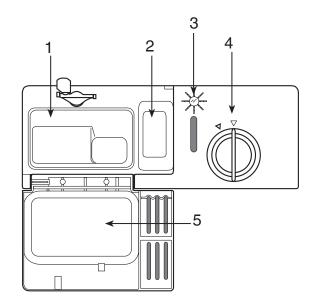
# **Control panel**



- 1. Program selector
- 2. Daily wash
- 3. Heavy wash
- 4. Normal wash
- 5. Delicate wash
- 6. Quick wash
- 7. Rinse & Hold

- 8. Temperature
- 9. Delayed start
- 10. Drying
- 11. Start/stop

# **Detergent Dispenser**



- Compartment for main wash dishwasher detergent
- 2. Compartment for pre-wash detergent
- 3. Refill indicator for rinse aid (not all models)
- 4. Rinse aid cover
- 5. Detergent compartment cover

### **Basic Course**

Below are step-by-step instructions to help you achieve the best possible dishwashing results.

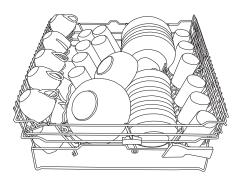
### Load the baskets correctly!

Thanks to Self Cleaning System, you do not need to rinse the dishes under running water. Simply remove large food particles and debris. Convenient and environmentally-friendly!

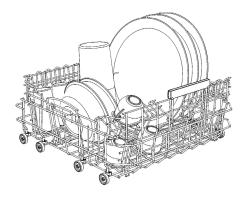
Place glasses, cups, bowls, side plates, and saucers in **the upper basket**. Wine glasses should be hung from or leaned against the wine glass shelf.

#### Note!

Ensure that all soiled surfaces face inwards or downwards!



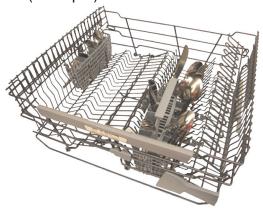
Place dinner plates, side plates, serving dishes, saucepans in **the lower basket**.



The cutlery basket is suitable for cutlery and can be placed in the upper or in the lower basket. The cutlery basket with handle is divisible.



Cutlery baskets - placed in the upper basket (exemple).



Cutlery basket - placed in the lower basket (exemple).



Stand the cutlery with handles downward and as spread out as possible. Ensure that spoons are not resting inside each other.

Do not put cutlery made of different materials - such as silver and stainless steel - in the same compartment (risk of stains).

#### Note!

Check that the spray arms are able to move freely. See the section entitled Fragile Dishes if you want to wash objects that may be fragile.

### 2 Dishwashing detergent

We recommend that you use only unscented, granular automatic dishwashing detergent. Using the wrong detergent could cause flooding and/or damage your dishwasher. Do not use detergent that has been wet and is clumped. Also, check the expiration date on the container.

The amount of detergent needed can vary due to differences in water hardness. To determine the water hardness in your area, contact your local water utility or area water softening company. The harder the water, the more detergent you may need. Refer to the chart below for the recommended detergent amounts based on water hardness. Remember, you should adjust the amount of detergent you use by small amounts until you find the correct amount.

Twelve grains and higher is extremely hard water and detergent alone may not be enough. You may need to use a water softener to maximize the performance of your dishwasher. Also, in areas with hard water (9+) you may need to wash at lower temperatures to prevent hard water deposits from forming in tank and wash system. In hard water areas, both the dishes and the

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This can be removed by replacing the prewash detergent with two tablespoons of citric acid. If the water is very hard, use a rinse aid that contains citric acid.

Different brands of dishwasher detergent have different amounts of phosphorous for softening water. If you have hard water and use a detergent with less than 8.7% phosphorous content, you may need to use more detergent or use a detergent with more than 8.7% phosphorous content.

#### NOTE:

We recommend that you do not add prewash detergent for the Quick wash programs.

#### NOTE:

If you use a dishwashing detergent with a rinse aid additive, you should not fill the rinse aid dispenser. This could cause a film on your dishes.

#### Recommended detergent amounts based on water hardness

Water hardness	Detergent amounts	
Soft	Prewash 1 teaspoon	
(0-3 grains per gallon)	Main wash 1 to 1-1/2 tablespoons	
Medium	Prewash 1 teaspoon	
(4-8 grains per gallon)	Main wash 1 to 2 tablespoons	
hard	Prewash 1 teaspoon	
(9+ grains*)	Main wash 2 to 3 tablespoons	
* 12 grains and higher is extremely hard water.		

#### Dishwasher tablets

Halve the tablet if it is difficult to close the dispenser cover. There is a risk that the dishwasher detergent will not break down properly to give the correct dosage if the cover is tight and cannot be opened correctly.

# 3-in-1/ Multi-purpose detergent Note!

Read the directions for use for such products carefully. If anything is unclear, contact the detergent manufacturer.

3 Switch on the main switch

4 Select program
For select program see part
Programs.

**5** Select option

If you wish to use additional options continue to part Option. Otherwise you can now start the machine, see point 6.

### 6 Press start

The dishwasher will now start. It manages the entire wash automatically.
Ensure that the door is properly closed or the machine will not start.

#### **Changing program**

If you want to change program after having started the machine, press the Start/Stop button for three seconds. Then select a new program and press the Start/Stop button. Make sure there is detergent in the dispenser.

#### Do you want to load more dishes?

Carefully open the door; the machine will stops automatically, put in the dishes, close the door and the dishwasher will continue from where it left off.

# If the machine is switched off at the main switch

(or in the event of a power cut) before the washing program has been completed, the interrupted program will continue when the power comes back on.

#### Note!

If the power is switched off, or if the door is open during drying, the program is interrupted.

**7** Standby mode

Once the machine has finished, it only draws standby current. Should you wish to disconnect the power completely, just switch off at the main power switch. Turn off the water faucet if the machine is not to be used for an extended period, such as during vacations, for example.

### **Programs**

Select a program by pressing the program selector one or more times until the required program symbol lights up. See the Program guide below.

# Rinse & Hold

For rinsing the dishes while waiting for the machine to be filled.



#### Daily wash

A program suitable for daily dishes. The program can also deal with dried food, though the short prewashes are not designed for burnt food.



#### Heavy wash

The Heavy Wash program should be used for heavily soiled dishes, e.g. saucepans, pots and gratin dishes. If there is still space in the machine after loading such items, you can add plates etc.



# Normal wash

Used for washing normally soiled dishes such as plates, serving dishes, cups and glasses, etc.

