

BREDA

Operating instructions

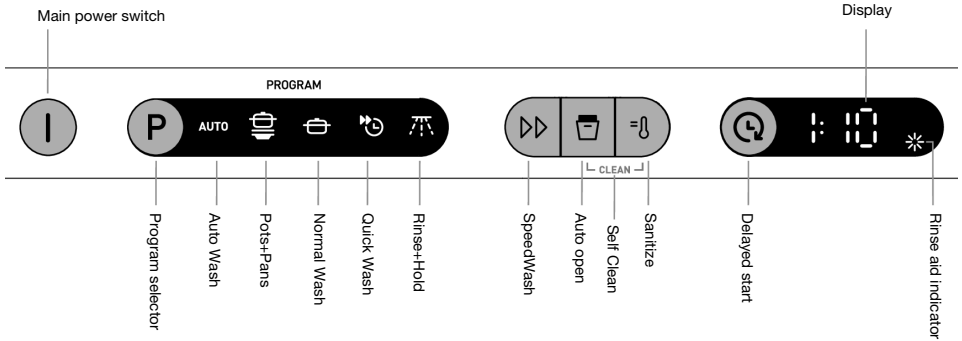
Dishwasher
LUDWA30155

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Your dishwasher



Install the dishwasher, see the chapter Installation instructions. Following this, open the door and press the main power switch to start using the machine.

The first time the dishwasher is switched on, it is important that you choose the right settings to ensure good dishwashing results. See the chapter Before washing for the first time.

Important safety instructions

SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE



WARNING!

When using your dishwasher, follow basic precautions, including the following:

- Read all instructions before using the dishwasher.
- Use the dishwasher only for its intended function.
- Use only detergents or wetting agents recommended for use in a dishwasher and keep them out of the reach of children.
- When loading items to be washed:
 - locate sharp items so that they are not likely to damage the door seal, and
 - load sharp knives with the handles up to reduce the risk of cut-type injuries.
- Do not wash plastic items unless they are marked “dishwasher safe” or the equivalent. For plastic items not so marked, check the manufacturer’s recommendations.
- Do not operate the dishwasher unless all enclosure panels are properly in place.
- Do not tamper with controls.
- Do not abuse, sit on, or stand on the door or dish rack of the dishwasher.
- 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.
- Remove the door to the washing compartment when removing an old dishwasher from service or discarding it.
- Read the grounding instructions in the installation instructions.

General

- Do not run the dishwasher while you are out of the home.
- 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.

NSF/ANSI 184 certified residential dishwashers are not intended for licensed food establishments.



WARNING!

Only sanitizing cycles have been designed to meet the requirements of NSF/ANSI 184 for soil removal and sanitization efficacy. There is no intention, either directly or indirectly, that all cycles on a certified machine have passed the sanitization performance test.



WARNING!

PROPOSITION 65 FOR CALIFORNIA RESIDENTS

Cancer and Reproductive Harm – www.P65Warnings.ca.gov

Child safety

- Always keep small children away from the machine when it is open. There may be some detergent residue left inside the machine.
- Always close the door and start the dishwasher as soon as you put in the detergent.
- If dishwasher detergent gets in someone's eyes, rinse them with plenty of water for at least 15 minutes.
- 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.



WARNING!

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

Installation

See the chapter Installation instructions.

Winter storage/transport

Store the dishwasher above freezing and avoid long transport distances in very cold weather. Transport the dishwasher upright or laying on its back.

Overflow guard function

The overflow guard starts pumping out the machine and turns off the water supply if the water level in the dishwasher exceeds the normal level. If the overflow guard is triggered, F54 appears on the display. Turn off the supply pipe and contact your nearest Customer Care Center. (To avoid water leakage outside the dishwasher, do not remove the plug from the power outlet until the supply pipe has been turned off!)

Packing material

The outer packaging protects the product during transport. The packaging material is recyclable. Separate the different packaging materials to help reduce raw material use and waste. Your dealer can take the packaging for recycling or direct you to the nearest recycling center. The packaging is comprised of:

- Corrugated cardboard made from up to 100% recycled material.
- Expanded polystyrene (EPS) with no added chlorine or fluorine.
- Supports made from untreated wood.
- Protective plastic made from polyethylene (PE).

Disposal

The dishwasher is manufactured and labeled for recycling.

When the machine has reached the end of its service life and is to be disposed of, it should immediately be made unusable. Pull out the power cable and cut it as short as possible.

Contact your municipality for information about where and how your dishwasher can be recycled correctly.

Before washing for the first time

Water hardness

In order to achieve good dishwashing results, the dishwasher needs soft water (water with low mineral content). Hard water leaves a white coating on dishes and the dishwasher.

Checking water hardness

Contact the local water utility to check the water hardness in your area. This is important to determine how much detergent and rinse aid to use.

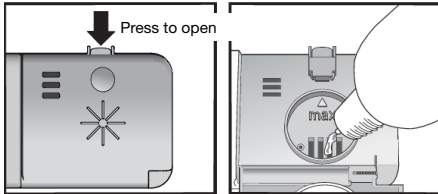
In general, more rinse aid and detergent are needed for hard water.

Set the Rinse aid

The chapter Settings describes how to set the rinse aid dosage.

* Top up with rinse aid

Use rinse aid to improve wash and dry times. Also use rinse aid to achieve clear and spotless results.



1. Open the rinse aid compartment lid.
2. Carefully top up with rinse aid to the level marked **max**.
3. Wipe up any spilled rinse aid around the compartment.
4. Close the lid firmly.

Greener dishwashing

The dishwasher saves energy and water

When using a dishwasher in a residential setting, less energy and water are generally used compared to washing the dishes by hand.

Do not rinse under running water

Do not rinse the dishes under running water as this will lead to increased energy and water consumption. Simply scrape off large food particles before loading the dishwasher.

Choose a green detergent

Read the environmental declaration on the packaging!

Too much detergent and rinse aid can result in less effective dishwashing and lead to a greater environmental impact.

Run a fully loaded dishwasher

Save energy and water by waiting until the dishwasher is full before running a program

Run programs at a lower temperature

If the dishes are only lightly soiled, you can select a program with a low temperature.

Select option – Auto open

Better drying results are achieved if you use the Auto open option, which automatically opens the dishwasher door. Wait until the dishwasher indicates that the program has ended and the dishes have cooled before unloading the dishwasher. (If the dishwasher is built-in, the surrounding furnishings must be resistant to any condensation from the dishwasher.)

