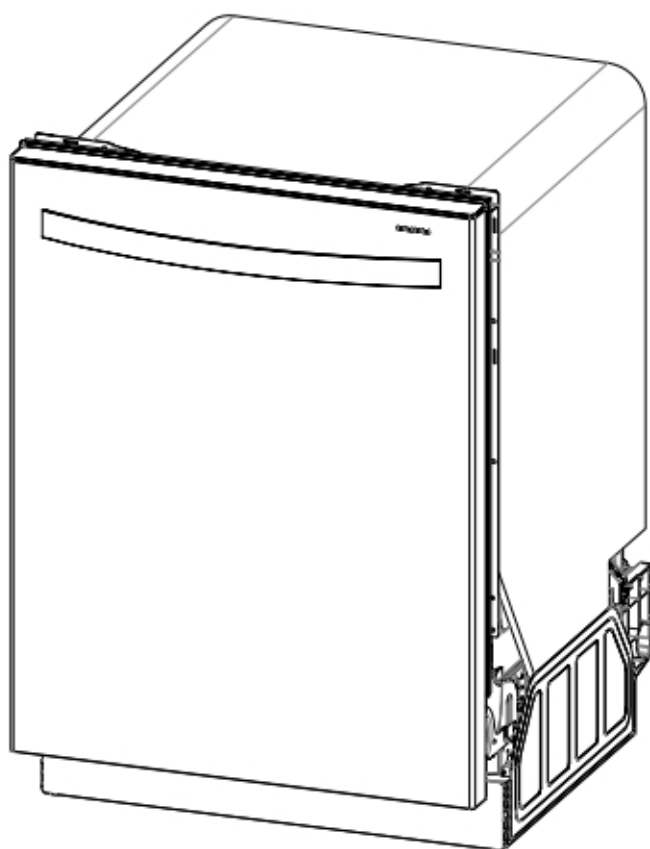




ZDW001

USER MANUAL

DISHWASHER



For your safety and correct use of the product,
please read the instructions carefully before use.



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SAFETY DEFINITIONS



WARNING

This indicates that death or serious injuries may occur as a result of non-observance of this warning.



CAUTION

This indicates that minor or moderate injuries may occur as a result of non-observance of this warning.

NOTE

This indicates that damage to the appliance or property may occur as a result of non-compliance with this advisory.

Note: This alerts you to important information and/or tips.

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SAFETY AND WARNINGS

Your dishwasher has been carefully designed to operate safely during normal dishwashing procedures. Please keep the following instructions in mind when you are using your dishwasher.

WARNING

To reduce the risk of electric shock, fire, or injury to persons, the installer must ensure that the dishwasher is completely enclosed at the time of installation.

Safety Instruction:

The instructions pertaining to a risk of fire, electric shock, or injury to persons shall warn the user of the potential risks and state the precautions that should be taken to reduce such risks.

WARNING **IMPORTANT SAFETY INSTRUCTIONS**

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

- To reduce the risk of electric shock, fire, or injury to persons, the installer must ensure that the dishwasher is completely enclosed at the time of installation.
- This appliance must be connected to a grounded metal, permanent wiring system, or an equipment-grounding conductor must be run with the circuit conductors and connected to the equipment-grounding terminal or lead on the appliance.
- Read all instructions before using the dishwasher.
- Keep this instruction manual in a safe place for future reference. If the appliance is sold, given away or moved, please ensure the manual is kept with the machine, so that the new owner may benefit from the advice contained within it.
- 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:
 - 1) Locate sharp items so that they are not likely to damage the door seal; and
 - 2) 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 touch the heating element during or immediately after use.
- Do not operate your dishwasher unless all enclosure panels are properly in place.
- If the appliance must be moved at any time, keep it in an upright position; if absolutely necessary, it may be tilted onto its back.
- Do not tamper with controls.

SAFETY AND WARNINGS

- 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.
- Do not lean on the adjustable racks or use them to support your body weight.
- Some dishwasher detergents are strongly alkaline. They can be extremely dangerous if swallowed. Avoid contact with the skin and eyes and keep children away from the dishwasher when the door is open. Check that the detergent receptacle is empty after completion of the wash cycle.
- Under certain conditions, hydrogen gas might 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 such a period, 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.