#### Note!

For normally soiled dishes, use the Normal Wash program  $\stackrel{\square}{\hookrightarrow}$  with Normal temperature 

To save more water and energy use Economy temperature and Economy dry.



#### Delicate wash

If the dishes are not heavily soiled, you can select Delicate wash. This program is intended for glass and china which has just been used and therefore does not need such a powerful program.



# Quick wash

Select Quick Wash if the dishes are very lightly soiled. This program is used for very lightly soiled glass and china, e.g. coffee cups.

# **Program Description**

Programvion Programs	Daily	Heavy	Normal	Delicate	Quick	Rinse & Hold
Program info	A program suitable for daily dishes. The program can also deal with dried food, though the short prewashes are not designed for burnt food.	For heavily soiled loads, such as pots, pans, casseroles, etc.	For nor- mally soiled loads such as plates, glasses, bowls, and lightly soiled pans.	For glass and china which has just been used and therefore does not need such a powerful program.	For lightly soiled loads that are washed immediately after use. This program can also be used for delicate items.	To rinse dishes that you plan to wash later that day.
Options	₿°	<b>∄°</b> \$\$\$	₿°\$\$\$	₿°	<b>∄° \$\$\$</b>	
Prewashes with SCS*	3 prewashes	2 prewashes	2 prewashes	1 prewash- es		
Mainwash ***	150°F	160°F	150°F	120°F	140°F	
Number of rinses	last rinse 140°F	3, last rinse 160°F	2, last rinse 160°F	2, last rinse 120°F	2, last rinse 140°F	1 rinse
Consumpti	on values					
1. Wash time hot water / min. **	120	205	150	105	60	4
Energy ap- prox. kWh	0.8	1.1	0.9	0.5	0.7	0.01
2.Wash time cold water / min.**	150	240	190	125	80	4
Energy ap- prox. kWh	1.5	1.8	1.7	0.8	1.1	0.01
Water con- sumption (gallon)	5.3 (20 l)	5.3 (20 l)	5.8 (22 l)	2.7 (10 l)	2.6 (10 l)	0.9 (3 l)

<sup>\*</sup> SCS = Self Cleaning System.

<sup>\*\*</sup> All quoted times are approximate. Cycle time fluctuations may occur due to water temperature, water pressure, variations in voltage etc.

<sup>1.</sup> Hot water connection approx. 120°F (50°C).

<sup>2.</sup> Cold water connection approx. 50°F (10°C).

<sup>\*\*\*</sup> The listed temperatures are set as the default from the factory. By using the temperature option you can alter the temperature.

### **Options**

#### **Select options**

To select an option, press one of the option buttons.

# **Temperature**

With the temperature option button you can select the wash temperature yourself. You can vary the temperatures as follows:

	Normal	Economy
Daily:	150°F (65°C)	140°F (60°C)
Heavy:	160°F (70°C)	130°F (55°C)
Normal:	150°F (65°C)	130°F (55°C)
Delicate:	120°F (50 °C)	90°F (40°C)
Quick:	140°F (60°C)	85°F (30°C)

The temperature symbol will light up if you have chosen the high temperature. This selection will remain in force until a change is made.

### **SS** Drying

If you desire a better drying result, press the Drying options button (Normal) and a symbol showing three wavy lines will light. If you want a program without Drying options (Economy), press the button again and the symbol will go out.

#### Delayed Start

- If you want the machine to start up later, press the 'Delayed start' option button, you can delay the start.
- To cancel Delayed start, press and hold the Start/Stop button for 3 seconds.

# **Eco-dishwashing**

#### Only wash full loads

Waiting to run the wash until the machine is full saves energy.

#### Wash at a lower temperature

If the dishes are only lightly soiled you can run a Quick wash program and reduce the temperature to 86°F (30°C).

#### Select a program with Economy dry

To save energy, select Economy dry. You will get a better drying result if you leave the door slightly open after the end of the program.

#### Do not rinse before dishwashing

Thanks to the dishwasher's Self Cleaning System (SCS) you do not need to rinse the dishes under running water before loading them into the machine.

# Choose environmentally-friendly dishwasher detergent

Read environmental declarations on the package!

#### Connect to cold water supply

For best performance it is recommended that connection is to cold water.

### Fragile dishes

A number of household goods are not suitable for machine washing. This can be due to a variety of reasons. Certain materials cannot withstand intense heat; others can be damaged by the dishwasher detergent.

#### Fragile decoration

China with decoration on top of the glaze (the goods have a rough feel) should not be machine washed.

#### Crystal/ glass

Place the goods so that they do not knock together during the wash. Use the lowest possible wash temperature and the shortest possible program. Do not heat dry! Antique and very fragile items should not be machine washed.

Glass which is machine washed at high temperatures can in time develop a grey film which cannot be removed. Wash fine glass at the lowest temperature and with a low dosage of dishwasher detergent.

#### Silver

Silver and stainless steel items should not come into contact with each other as the silver can discolor.

#### **Cutlery with glued handles**

Certain types of adhesive cannot withstand machine washing. In such cases the handles can come loose.

#### Wood

Wooden items should only be machine washed if they are labeled as dishwasher safe.

#### Aluminum

Aluminum can be dulled by machine washing. However, good quality aluminum saucepans can be machine washed, although a reduction in luster should be expected.

#### **Plastic**

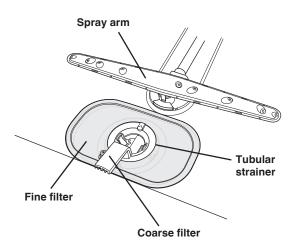
Certain types of plastic cannot withstand the high temperature generated in machine dishwashing.

#### Protect plastic goods

Select a program with a low temperature.

# **Cleaning**

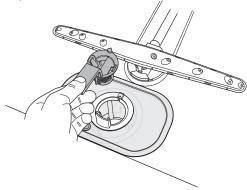
The dishwasher tub is made of stainless steel and is kept clean through normal use. However, if you have hard water, limescale deposits may form in the machine. If this happens, run a normal wash program with two tablespoons of citric acid in the dishwasher detergent compartment.



#### Coarse filter

The coarse filter traps larger food particles, which cannot get past the drain pump. Empty the coarse filter as necessary.

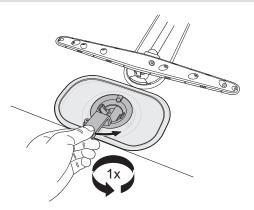
- 1. Lift the coarse filter by the handle.
- 2. Empty the coarse filter. Don't forget to replace it!