Connect to cold water

Connect the dishwasher to the cold water supply if the building is heated using oil, electricity, or gas.

Connection to hot water supply

Connect the dishwasher to the hot water supply (max. 160 °F (70 °C)) if the building is heated using an energy-efficient means such as district heating, solar power, or geothermal power. Choosing a hot water connection cuts dishwashing times and reduces the dishwasher's energy consumption.

NOTE!

Do not exceed the permitted water supply temperature. Certain materials used in some cookware cannot withstand strong heat.

Loading the dishwasher

Fragile dishes

Some cookware is not dishwasher safe. This can be for several reasons. Some materials cannot withstand high temperatures, others can be damaged by dishwasher detergent.

Use caution with, for example, handmade items, fragile decoration, crystal/glassware, silver, copper, tin, aluminum, wood, and plastic. Look for the "Dishwasher safe" marking.

Loading affects the results

Load the dishes carefully to ensure the best washing and drying results with the lowest possible energy and water consumption. Give your dishwasher the best chance to reach and clean all surfaces, as well as to dry the dishes as thoroughly as possible.

- All dirty surfaces should face in and down!
- Dishes should not be placed in or on each other.
- Angle dishes with hollows, such as cups, so that the rinse water will run off. This is also important for plastic items.
- Place the upper basket in its highest position when dishwashing very large plates.
- Make sure small items cannot fall through the dishwasher basket; place them in the cutlery basket.



NOTE!

Check that the spray arms can rotate freely.

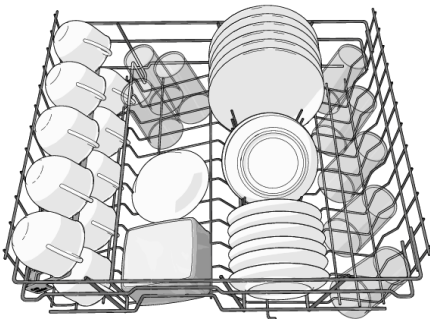
The baskets

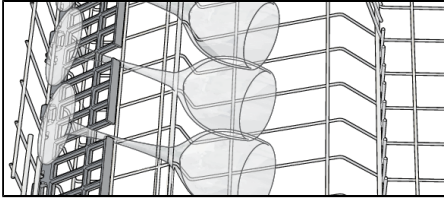
The dishwasher includes an upper, a lower, and a cutlery basket.

The basket appearance may differ depending on the configuration.

Upper basket

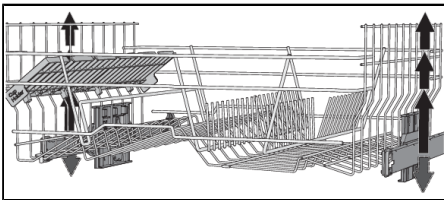
Place glasses, cups, bowls, side plates, and saucers in the upper basket. Place all soiled surfaces face down! Place wine glasses on the wine glass shelf. Place knives in the knife stand on the right (if space allows).





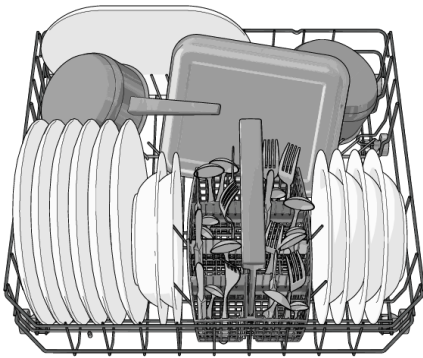
Raising and lowering the upper basket

1. Pull out the upper basket.
2. Grab the sides of the upper basket with both hands and lift it up.
3. Repeatedly lift the basket with both hands to change its position. (The upper basket can be set in three positions.) When the upper basket is in the highest position, lifting it will return it to the lowest position. Note that both sides of the basket must always be set to the same height.



Lower basket

Place plates, side plates, serving dishes, pots, and cutlery (in the cutlery basket) in the lower basket.

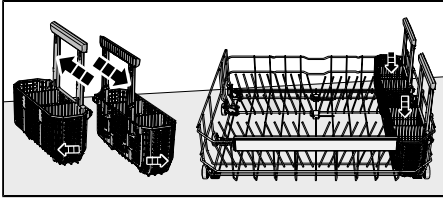


Cutlery basket

Place cutlery with the handles facing down, except for knives, and spread them out as much as possible. Ensure that spoons do not stack inside each other.

Place the cutlery basket in the lower basket.

Flexible cutlery basket

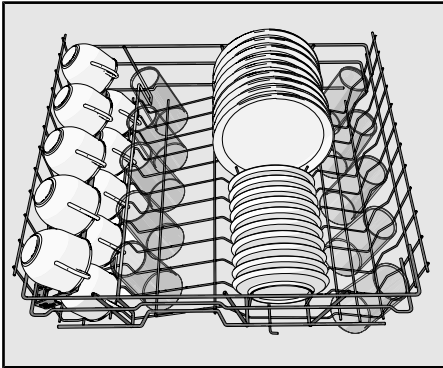


The cutlery basket is flexible and can be separated into two parts, which can then be attached to the side of the lower basket.

Typical load

Recommended for daily, regular, or typical use.

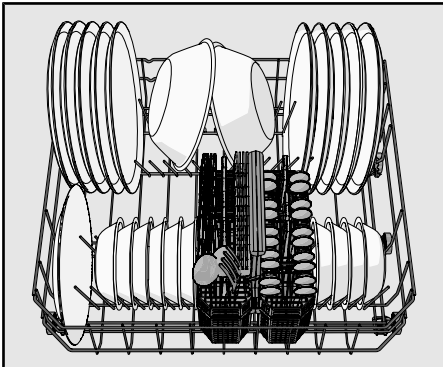
Upper basket



NOTE!

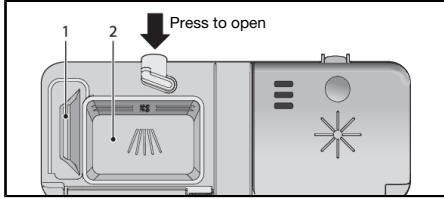
Ensure the upper basket is set to its lowest position.

Lower basket



Using the dishwasher

Add detergent



1. Prewash detergent compartment
2. Main wash detergent compartment

Detergent is added according to water hardness.

Follow the instructions on the detergent packaging.

Too much detergent can result in less effective dishwashing and also entails greater environmental impact.