SAVE THESE INSTRUCTIONS



WARNING CUT HAZARD

Take care – panel edges are sharp.
Failure to use caution could result in injury or cut



WARNING INSTALLATION SAFETY INSTRUCTIONS

- Connect to a properly rated, protected, and sized power circuit to avoid electrical overload
- To reduce the risk of severe injury or death, follow all installation instructions.
- The appliance must be installed and electrically grounded by qualified service personnel in accordance with local codes.
- Disconnect the power supply line, house fuse or circuit breaker before installing or servicing the appliance.
- When moving or installing the product in a different location, call qualified service personnel for installation and service.
- Keep packing materials out of the reach of children. Packaging material can be dangerous for children. There is a risk of suffocation.
- Moving or installation of the appliance requires two or more people.
- This appliance is not designed for maritime use or for mobile installations such as in RVs, trailers, or aircraft.
- Store and install the appliance where it will not be exposed to temperatures below freezing or exposed to outdoor weather conditions.

SAFETY AND WARNINGS

- This appliance must be positioned near to an electrical power supply.
- Do not, under any circumstances, cut or remove the ground from the power supply line.
- Check the dishwasher by placing it so that its sides or back panel are in contact with the adjacent cabinets or even with the wall. This appliance can also be recessed under a single table top.
- Position the dishwasher on a level and sturdy floor. If the floor is uneven, the front feet of the appliance may be adjusted until it reaches a horizontal position (the angle of inclination must not exceed 2 degrees). If the appliance is leveled correctly, it will be more stable and much less likely to move or cause vibrations and noise while it is operation.
- Connection to the water and electricity supplies should only be performed by a qualified technician.
- The dishwasher should not stand on top of the water hoses or the electricity supply cable.
- The appliance must be connected to the water supply network using new piping. Do not use old piping.



WARNING

OPERATIONAL SAFETY INSTRUCTIONS

- Never unplug the appliance by pulling on the power supply line.
- Do not use an extension cable or adapter with this appliance.
- Do not grasp the power supply line or touch the appliance controls with wet hands.
- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- Do not modify or extend the power cable
- Keep the area underneath and around your appliances free of combustible materials (lint, paper, rag setc.), gasoline, chemicals and other flammable vapors and liquids.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning the use of the appliance by a person responsible for their safety.
- In the event of a gas leak (propane gas, LP gas, etc.) do not operate this or any other appliance. Open a window or door to ventilate the area immediately.
- Fix the drain hose securely in place.
- Do not let children eat detergent or dishwasher rinse agent.
- Do not install or store the dishwasher where it will be exposed to weather conditions.
- After cleaning the dishes, turn off the water supply. Before cleaning, turn the water supply back on and check the connections.
- Be careful not to catch your hand when closing the door of the product.

SAFETY AND WARNINGS

- Do not plug the dishwasher into a damaged outlet.
- Do not install or keep the dishwasher near electrical components or exposed flames.
- Do not wash dishes exposed to gasoline, solvents or other flammable materials.
- When cleaning, do not spray water on the product directly.
- Do not press buttons with a sharp object such as an awl or pin.
- Open the door very carefully if the dishwasher is in operation. There is a risk of being sprayed with hot water. Do not open the door fully until the spray arms have stopped rotating.
- The door should not be left in the open position as this could present a tripping hazard.
- The water inside the dishwasher is not suitable for drinking.
- The dishwasher must be used with the filter plate, drain filter and spray arm(s) in place.
- Do not operate this dishwasher if it is damaged, malfunctioning, partially disassembled or has missing or broken parts, including a damaged power supply cord or plug.
- Household appliances are not intended to be played with by children. Children of less than 8 years old must be kept away from the appliance unless continuously supervised. This appliance can be used by children aged from 8 years and above, and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge, if they have been given supervision or instruction concerning the use of the appliance in a safe way and they understand the hazards involved.
- Cleaning and user maintenance shall not be done by children without supervision.
- If a dishwasher cleaner is used, we would strongly recommend a wash program with detergent should be run immediately afterward, to prevent any damage to the dishwasher.
- The dishwasher is designed for washing normal household utensils. Items that are contaminated by petrol, paint, steel or iron debris, corrosive, acidic or alkaline chemicals are not to be washed in the dishwasher.
- If the dishwasher is not being used for long periods of time, turn the electricity and water supply to the dishwasher off.



WARNING

MAINTENANCE SAFETY INSTRUCTIONS

- Repair or immediately replace all power supply lines that have become frayed or otherwise damaged. Do not use a power supply line that shows cracks or abrasion damage along its length or at either end.
- Disconnect the appliance from the power supply before any cleaning or maintenance.
- When disconnecting the appliance pull the plug rather than the power supply cord or junction of cord to avoid damage.
- Do not repair or replace any part of the appliance or attempt any servicing unless specifically recommended in this user guide.