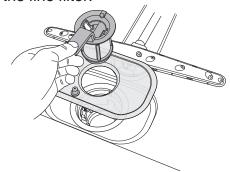
#### Fine filter

Debris that collects on the fine filter is auto matically rinsed away during each wash. However, the fine filter and its pipe section should be cleaned once or twice a year.

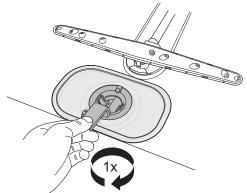
- 1. Turn the handle once counter-clockwise.
- 2. Lift the pipe section straight up by the handle. Free the coarse filter to clean the pipe section.



- 3. Remove and clean the fine filter.
- 4. Replace in reverse order. Ensure that the edges are properly sealed when replacing the fine filter.



5. Lock the filter in place by turning the handle clockwise to the stop position: the handle should point out from the dishwasher.



#### NOTE:

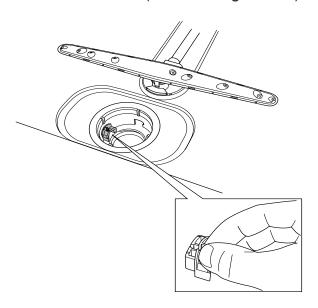
The dishwasher must not be used without the filter in place!

An improperly fitted coarse filter may affect the dishwashing result!

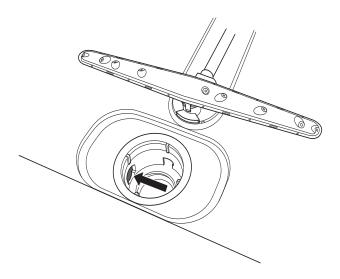
#### **Drain pump**

The pump can be accessed from inside the machine.

- 2. Remove the coarse filter and pipe section.
- 3. Remove the small fitted piece at the left of the bottom drain (see the image below).



- 4. You can release and turn the pump blade by inserting your finger into the hole and release anything blocking it.
- 5. Reinstall the fitted piece and filters.
- 6. Plug the plug into the wall socket.

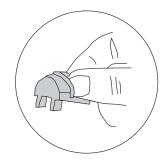


If the machine still does not start and a buzzing sound is heard, the overflow guard has been activated.

- Shut off the water.
- Pull the plug out from the wall socket.
- Call the service division.

#### NOTE!

Do not forget to reinstall the fitted piece.

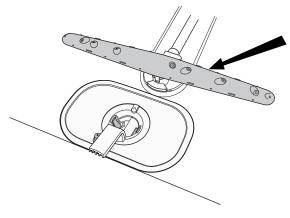


#### The spray arms

Holes and bearings can sometimes become blocked.

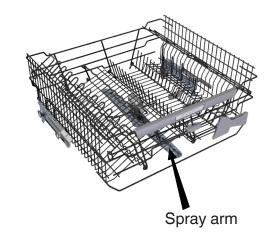
- 1. Pull the lower washer arm straight up to release it.
- 2. Remove any deposits using a needle or similar.

The washer arms also have holes under neath.



To release the upper spray arm, the upper basket must be removed.

- 1. Pull out the basket.
- 2. Remove the upper spray arm by unscrewing it counter-clockwise from the basket and clean it.
- 3. Screw the spray arm back into place.



#### Door

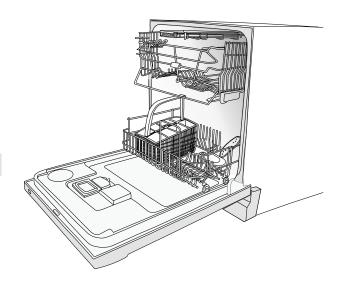
When cleaning the edge around the door, use only a slightly damp cloth, possibly with a little detergent. Do not use a spray bottle or similar around the door catch. This is to ensure that water does not penetrate into the door catch and come into contact with the electrical components.

#### CAUTION!

Do not use a spray bottle or similar around the door catch.

#### Tip!

In order to prevent bad odours in the dishwasher, clean the strips and corners with a dish brush and low-lather detergent.



### Rinse aid



#### Adding rinse aid

In some cases, drying can be made more efficient by using rinse aid.

#### **Machines with indicator on the panel**

When the rinse aid has run out and more is needed, the rinse aid symbol  $\delta$  on the panel lights up\*.

#### To fill with rinse aid:

- Turn and lift up the cover of the rinse aid compartment to the right of the dispenser.
   This is where you top up and set the amount of rinse aid to be dispensed in each wash.
- 2. Carefully pour in rinse aid up to the dosage setting knob.

Alter dosage if required. Do not forget to close the cover.

#### \*Note!

After filling there may be a short delay before the signal light goes out.

# Machines with refill indicator in detegrent dispenser

There is a refill indicator in the middle of the dispenser (see illustration). If the refill indicator is totally black, there is sufficient rinse aid. However, if the indicator has a more transparent appearance, you need to top up with rinse aid (see above).

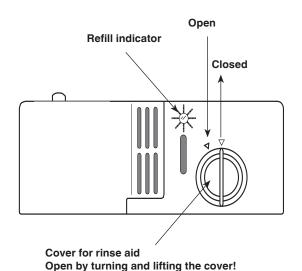
#### Select dosage

The dispenser is usually set at 1= soft water. However, depending on the water hardness, you may need to change the dosage.

Open the rinse aid cover. Here you will find the dispenser's adjustment dial. Settings 1-6: the harder the water, the higher the dosage. When the water hardness exceeds 3 grains, you should use rinse aid with citric acid (acid rinse aid).

Too much rinse aid can lead to the buildup of foam. If your water is particularly soft, you can dilute the rinse aid (1 part rinse aid, 1 part water).

Too much rinse aid can cause streaks on the dishes, while too little can result in water stains.



# **Settings**

#### Reprogramming

Some of the machine's functions can be reprogrammed. You get into the machine's change program using the machine's ordinary buttons as per the instructions below. The selection will be retained until the next time you reset this function.

Even if the machine is turned off at the main switch or loses power for any other reason, all selections registered before the interruption of power will be retained.

#### Child-safe button lock

You can prevent a child starting the machine by accident or changing the settings by programming the machine with a button lock, which requires the Temperature and Drying buttons to be pressed simultaneously to start up the machine. The button lock will automatically be reactivated after three minutes.