The detergent compartment must be dry when adding detergent. There is one compartment for the prewash and one for the main wash. If powder or liquid dishwasher detergent is used, add a small amount of the detergent to the prewash compartment. Contact the detergent manufacturer if you have questions about the detergent.



NOTE!

Use only dishwasher detergent! Liquid hand-washing detergent must not be used as the foam that forms prevents the dishwasher from operating effectively.

Dishwasher tablets

Halve the tablet if it is difficult to close the dispenser lid. There is a risk that the detergent will not be released properly if the lid is tight and cannot open correctly.



NOTE!

Dishwasher tablets are not recommended for short programs (less than 75 minutes). Use powder or liquid dishwasher detergent instead.

All-in-one detergent

There are many types of all-in-one detergents on the market. Read through the directions for these products carefully.

If the detergent tablets contain rinse aid, the dishwasher's rinse aid dosing can be deactivated. See the chapter Settings.



NOTE!

Optimal washing and drying results are achieved by using normal dishwasher detergent together with separately dispensed rinse aid.



The main power switch

Press and hold the main power switch until the display turns on. Also check that the water supply valve is on.

P PROGRAM - Select program

Press the Program selector one or more times until the desired program symbol is activated.

AUTO Auto Wash

The dishwasher can measure how dirty the dishes are and adjust water consumption and temperature accordingly. When newly installed, the program needs to be run five times before it is fully adapted and can provide the best results.

AUTO + >> + 🗑️ QuickIntensive¹⁾

QuickIntensive (Auto Wash + SpeedWash + Auto open) is an effective program for slightly dried leftovers. (This program is not intended for burnt food, such as on oven dishes.)



Pots+Pans

A program with a high temperature to dissolve grease on heavily soiled dishes, such as pans, casserole dishes, and oven dishes. If these dishes do not completely fill the dishwasher, you can add plates and other dishes.

Combine the Pots+Pans program with the Sanitize option to meet the performance requirements of the NSF/ANSI 184 standard.



Normal Wash

This program is recommended for daily, regular, or typical use to completely wash a full load of normally soiled dishes, such as plates, serving dishes, cups, and glasses.



Quick Wash

This program is used for glasses and porcelain that is lightly soiled, such as coffee cups.

In combination with SpeedWash, a shorter program is achieved (15 minutes).



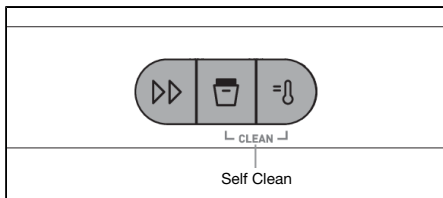
Rinse+Hold

Use to rinse dishes while you wait for the dishwasher to become fully loaded.

CLEAN Self Clean

Self-cleaning program for sanitizing the dishwasher tub, spray arms, and spray pipes.

This program should be run (with no dishes in the machine) using regular dishwasher detergent or citric acid. Special dishwasher cleaners are also available in stores. For the removal of limescale deposits, see Dishwasher tub in the chapter Care and maintenance instructions.



Press and hold the option buttons for Self Clean to activate the program. Self Clean starts when the door is closed.

¹⁾ Program time 90 minutes.

- Select option

To select an option, press one of the option buttons until the option is activated. The available options vary between programs and some options cannot be combined (available options glow dimly).

SpeedWash

This option shortens the program time, but uses more energy and water.

Auto open²⁾

The dishwasher door opens automatically, which improves the drying results. Wait until the dishwasher indicates that the program has ended and the dishes have cooled before unloading the dishwasher. (If the dishwasher is built-in, the surrounding furnishings must be resistant to any condensation from the dishwasher.)

The drying time for the Auto open option varies between programs.

NOTE!

For the best drying results, do not close the door before the drying phase has finished and the machine has automatically switched off.

WARNING!

The dishwasher door must not be blocked or closed when opened automatically. Doing so may damage the door lock mechanism. Wait at least 5 minutes before closing the door.

Sanitize

This option is intended for items with particularly high sanitation requirements, such as baby bottles and cutting boards. The temperature is increased in both the main wash and the final rinse.

Sanitize has been developed to be combined with the Pots+Pans dishwashing program. The program meets the requirements of the NSF/ANSI 184 standard.

NOTE!

If the program is run in compliance with the NSF/ANSI 184 standard, "End" is shown on the display and the Sanitize option button lights when the program has finished.

Delayed start

When you select Delayed start, the dishwasher will start 1-24 hours after you close the door.

1. Press the button once to activate Delayed start. Press the button several times – or hold it in – to set the desired number of hours.
2. Close the door and the dishwasher display counts down 1 hour at a time and starts after the selected delay.

If you want to cancel the Delayed start option, open the door and press and hold the main power switch until the display turns off.

Starting the dishwasher

Press and hold the Program selector until it starts to flash. Close the door within four seconds to start the dishwasher.

²⁾ The Auto open option is pre-selected for some programs.

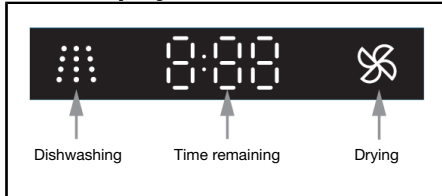
- Time remaining

Once you have chosen a program and options, the time the program took when last used is displayed.

Once you have started the dishwasher, the display shows the remaining program time. The remaining time is updated after the water for the final rinse has been heated.

This may differ somewhat from time to time depending on the temperature of the water supply, the amount of dishes, the ambient temperature, and other factors.

Front display



Stopping or changing a program

If you want to change the program after starting the dishwasher, open the door then press and hold the main power switch until the display turns off. Add more detergent if the lid of the detergent dispenser has opened. Then press the main power switch again to choose a new program.

WARNING!

The dishwasher door must not be open while a program is in progress. If the door is open, "STR" is shown on the display. If you want the dishwashing program to continue, press the Program selector and close the door immediately. If you want to cancel the dishwashing program, press and hold the main power switch until the display turns off.

If the dishwasher is turned off due to a power failure

If the program was not finished, the interrupted program resumes when power is restored.

NOTE!

During drying, the program is interrupted if the power is cut or the door is open for more than 2 minutes.

Once the program has finished

Once the program has finished, "End" appears on the display.

The dishwasher switches off automatically after the program ends.

To minimize the risk of leaks, we recommend that you turn off the water supply valve if away from home for an extended period of time.