- (1)
- 1. Switch off the dishwasher with the main switch.
- **∱° \$\$\$** 2.
  - 2. Hold in the Temperature and Drying buttons while pressing the main switch. The Temperature, Drying and start symbols will flash. Release the Temperature and Drying buttons.
- **PROG**
- 3. Press the Program button when the Daily wash symbol is lit, the button lock has been activated
- START STOP
- 4. Then press the Start/Stop button to store the setting.

#### or **Reset**:

- 1. Switch off the dishwasher with the main switc.
- ₽°+**\$\$\$**
- 2. Hold in the Temperature and Drying buttons at the same time as pressing the main switch
- PROG
- 3. Press the Program button when the Daily wash symbol goes out, the button lock has been deactivated
- START STOP
- 4. Then press the Start/Stop button to confirm the setting.

#### Setting a signal

If you want the machine to signal when the wash is complete, you can program it to do this. The machine is set without a signal by default.

1. Switch off the dishwasher at the main switch.

- (\sqrt{\sqrt{1}}5
- 2. Hold in the Delayed start button at the same time as you press the main switch. The button flashes. Release the button.
- **PROG**
- 3. Press the Program button when the Auto wash symbol lights, the signal is activated.
- START STOP
- 4. Press the Start/Stop button and the setting will be stored until next time you want to make a change.

#### or Reset

- 1. Switch off the dishwasher with the main switch.
- (\)<sup>5</sup>
- 2. Hold in the Delayed start button at the same time as you press the main switch. The button flashes. Release the button.
- **PROG**
- 3. Press the Program button when the Auto wash symbol goes out, the signal is deactivated.
- START STOP
- 4. Press the Start/Stop button and the setting will be stored until next time you want to make a change.

# **Fault indications**

Display		Type of fault	Action
	flashes	Too much water in the dishwasher	Phone service
<u> </u>	flashes	Fault with water inlet	Check that the water tap is open
7	flashes	Valve leakage	Shut off the water tap and contact service
	flashes	Blocked drain	See 'Possible causes' in chapter Trouble shooting
	flashes	Clogged filter	Clean the filters, see chapter Cleaning

To remove the fault indications from the display, turn off the main switch and then turn it back on again.

# **Troubleshooting**

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#### The dishes are not clean

#### Possible causes

- The spray arms are not rotating
- Old dishwasher detergent.
   Note! Detergent is perishable
- Incorrect dosage of detergent
- Wrong wash program selected
- Incorrect loading of the dishwasher

# Stains or a film on the china

The china has a whitishblue sticky film

- Glasses and cups have tipped over during the wash
- Incorrectly set rinse aid dispenser
- Phosphate-free detergent in combination with hard water
- Too high a temperature and/ or too much detergent can cause etching on(crystal) glass. Unfortunately this cannot be remedied, only prevented!
- Too high dosage of rinse aid

#### Action

- Lift off the arms and clean
- Avoid large packs
- Dispense according to the level of water hardness
- Heavier programs are longer, and use higher temperatures for dirtier loads.
   Use a heavier program better suited for the load
- Do not cover china with large bowls or the like
- Try not to place too much tall glassware in the corners of the baskets
- Load the china securely
- See the chapter on rinse aid
- Change detergent
- Wash (crystal) glass at a low temperature and use dishwasher detergent sparingly. Contact the dishwasher detergent manufacturer
- Reduce dosage. See the chapter on rinse aid. If the water is very soft, you could try diluting the rinse aid with water (1 part rinse aid, 1 part water)

#### **Problems**

# Stains on stainless steel or silver

# Stains which remain after dishwashing

# Rattling sound during dishwashing

#### The machine will not start

#### Possible causes

- Certain food remnants such as mustard, mayonnaise, lemon, vinegar, salt, and dressings can cause stains on stainless steel if allowed to remain for any length of time. All stainless steel can mark silver if allowed to come into contact during the dishwashing process. Aluminum can also cause stains on dishes
- Lipstick and tea can be difficult to remove
- The dishes are not properly loaded or the spray arms are not rotating
- You have forgotten to switch on the main switch
- The door is not closed properly
- The home's circuit breaker has tripped
- The plug is not plugged in
- The water tap is off
- Overfilling/leakage
- A whirring sound (the drain pump) is heard from the machine, which ceases when the power is turned off at the main power

#### Action

- Rinse off food residue of this type if you do not intend to start the dishwasher immediately
- Seperate your cutlery into various compartments in the basket. Make sure silver and stainless steel are not together
- Heavier programs are longer, and use higher temperatures for dirtier loads.
   Use a heavier program better suited for the load
- Check that the china is loaded securely. Spin the spray arms to make sure they rotate
- Check
- Check
- Check
- Check
- Check
- Contact our Customer Care Center
- 1. Shut off the water tap
- 2. Unplug the electrical plug from the outlet
- Contact our Customer
   Care Center at the number at the bottom of the page

Problems	Possible causes	Action
Water remains in the machine	Obstruction in the drain hose	Disconnect the drain hose where it is connected to the sink's water trap. Check that no debris has become stuck. Is the cone-shaped part of the pipe cut so that the diameter is at least 16 mm?
	Kinks in the drain hose	.• Check that the hose is free from kinks or sharp bends
	The filters are clogged	Clean out the coarse filter, the fine filter and the filter
	<ul><li>Objects in the drain pump</li><li>Dirt around edges and</li></ul>	Clean out the drain pump.     See the chapter on cleaning
	corners	
Bad odor in the machine	Dirt along the strips and in corners	Clean with a dishwashing brush and low-foaming detergent
Dishes do not get sufficiently dry	The Economy dry option     has been selected	Clean with a dish brush and low-lather detergent
	The machine is not fully loaded	Activate the Normal drying option
		Load the machine full
	Rinse aid is out or set for too small a dosage	Fill or increase the amount of rinse aid
Door will not close	The baskets are not cor- rectly placed	Open the door slightly once the program has finished
		Make sure the baskets are in a horizontal posi- tion. Check that the basket water connector is aligned with the spray pipe

### **Performance information**

#### **Energy standard**

USA: ANSI/AHAM DW-1-2005

#### **Technical data**

Height: 34-3/8" - 36-1/2" 874-927mm

 Width:
 24" (610mm)

 Depth:
 24" (610mm)

 Weight:
 105.8 lbs (48 kg)\*

 Water pressure
 4.2 - 140 psi

0.03 - 1.0 MPa 0.3-10(Bar)

Electrical connection:

Rated power:

See serial tag/rating plate
See serial tag/rating plate

### **Loading of performance test**



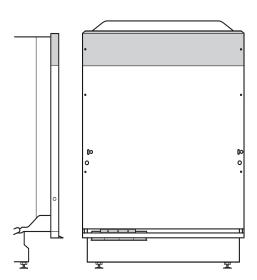
Upper basket with 10 place settings AHAM DW-1



Lower basket with 10 place settings AHAM DW-1

<sup>\*</sup>The weight can vary due to varying specifications.

### **Installation instructions**



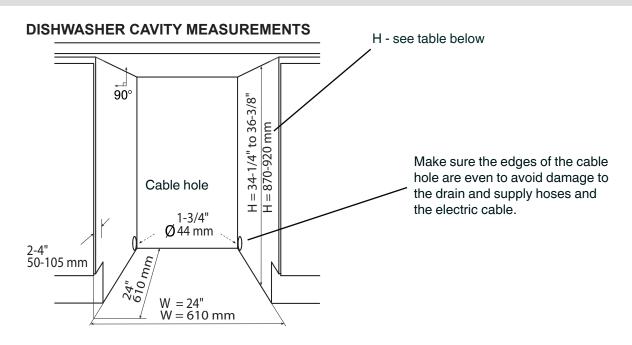
#### **SAFETY INSTRUCTIONS:**

- 1. It is important that you closely follow the instructions provided here.
- An incorrect or defective installation can lead to higher consumption of energy, water and dishwashing detergent, which can lead to higher costs and poorer cleaning results.
- 3. Plumbing and electrical installations must be carried out by qualified professionals.
- 4. Exercise caution during the installation! Wear protective gloves! Always work in pairs!
- The power socket must be fitted outside the cavity for the dishwasher to enable easy access after installing the machine.
- Always follow the applicable regulations for water, drain and electrical connection.
- 7. A dishwasher fitted with a wired plug must be connected to an earthed socket.

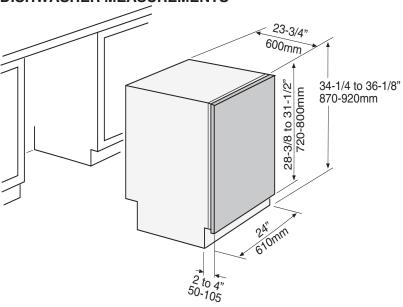
#### Caution!

Turn off the water supply when installing the dishwasher!

### Installation and connection information



#### **DISHWASHER MEASUREMENTS \***



With fill strips**			Without fill strips	
	H minimum **	H maximum	H minimum ***	H maximum
With toe kick (see Steep 7)	34-1/4", 870 mm	35", 890 mm	33-3/4", 860 mm	34-5/8", 880 mm
Without toe kick	34-1/4", 870 mm	36-1/8", 920 mm	33-3/4", 860 mm	35-3/4", 910 mm

<sup>\*</sup> With fill strips and without plastic feet.

<sup>\*\*</sup> ASKO XLFI dishwashers can be installed either with or without accessory fill strips depending on the type of installation. If the dishwasher cutout has been cut to European widths of 23-5/8" (600 mm), the unit won't require fill strips. If the dishwasher cutout is a standard 24" wide, we have fill strips that make the unit 24" (610 mm) wide.

<sup>\*\* \*</sup> Without plastic feet.

### Installation and connection information

#### WATER CONNECTION

- The machine can be connected to a cold or hot water supply (maximum 140°F, 85°C). However, we recommend connection to a cold water supply.
- The inlet pipe has a connector with either a 9/16" internal thread.

#### **ELECTRICAL CONNECTION**

120VAC mains voltage, minimum 15A.

#### **DRAINAGE**

 The supplied cone-shaped connector fits a drain connection with an internal diameter of 1/2, 5/8, 23/32 and 7/8 inches (13, 16, 18 and 22 mm).



 Use a hose clamp if connecting to a fixed drain (sink).

The connector is ready to cut to the desired drain connection size. Only a clamp is required.

#### **CABLE/HOSE LENGTHS**

Drain hose: 59 inches (1930 mm)
Supply hose: 64 inches (1670 mm)
Power cable: 45 inches (1770 mm)

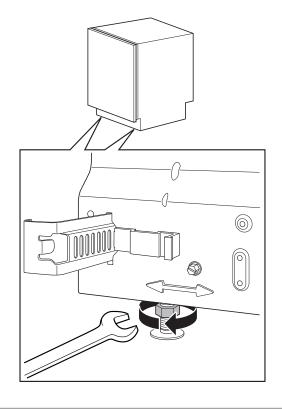
#### **TOOLS**

- 1) Flathead screwdriver
- 2) Open-ended wrench 5/8 inches (16 mm)
- 3) Tape measure
- 4) Spirit level

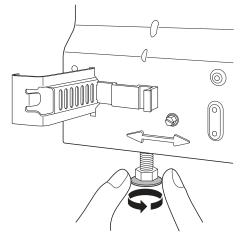


# Step 1. Fitting the dishwasher in place

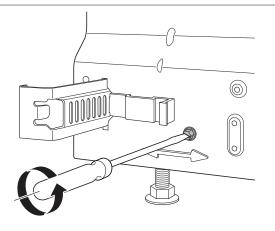
Loosen the lock nuts on the dishwasher's two front steel feet using a 5/8 inch (16mm) open-ended wrench. Screw the lock nuts down as close to the floor as possible.



2. Adjust the height of the dishwasher by turning the front steel feet with your hands. Leave enough space to adjust them later.



3. Screw in the back foot completely by turning the adjustment screw at the front counterclockwise. Use a flat-bladed or a 1/4 inch nut driver.

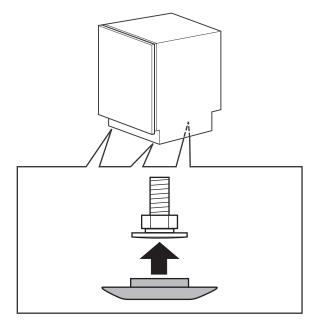


# Fitting the dishwasher in place

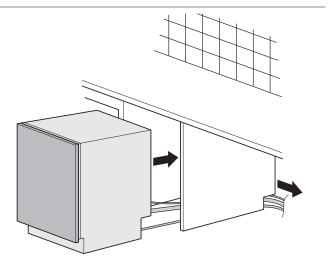
4. Push the plastic feet into place on all three steel feet (included in document bag).

#### Note:

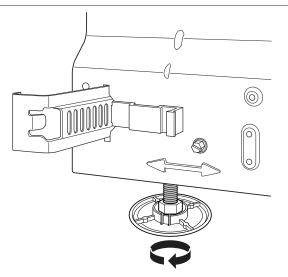
Do not attach the plastic feet if the installation space is of minimum height.