How to get the best drying results

- Fully load the dishwasher.
- Angle dishes with hollows, such as cups, so that the rinse water will run off. This is also important for plastic items.
- Top up with rinse aid or increase the rinse aid dosage level.
- Activate the Auto open option.

- Allow the dishes to cool before unloading the dishwasher.

Unloading the dishwasher

Hot porcelain is more fragile. Leave the dishes to cool in the dishwasher before unloading them.

Unload the lower basket first to avoid any water drops from the upper basket falling onto the dishes in the lower basket.

Program chart

PROGRAM - Program	Detergent, compartment 1 / 2 (ml)	- Options	Prewashes	Main wash	Number of rinses	Final rinse	Consumption values ¹⁾		
							Dishwash- ing time (approx. hrs:min)	Energy (approx. kWh)	Water cons. (gal- lon) ²⁾
Auto Wash	--- / 25	Auto open	2-3	50-65 °C 120-150 °F	2-3	65 °C 150 °F	2:40-3:15	1.0-1.6	3.7-5.3
Pots+Pans	10 / 25		2	70 °C 160 °F	2	65 °C 150 °F	3:25	1.7	4.5
Normal Wash ³⁾	--- / 25	Auto open	3	50 °C 120 °F	2	65 °C 150 °F	2:15	1.20	3.49
Quick Wash	--- / 10			35 °C 95 °F	1	25 °C 80 °F	0:20	0.2	2.6
Rinse+Hold	--- / ---				1		0:07	0.01	0.8

¹⁾ Consumption values vary depending on the temperature of the incoming water, room temperature, load size, selected additional functions, and more.

²⁾ Connection to cold water, approx. 50 °F (10 °C). (A cold water supply is recommended.)

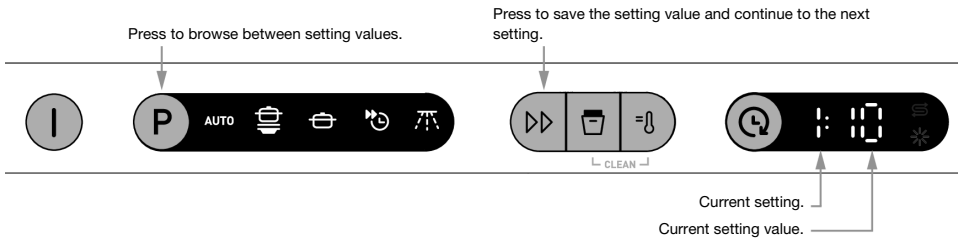
³⁾ The energy label performance figures are based on this program. This program is recommended for daily, regular, or typical use to completely wash a full load of normally soiled dishes, such as plates, serving dishes, cups and glasses.

Settings

Open the settings menu:

- 1 First, open the door. Turn off the machine. Press and hold the main power switch until the display lights up.
- 2 Within 10 seconds:
 - press and hold the Program selector and the SpeedWash option button until the settings menu opens.
- 3 The display shows the settings menu (current setting and its currently set value). (Exit the menu by browsing through the menu or pressing the main power switch.)

Navigate the settings menu:



You can now adjust the following settings:

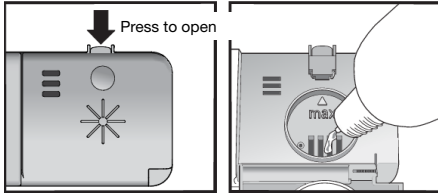
Settings	Options													
1 Rinse aid	1:00 - 1:05	<p>Rinse aid dosage setting.</p> <table border="1"> <tr> <td>00 (Off)</td> <td>Very soft water</td> </tr> <tr> <td>01</td> <td>Soft water</td> </tr> <tr> <td>02</td> <td>Soft water</td> </tr> <tr> <td>03</td> <td>Medium hard water</td> </tr> <tr> <td>04</td> <td>Hard water</td> </tr> <tr> <td>05</td> <td>Very hard water</td> </tr> </table> <p>Increase the rinse aid dosage:</p> <ul style="list-style-type: none"> • If the dishes have water marks. <p>Reduce the rinse aid dosage:</p> <ul style="list-style-type: none"> • If the dishes have a sticky white/blue film. • If the dishes are streaked. • Heavy foaming. If you have very soft water, the rinse aid can be diluted 50:50 with water. <p><i>Pre-selected at factory: 05</i></p>	00 (Off)	Very soft water	01	Soft water	02	Soft water	03	Medium hard water	04	Hard water	05	Very hard water
00 (Off)	Very soft water													
01	Soft water													
02	Soft water													
03	Medium hard water													
04	Hard water													
05	Very hard water													

Care and maintenance instructions

✱ Top up with rinse aid

When the rinse aid needs topping up, the above symbol lights on the display.

After topping up, it may take a while before the symbol goes out.

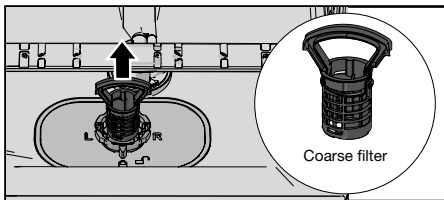


1. Open the rinse aid compartment lid.
2. Carefully top up with rinse aid to the level marked **max**.
3. Wipe up any spilled rinse aid around the compartment.
4. Close the lid firmly.

Cleaning the filters

Coarse filter

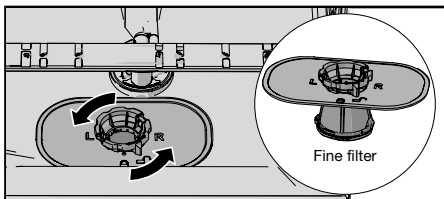
The coarse filter traps larger food particles, which cannot get past the drain pump. Empty the coarse filter when necessary. It should be cleaned at regular intervals depending on how often the dishwasher is used.



1. Lift the coarse filter by the handle.
2. Empty the coarse filter.
3. Refit the coarse filter. Press it down until it clicks into place.

Fine filter

Debris that collects on the fine filter is automatically rinsed away during each wash. Clean the fine filter when necessary. It should be cleaned at regular intervals depending on how often the dishwasher is used.



1. Turn the locking ring counterclockwise and lift the fine filter straight up.
 2. Clean the fine filter.
 3. Refit the fine filter and turn the locking ring clockwise to its stop position. Check that the edges seal properly.
- Remember to refit the coarse filter!