5. Push the dishwasher into the cabinet. At the same time, pull the electric cable and drain and supply hoses through the cable hole.



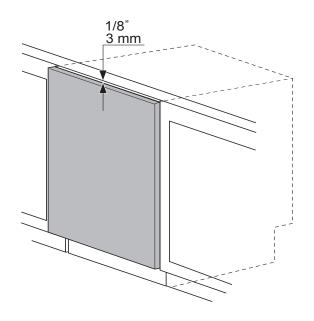
6. Lift the dishwasher a little at the front and turn the front feet to lower them.



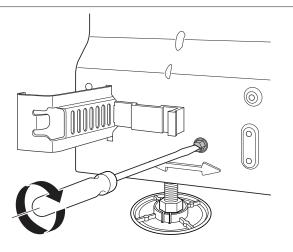
# Fitting the dishwasher in place

7. Check that there is a 1/8 inch (3mm) space between the top of the dishwasher door and the underside of the counter.

Do not attach the mounting screws. This will be done later.



8. Adjust the back foot by turning the adjustment screw at the front clockwise.

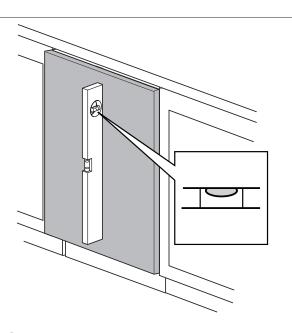


9. Place the spirit level on the dishwasher door to check that the machine is level and adjust if necessary. The door must be fully closed!

#### Note:

The dishwasher must be level!

A machine that is not level can affect the amount of water taken in and make the door difficult to close, and the baskets difficult to place securely.

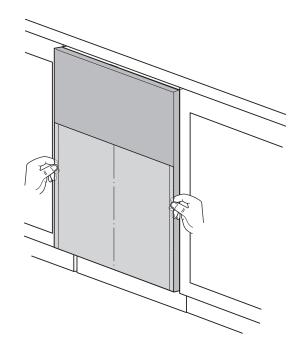


# Step 2. Attaching cover or wooden door

Follow the separate instructions supplied with the dishwasher to attach the chosen cover or wooden door to the front of the machine.

#### Note:

Once you have fitted the cover or wooden door to the dishwasher, the door springs may need adjusting. Check that the door stays in the position in which it is placed. If the door drops down when you open it, the springs need tightening. If the door shuts on its own, the springs need loosening. See step 3 for further instructions.



#### **MEASUREMENTS OVERVIEW - WOODEN DOOR**

**FULLY INTEGRATED MODELS** 

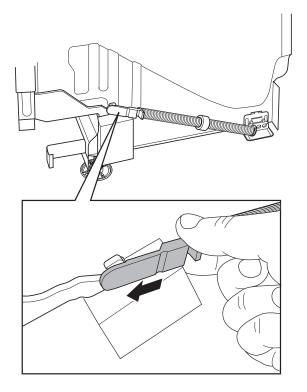
Width: 23-1/2 inches (596 mm) minimum to cabinet width minus 1/4 inch reveal

Height: 28-1/4 inches (720 mm) to 31-1/2 inches (800 mm)

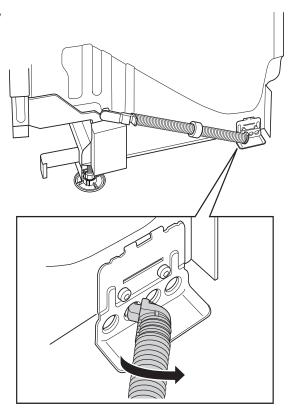
# Step 3. Adjusting the door springs

The door springs are on the sides of the dishwasher. If necessary, pull out the dishwasher and adjust the tension of the door springs. A good idea is to try adjusting one side only first.

- 1. Be sure the door is closed.
- 2. Grab the front end of the spring and pull it up and forward to release it from the forward mount.



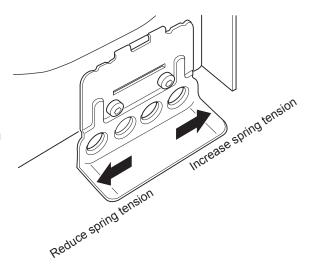
3. Loosen the spring from the rear mount by turning it outwards.



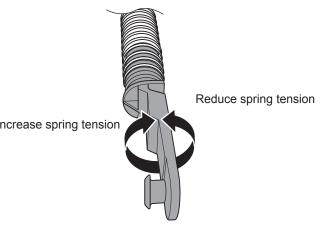
# Adjusting the door springs

 Adjust the spring tension using one of the following methods depending on how much adjustment is needed.

If you need to adjust the spring a lot, place the rear mount in another hole. Place the spring further forward to reduce the tension and further back to increase the tension.

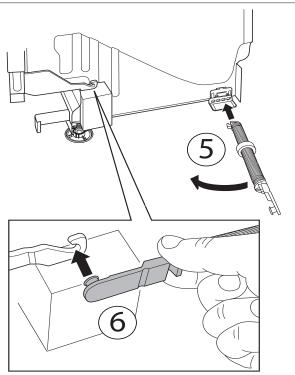


If you want to make small adjustments to the spring, hold the back end with one hand and turn the forward mount clockwise or anticlockwise one or more times. Turn the mount clockwise to increase spring tension and anticlockwise to reduce spring Increase spring tension tension.



- 5. Replace the back end of the spring by holding the spring at a right angle to the side of the dishwasher and pushing the end of the spring into the hole, then turning the spring in towards the dishwasher.
- Reattach the front end of the spring by pulling it up and forward to fasten it in the mount.
- 7. Open the door and check the spring tension again. If necessary, make further adjustments as above.

Stronger door springs are available for purchase for dishwashers fitted with a cover door. Springs are available for various weights and sizes of door. Door springs can be purchased from the retailer who sold you the dishwasher.



### Step 4. Connecting electricity, water and drain

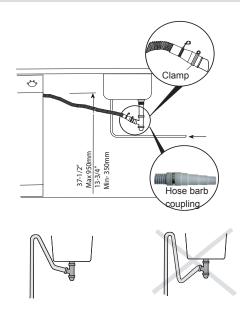
#### 1. Connect drain hose

The drain hose is routed to an inlet plug on the sink unit's water trap.

Cut the drain hose adapter to the appropriate size for connection to the undersink drain or garbage disposer. The overall length of the drain hose must not exceed 14 feet 9 inches.