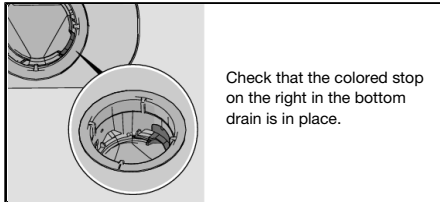


NOTE!

Dishwashing results may be affected if the coarse and fine filters are incorrectly fitted. The dishwasher must not be used without the filters in place!



NOTE!

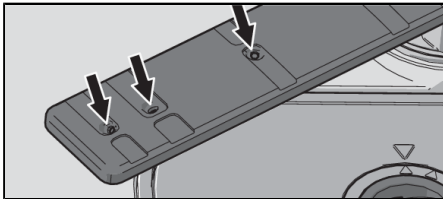


NOTE!

Dishwashing results may be affected if the coarse and fine filters are incorrectly fitted. The dishwasher must not be used without the filters in place!

Cleaning the spray arms

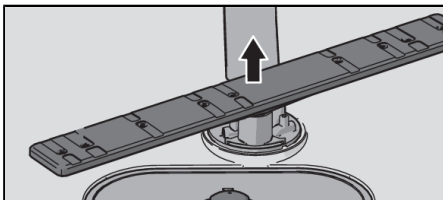
Holes and bearings can become blocked. Remove debris using a needle or similar item. The spray arms have holes on the bottom.



Spray arms can be removed for cleaning. Remember to fit them firmly back into place afterward.

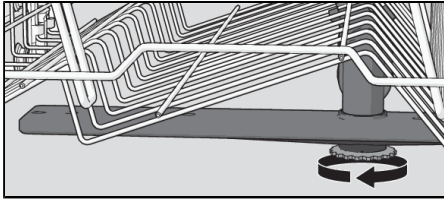
Lower spray arm

- Pull the lower spray arm straight up to release it.



Upper spray arm

1. Pull out the upper basket.
2. Unscrew the spray arm bearings counterclockwise to remove the spray arm from the upper basket.



Clean the dishwasher inside and out

Door and door seal

Open the door. Clean the sides of the door and the door seal regularly with a slightly damp cloth. Clean the door seal at the lower front edge of the dishwasher with a washing-up brush.

Display and buttons

Keep the display and the buttons clean. If necessary, wipe them with a dry or slightly damp cloth. Never use cleaning products – they may scratch the surface.

Use the main power switch to switch off the dishwasher when cleaning the buttons to avoid activating them inadvertently.

Dishwasher tub

The dishwasher tub is made of stainless steel and is kept clean through normal use (when used regularly).

If you have hard water, limescale deposits may build up in the dishwasher. If this happens, run the Self Clean program with two tablespoons of citric acid in the detergent compartment (with no dishes in the machine). Special dishwasher cleaners are also available in stores.

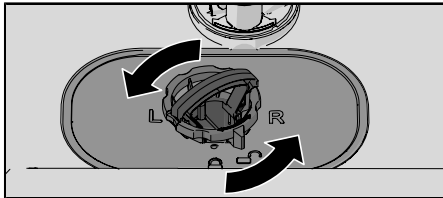
Use citric acid or commercially available dishwasher cleaner.

Remove blockages

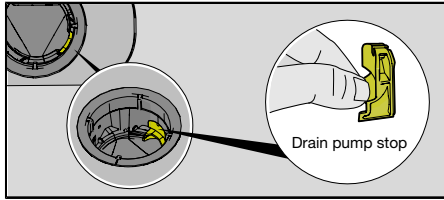
Unblocking the drain pump

If the dishwasher still contains water after the program has finished, something may be blocking the drainage pump. Such blockages are easily removed.

1. Turn off the machine using the main power switch and unplug it from the power outlet.
2. Remove the coarse filter and the fine filter.



3. Scoop out the water from the dishwasher tub.
4. In order to inspect the drain pump, remove the colored stop on the right in the bottom drain.



5. Turn the pump wheel located behind the drain pump stop by hand. Carefully remove any items.
6. Reinstall the drain pump stop along with the fine and coarse filters.
7. Plug the machine in again.

If the dishwasher still does not start and a humming sound is heard, the overflow protection has been triggered.

- Shut off the water.
- Unplug the unit from the power outlet.
- Call the Customer Care Center.



NOTE!

Do not forget to reinstall the drain pump stop.

Troubleshooting

Type of fault on the display		Action
F10	Overfilling	Clear the drain pump. See the chapter Care and maintenance instructions. If the problem persists, call the Customer Care Center.
F11	Water outlet fault	See "Water remains in the dishwasher above the filters" in the table "Problem" below. If the problem persists, call the Customer Care Center.
F12	Water inlet fault	Check that the water supply valve is on. If the problem persists, call the Customer Care Center.
F40	Inlet valve leakage	Turn off the water supply valve and call the Customer Care Center.
F52	Water level fault	Clean the coarse and fine filters. If the problem persists, call the Customer Care Center.
F54	Overfilling	Turn off the water supply valve and call the Customer Care Center. To avoid water leakage outside the dishwasher, do not remove the plug from the power outlet until the supply pipe has been turned off!
F56	Circulation fault	Call the Customer Care Center.
F67	Water inlet fault	Check that the water supply valve is on. If the problem persists, call the Customer Care Center.

Press any button to clear the error message.

Problem	Possible causes	Action
The buttons do not react when pressed.	You have pressed the buttons too soon after opening the door.	Wait a moment then try again.
	The buttons are dirty.	Clean with a dry or slightly damp cloth.
	The door is closed.	Open the door. The buttons only react to use when the door is open.
Cannot close door.	The baskets are not correctly positioned.	Check that the baskets are correctly positioned horizontally. Check that the dishes are not blocking the baskets from sliding properly into place.
	The door lock does not click into place and lock.	Check the door lock. If it does not click into place and lock, open the door. Press and hold the button for the Auto open option until the button starts flashing. Wait until it stops flashing (60 seconds). Close the door. Check that the door lock clicks into place and locks.