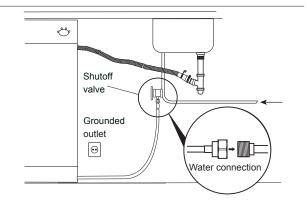
No part of the drainage hose may be more than 37-1/2 inches (950 mm) above the bottom of the dishwasher. The hose must not be run directly to the floor drain or similar.

The hose must always discharge at least 13-3/4 inches (350 mm) above the bottom of the dishwasher.



#### 2. Connect water supply hose

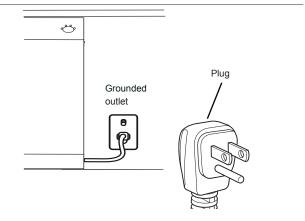
Use the supplied O ring and tighten the connection by hand plus a quarter turn with a wrench. Open the shutoff valve and let the pressure settle for a while. Check the connections again to make sure they are not leaking.



#### 3. Connect the plug

Ensure that the power outlet is within the range of the power cable. Do not use an extension cord!

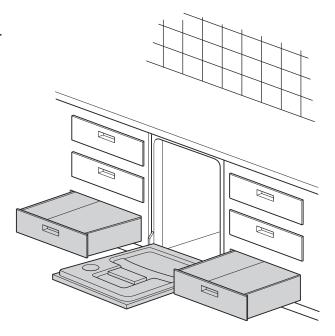
The dishwasher must be connected to a grounded outlet.



# Step 5. Checking dishwasher function and fit

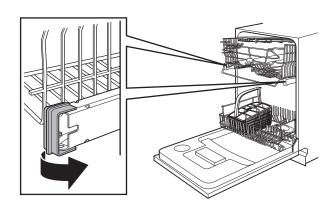
Test the dishwasher with the rinse programme. Check that the dishwasher takes in water and drains. Also check that none of the connections leak.

Also check that adjacent drawers and cupboards can be opened when the dishwasher door is open.

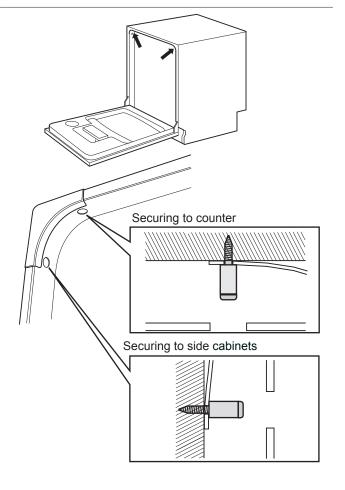


#### Step 6. Securing the dishwasher

- 1. Pull out the upper basket, and the center basket if present, and turn the basket stop on the runner outward.
- 2. Remove the upper basket, and the center basket if present, by pulling the basket(s) out as far as possible. This is to make more space available during installation.
- 3. Remove the lower basket. Otherwise it easily rolls out if you need to adjust the dishwasher during installation.

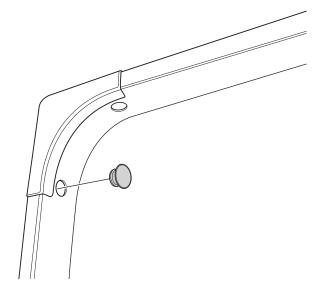


4. Screw the dishwasher to the counter from the inside or to the cabinets on either side. If the counter is a hard material, such as marble, screw the dishwasher to the side cabinets. Use the supplied plastic spacers when screwing the dishwasher into place!

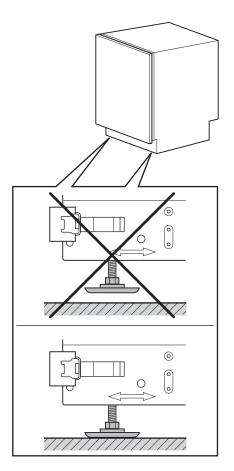


## Securing the dishwasher

5. Cover the screw holes on the sides with the supplied plastic plugs. Push in the plugs diagonally to fit them in place.

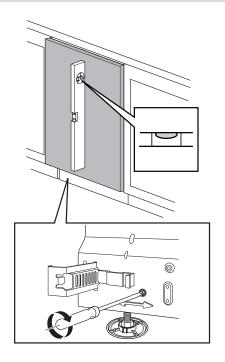


 Check that the dishwasher's two front steel feet are solidly placed on the floor, that is, the dishwasher is not hanging in the air. Otherwise turn the front feet to lower them.

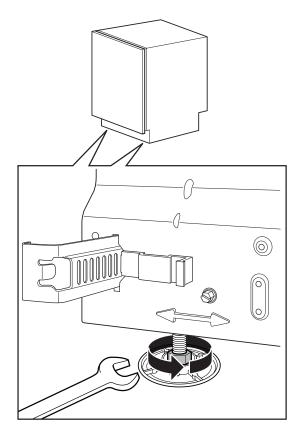


# **Securing the dishwasher**

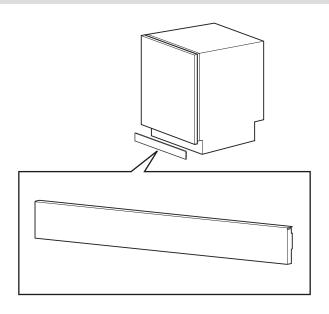
Also adjust the rear foot if necessary so that the dishwasher is level.



7. Tighten the mounting screws on the front feet with a 5/8 inch (16 mm) open-ended wrench.

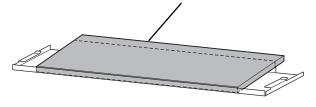


## Step 7. Attaching the toe kick (if applicable)

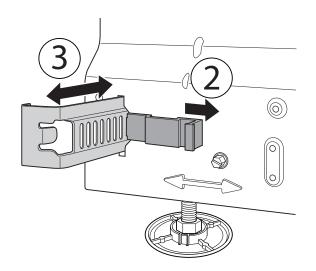


1. Attach the supplied sound insulation material to the back of the toe kick.

Adjust the height of the insulation material

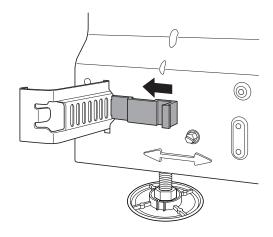


- 2. Loosen the holders for the toe kick by moving the gray catches to the side.
- 3. Adjust the holders (pull out or push in) until they are on a level with the surrounding kitchen toe kick.