Problem	Possible causes	Action
The dishwasher does not start.	The door is not closed properly or was not closed immediately after starting the program.	Close the door within four seconds, otherwise the dishwasher will not start. See Starting the dishwasher in the chapter Using the dishwasher.
	The door lock has not clicked into place and locked.	Check the door lock. If it does not click into place and lock, open the door. Press and hold the button for the Auto open option until the button starts flashing. Wait until it stops flashing (60 seconds). Close the door. Check that the door lock clicks into place and locks.
	A fuse/circuit breaker has been tripped.	Check.
	The plug is not plugged into the power outlet.	Check.
	The water supply valve is turned off.	Check.
	Overflow/leaks.	Check.
	A humming sound (the drain pump) is heard from the dishwasher and does not stop when the main power switch is turned off.	Turn off the water supply valve. Pull out the plug and call the Customer Care Center.
	Check that the Delayed start option has not been selected.	Press and hold the main power switch until the display turns off if you want to cancel the Delayed start option. Restart the dishwasher.
The dishes are not clean.	The spray arms do not rotate.	Remove the arms and clean them. Check that the dishes are not blocking the spray arms.
	Spray arm holes or bearings blocked.	Clean the spray arms. See the chapter Care and maintenance instructions.
	Unsuitable dishwashing program.	Select a program with a high temperature to dissolve grease on heavily soiled dishes, such as Pots+Pans.
	Incorrect detergent dosage.	Dose according to water hardness. Far too much or far too little detergent can result in poor dishwashing results.

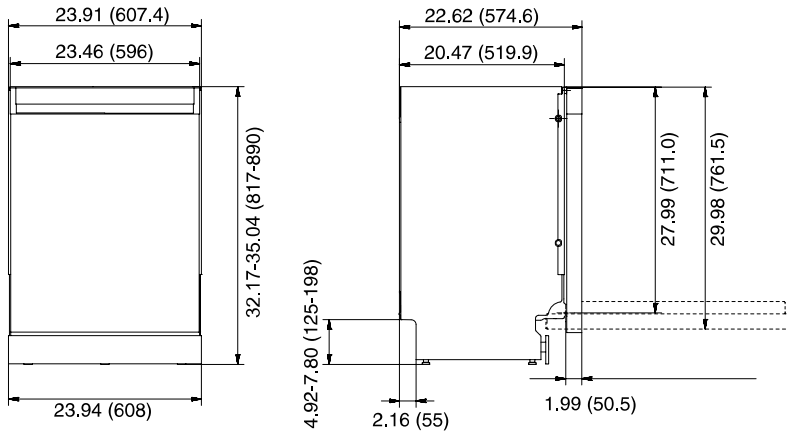
Problem	Possible causes	Action
	Detergent is too old. Detergent is a perishable product.	Avoid large packages.
	Dishes loaded incorrectly.	Do not cover dishes with large bowls or lids. Avoid placing very tall glasses in the corners of the baskets.
	Glasses and cups have toppled over during the program.	Load the dishes securely.
	The filters are not fitted correctly.	Check that the filter handle is locked in the stop position.
	Drain pump stop missing.	Check that the colored stop on the right in the bottom drain is in place. See the chapter Care and maintenance instructions.
Spots on stainless steel or silver.	Some types of food, such as mustard, mayonnaise, lemon, vinegar, salt, and dressings, can cause spots on stainless steel if left for too long.	Rinse off these types of food if not starting the dishwasher immediately. Use the Rinse+Hold program.
	All stainless steel can cause spots on silver if they come into contact during dishwashing. Aluminum can also cause spots on dishes.	In order to avoid marks and tarnishing, separate dishes made from different metals, such as silver, stainless steel, and aluminum.
Spots or films on the dishes.	Incorrect rinse aid dosage setting.	See the chapter Settings.
	Too high temperature and/or too much detergent can cause etching on crystal. Unfortunately, this cannot be repaired, only prevented.	Wash crystal at a low temperature and with a conservative amount of detergent. Contact the detergent manufacturer.
The dishes have a sticky white/blue film.	Rinse aid dosage setting too high.	Reduce the amount. See the sections Before washing for the first time and Settings. If you have very soft water, you may want to dilute the rinse aid 50:50 with water.
Spots left after washing.	Lipstick and tea can be difficult to wash off.	Use a detergent with a bleaching agent.
Detergent residue in the detergent compartment after dishwashing.	The detergent compartment was damp when adding detergent.	The detergent compartment must be dry when adding detergent.
Rattling sound when dishwashing.	The dishes are not correctly placed or the spray arms are not rotating.	Check that the dishes are placed securely. Spin the spray arms to make sure they can rotate.

Problem	Possible causes	Action
1 minute appears on the display.	The program is taking longer than estimated.	No action. The program time is stored. The next time the program is run the corrected time will be displayed.
"STR" is shown on the display.	The dishwasher door has been opened while a program is in progress.	If you want the dishwashing program to continue, press the Program selector and close the door within five seconds. If you want to cancel the dishwashing program, press and hold the main power switch until the display turns off.
The Pots+Pans program has been run with the Sanitize option selected, but "End" is not shown on the display and the Sanitize option button does not light when the program has finished.	In order to meet the requirements of the NSF/ANSI 184 standard, the door must not be opened while the Pots+Pans program is running with the Sanitize option selected.	Restart the dishwasher if the program must be run in compliance with the NSF/ANSI 184 standard.
	In order to meet the requirements of the NSF/ANSI 184 standard, the power must not be cut while the Pots+Pans program is running with the Sanitize option selected.	Restart the dishwasher if the program must be run in compliance with the NSF/ANSI 184 standard.
	The Pots+Pans program has been run with the Sanitize option selected but has not reached a sufficiently high temperature to meet the requirements of the NSF/ANSI 184 standard.	Restart the dishwasher if the program must be run in compliance with the NSF/ANSI 184 standard.
Water remains in the dishwasher above the filters.	The filters are blocked.	Clean the coarse and fine filters.
	The filters are not fitted correctly.	Check that the filter handle is locked in the stop position.
	Debris in the drain pump.	Clean the drain pump. See the chapter Care and maintenance instructions.
	Drain pump stop missing.	Check that the colored stop on the right in the bottom drain is in place. See the chapter Care and maintenance instructions.
	Kink in drain hose.	Check that the hose is free from kinks and sharp bends.

Problem	Possible causes	Action
	Blocked drain hose.	Loosen the drain hose from where it terminates. Check that no debris has clogged the hose. Is the cone-shaped part of the drain boot cut to the maximum size of the fitting where it attaches?
Bad odor in dishwasher.	Dirt around the seals and in corners.	Clean with dish brush and low foaming cleaner.
	Low temperature programs have been selected for a prolonged period.	Run a program with a higher temperature about once a month. Or select the self-cleaning program. See Self Clean in the chapter Using the dishwasher.
Grease deposits in the dishwasher.	Low temperature programs have been selected for a prolonged period.	Select a program with a high temperature to dissolve grease on heavily soiled dishes, such as Pots+Pans. Or run a self-cleaning program. See Self Clean in the chapter Using the dishwasher.
The dishes are not dry enough.	The Auto open option is not activated.	Activate the Auto open option.
	The dishwasher is not fully loaded.	Fully load the dishwasher.
	Rinse aid needs topping up or dosage is set too low.	Top up with rinse add or increase the rinse aid dosage. See the sections Before washing for the first time and Settings.

Installation instructions

Inches (mm)



Nominal dimensions. Actual measurements may vary.

Important safety instructions

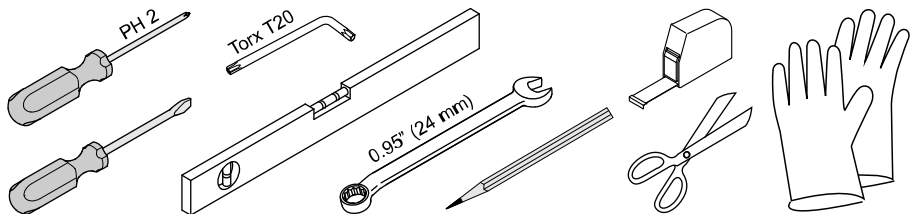
- Connections to electricity, water, and drainage must be performed by a qualified professional.
- Always follow applicable regulations for water, drainage, and electricity.
- Take care during installation! Wear protective gloves! There must always be two people!
- Place a drip tray on the floor beneath the dishwasher to prevent damage from any water leaks.
- Before screwing the dishwasher into place, test the dishwasher by running the Rinse+Hold program. Check that the dishwasher fills with water and drains. Also check that none of the connections leak.

WARNING!

Turn off the water supply when installing the dishwasher!

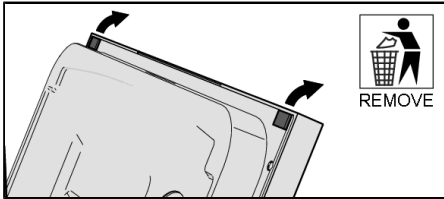
The plug must be disconnected or power to the outlet turned off while installing the dishwasher!

Tools



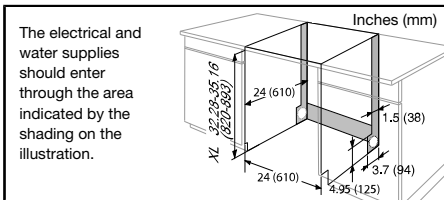
Transport protection for the door

Do not forget to remove the transport protection for the door when unpacking the dishwasher.



Placing the dishwasher

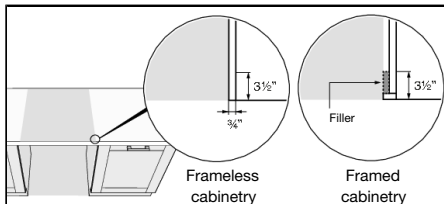
The dishwasher is intended for installation under a countertop. The recess dimensions are illustrated. Make sure the area on which the dishwasher is to be installed is firm.



Use caution when the appliance is installed or removed to reduce the likelihood of damage to the power cord.

NOTE!

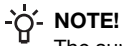
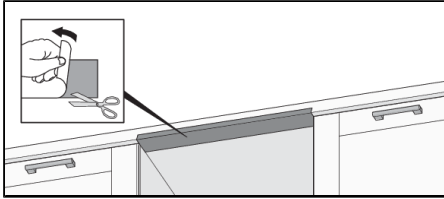
Framed cabinets require additional finished filler material behind the face frame for a proper installation. A minimum 3½" (89 mm) finished return is required on all sides of the opening.



If the dishwasher is built-in, the surrounding furnishings must be resistant to any condensation from the dishwasher.

Fit the protective film

Affix the protective film (packed in the document bag). The protective film is to protect the countertop from moisture.

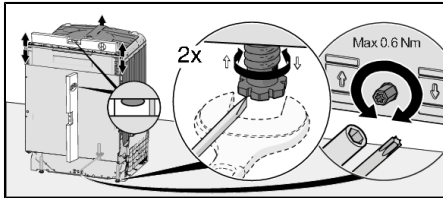


NOTE!
The surface to which the protective film is fitted must be clean and dry.

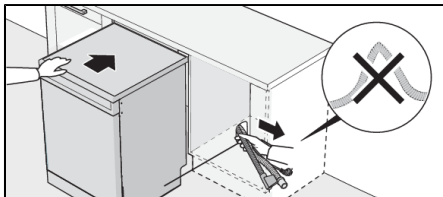
Adjust the height and slide the dishwasher into place

1. Start by measuring the height from the floor to the bottom edge of the countertop.
2. Measure the height from the floor to the top edge of the dishwasher.
3. Adjust the front feet by turning them clockwise to raise and counterclockwise to lower the dishwasher.

Lean the dishwasher forward a little and adjust the rear foot with the screw at the front of the dishwasher. Turn clockwise to lower or counterclockwise to raise.



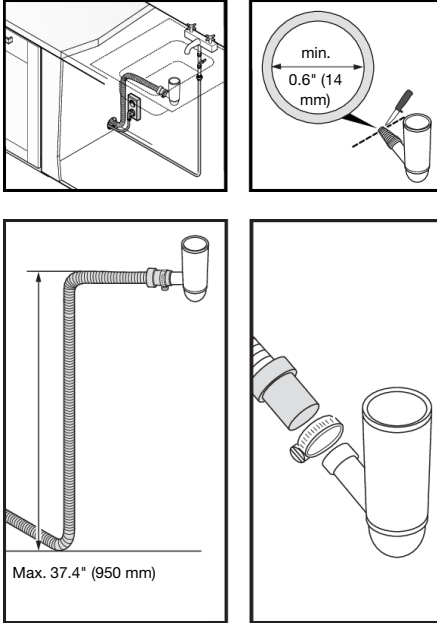
4. Verify there is an air gap of at least 0.1" (3 mm) between the underside of the countertop and the top edge of the dishwasher.
5. Slide the dishwasher into place.
 - Pull the drain and supply hoses through the opening as the dishwasher is slid into place.
 - Check that the hoses have no kinks or sharp bends, and check that there is nothing that can damage the hoses.