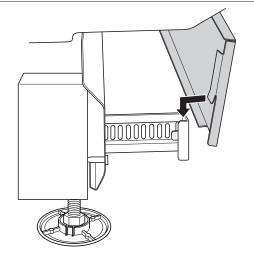


## Attaching the toe kick (if applicable)

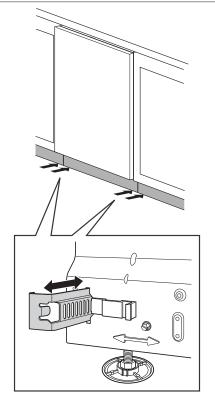
4. Lock the holders in place by pushing each catch into a suitable notch in the holder.



5. Hang the toe kick on the holders.



Check that the toe kick is in line with the surrounding kitchen toe kick, that is, at the same depth. Loosen and adjust the holders as necessary until satisfied.



#### Service and guarantee

# Asko Appliances Inc. will not pay for:

- 1. Service calls to:
- Correct the installation of the appliance.
- Repair damage due to shipment, delivery, installation, misuse or abuse.
- Instruct how to use the appliance.
- Replace house fuses or correct house wiring.
- Correct house plumbing, including drainage problems related to improper installation.
- Clean or service air device in drain line.
- 2. Repair and/or replacement parts for failure of product if appliance is used for other than home/residential use.
- 3. Damage resulting from accident, fire, floods, acts of God, alteration, misuse, abuse, improper installation, or installation not in accordance with local electrical or

plumbing codes.

- 4. Any shipping costs for parts during the limited warranty period.
- 5. Replacement parts or repair labor costs for units operated outside the continental United States.
- 6. Pickup and delivery. ASKO washers are designed to be repaired in the home.

# In no event shall Asko Appliances Inc. be responsible for any incidental or consequential damages.

Some states will not allow the exclusion or limitation of incidental or consequential damages, so this exclusion or limitation may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

It is important to register your product warranty by logging onto www.askousa.com/customercare/registration and filling out all required fields within 90 days from the date of purchase. After doing so, you will be e-mailed a certificate that will extend the original warranty for one additional year. If you do not have access to the in ternet, complete the warranty card included with the product and mail it to the address on the warranty card within 90 days of the date of purchase. Cosmetic damage must be reported to your dealer within five days from the date of purchase. After unpacking the washer, thoroughly check the unit for cosmetic damage.

For residential installations only	Asko Appliances Inc. will pay for:
Length of warranty Two-Year Full From date of purchase.	ASKO replacement parts and/or repair labor to correct defect in materials or workmanship. Service must be provided by an authorized ASKO service agent.
Third year full Complete your product warranty registration online at www.askousa.com/customercare/registration within 90 days from the date of purchase to extend the original warranty one additional year. If you do not have access to the internet, complete the warranty card included with the product and mail it to the address on the warranty card within 90 days of the date of purchase.	ASKO replacement parts and/or repair labor to correct defect in materials or workmanship. Service must be performed by an authorized ASKO service agent.

For residential installations only	Asko Appliances Inc. will pay for:			
Lifetime	ASKO replacement parts (labor cost not included) for the stainless steel tank if it exhibits a manufacturing defect such as cracking or rusting through. Service must be provided by an authorized ASKO service agent.			
For non-residential installations One-year Full Warranty from date of purchase.	ASKO replacement parts and/or repair labor to correct defect in materials or workmanship. Service must be provided by an authorized ASKO service agent.			

For warranty service, contact our Customer Care Center at the number listed below. Before calling for service or contacting Asko Appliances Inc. regarding a warranty issue, make a note of the model, type name, and serial number.

Write to us at:
Asko Appliances Inc.
P.O. Box 940609
Plano, TX 75094-0609

Or contact our Customer Care Center at 1-800-898-1879 www.askousa.com

# **Installation checklist**

#### **ASKO - DISHWASHER**

Appliance Installation Checklist	
Remove packaging and check for cosmetic damages.	
Remove the information packets from inside the dishwasher.	
<ul> <li>Attach any accessories as required by the installation. Fill strips, wooden door panels, accessory door panels</li> </ul>	
<ul> <li>Attach the drain line using the largest section of the disposer boot allowable. Leave the high loop in place.</li> </ul>	
Attach the PEX fill hose. Don't forget to use the O-ring.	
Plug the dishwasher into the wall.	
• Turn on the water and check the fill line connections for leaks.	
<ul> <li>Slide the unit into the cabinet and level the machine front to rear, and left to right.</li> </ul>	
• Mount the unit to the cabinet.	
<ul> <li>Turn the power to the unit on and start a cycle. Make sure there are no drain leaks.</li> </ul>	
<ul> <li>Show the customer their warranty card, and help them locate the model and serial number on the unit.</li> </ul>	
• Leave all user books for consumer.	

## **Own comments**

#### **Quick Guide**

1. Load the baskets correctly!

Thanks to the Self Cleaning System you don't need to rinse the dishes, simply scrape large food particles and debris.

2. Dispensing dishwasher detergent

The detergent compartment has a small compartment for pre-wash and one for main wash.

- 3. Ensure that the spray arms can rotate freely
- 4. Turn on the main power switch
- 5. Close the door
- 6. Select the program and press start

For normally soiled dishes, use the Normal Wash program  $\stackrel{\square}{\Longrightarrow}$  with Normal temperature  $\stackrel{\square}{\Longrightarrow}$  and Normal drying  $\stackrel{\square}{\Longrightarrow}$ .

To save more water and energy use Economy temperature and Economy dry.

#### **Mini Program Guide**

Programview								
Programs	Daily	Heavy	Normal	Delicate	Quick	Rinse & Hold		
Program info	A program suitable for daily dishes. The program can also deal with dried food, though the short prewashes are not designed for burnt food.	For heavily soiled loads, such as pots, pans, casseroles, etc.	For nor- mally soiled loads such as plates, glasses, bowls, and lightly soiled pans.	For glass and china which has just been used and therefore does not need such a powerful program.	For lightly soiled loads that are washed immediately after use. This program can also be used for delicate items.	To rinse dishes that you plan to wash later that day.		
Options	₿°	₽°SSS	身°SSS	₽°	<b>∄° </b> \$\$\$			
Prewashes with SCS*	3 prewashes	2 prewashes	2 prewashes	1 prewash- es				
Mainwash ***	150°F	130°F	150°F	120°F	140°F			
Number of rinses	3, last rinse 140°F	3, last rinse 160°F	2, last rinse 160°F	2, last rinse 120°F	2, last rinse 140°F	1 rinse		

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Customer Care Center