- Check that the machine is installed such that the door opens freely, otherwise door lock functionality may be disrupted.
6. Make any final adjustments to the front feet (the dishwasher may lean no more than 0.2" (5 mm)).

Drain connection

This dishwasher is suitable for installing in a raised recess (to attain an ergonomic working height). This means that the dishwasher can be placed so that the drain hose runs to a lower level than the bottom of the dishwasher, such as by routing it directly to a floor drain. The dishwasher is fitted with an integrated anti-siphon device to prevent the machine from being emptied of water during the wash cycle.



The drain hose can also be connected to a connection nipple on the sink unit's water trap. The connection nipple must have an internal diameter of at least 0.6" (14 mm).

The drain hose may be extended by a maximum of 87" (2.2 m) (the total length of the drain hose must not exceed 177" (4.5 m)). Any joins and connecting pipes must have an internal diameter of at least 0.6" (14 mm). However, the drain hose should ideally be replaced with a new hose without joins.

No part of the drain hose may be more than 37.4" (950 mm) above the bottom of the dishwasher.

Attach the drain hose with a hose clamp. Ensure that the drain hose has no kinks.

Connection to water supply

Use only the inlet hose supplied with the dishwasher. Do not re-use old or other spare hoses.

The supply pipe must be fitted with a water supply valve. The water supply valve must be easily accessible, so that the water can be shut off if the dishwasher has to be moved.

Once the installation is complete, turn on the water supply valve and allow the pressure to settle for a while. Check that all connections are watertight.

Water supply

The machine can be connected to either a cold or a hot (max. 160 °F (70 °C)) water supply. The water pressure should be 4.2-140 psi (0.03-1.0 MPa).

Connection to cold water supply

Connect the dishwasher to the cold water supply if the building is heated using oil, electricity, or gas.

Connection to hot water supply

Connect the dishwasher to the hot water supply (max. 160 °F (70 °C)) if the building is heated using an energy-efficient means such as district heating, solar power, or geothermal power. Choosing a hot water connection cuts dishwashing times and reduces the dishwasher's energy consumption.



NOTE!

Do not exceed the permitted water supply temperature. Certain materials used in some cookware cannot withstand strong heat. See Fragile dishes in the chapter Loading the dishwasher.

Electrical connection

Information about the electrical connection can be found on the serial number plate. This specification must match the electricity supply.

The power outlet for the appliance shall be installed in a cabinet or on a wall adjacent to the undercounter space in which the appliance is to be installed. Do not use an extension cord for this appliance.

Use caution when the appliance is installed or removed to reduce the likelihood of damage to the power cord.

Grounding instructions

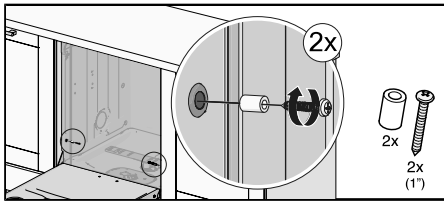
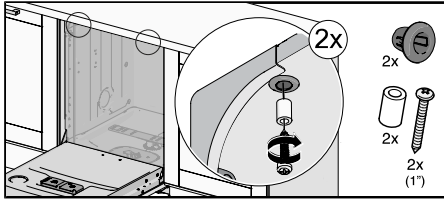
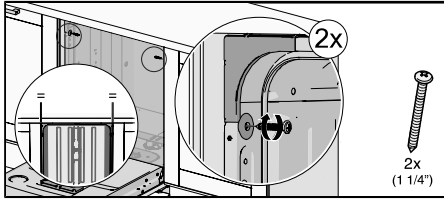
This appliance must be grounded. In the event of a malfunction or breakdown, grounding will reduce the risk of electric shock by providing a path of least resistance for electric current. This appliance is equipped with a power cord fitted with an equipment grounding conductor and a grounding plug. The plug must be plugged into an appropriate power outlet that is installed and grounded in accordance with all local codes and ordinances.



WARNING!

Improper connection of the equipment grounding conductor can result in a risk of electric shock. Check with a qualified electrician or service representative if you are in doubt as to whether the appliance is properly grounded. Do not modify the plug provided with the appliance. If it does not fit the power outlet, have an appropriate power outlet installed by a qualified electrician.

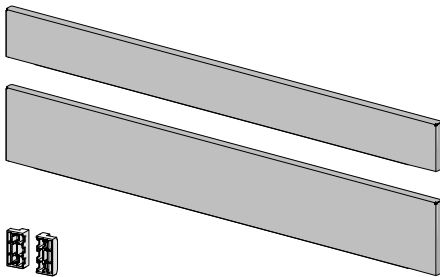
Screwing the dishwasher into place



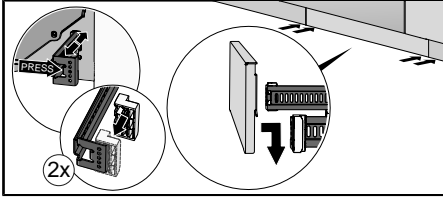
After fastening the machine, check that the front feet still touch the floor.

Dishwasher toe kick

The dishwasher is supplied with a low toe kick and a high toe kick. Which toe kick you should use depends on the recess height and pedestal depth.



Fit the toe kick



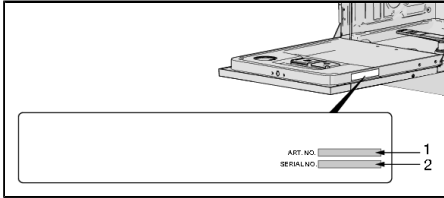
Ensure the floor underneath the toe kick is at same height as the floor underneath the dishwasher.

Service

Read the chapter Troubleshooting before contacting the Customer Care Center. If you have encountered a problem that you cannot resolve, please contact your nearest Customer Care Center for professional help.

When making contact, provide the details on the serial number plate. Include the article number (1) and the serial number (2).

Please note that non-professional repairs may risk user safety and affect the warranty.



Technical information

Technical data

Model designation:	LUDWA30155
Height:	32.17-35.04" (817-890 mm)
Width:	23.94" (608 mm)
Depth:	22.62" (574.6 mm)
Weight:	75 lb (34 kg) ¹⁾
Water pressure:	4.2-140 psi (0.03-1.0 MPa)
Electrical connection:	See serial number plate
Rated power:	See serial number plate

¹⁾ *Weight can vary due to different specifications.*

BREDA



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We reserve the right to make changes.