SAFETY AND WARNINGS

- Keep the floor around your appliance clean and dry to reduce the possibility of slipping.
- Keep the area around/underneath your appliance free from the accumulation of combustible materials, such as lint, paper, rags and chemicals.

CAUTION

To reduce the risk of minor or moderate injury to persons, malfunction, or damage to the product or property when using this product, follow basic precautions, including the following:

Installation

- Install the product on a firm and level floor.
- This dishwasher must be connected to a hot water supply with a temperature range between 120 °F(49°C and 149 °F(65 °C).This temperature range provides the best washing results and shortest cycle time.The temperature should not exceed 149°F (65 °C) to prevent damage to dishes.
- Do not put the drain hose under the dishwasher during installation.

Operation

- Do not place objects on top of the appliance.
- Turn off the water faucets and unplug the appliance if the appliance is to be left for an extended period of time, such as during vacations.
- Do not store or spill liquid detergents, cleaners, or bleaches(chlorine bleach, oxygen bleach) on the appliance. Doing so may result in corrosion, discoloration or damage to the surface of the appliance.
- Do not touch draining water which may be hot.
- If the drain hose and the water supply hose are frozen in winter, defrost before using the appliance.
- Do not put hands, feet, or metal objects below or behind the appliance.

Maintenance

- If cooking oil is spilled on the exterior of the product, wipe it off immediately. Do not clean the exterior of the product with cleaners which contain alcohol, thinners, bleach, benzene, flammable liquids,or abrasives. These substances may discolor or damage the appliance.

PRODUCT DESCRIPTION

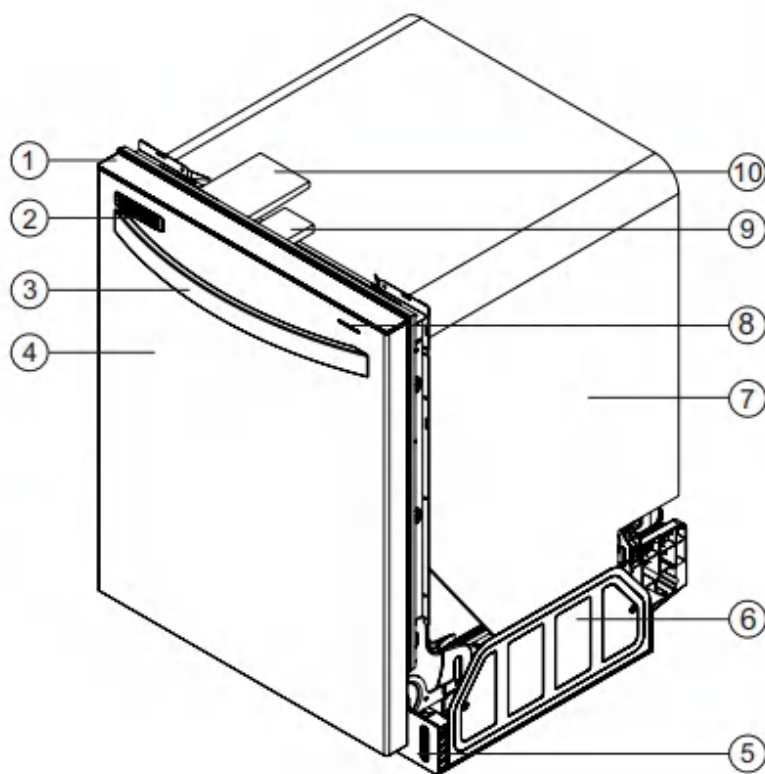
Product Features

The images in this guide may be different from the actual components and accessories, which are subject to change by the manufacturer without prior cover. notice for product improvement purposes.

NOTE

- For your safety and for extended product life, use only authorized components. The manufacturer is not responsible for product malfunction or accidents caused by the use of separately purchased unauthorized components or parts.
- Do not remove the safety cover at any time.
- To ensure reliability, each dishwasher goes through thorough quality control before it leaves the factory.
- You may find water droplets or water spots from this process inside your new dishwasher.

Front View



- ① Control Panel
- ② Exhaust Assembly (Option)
- ③ Door Handle
- ④ Outer door
- ⑤ Lower Cover
- ⑥ Side shield
- ⑦ Insulation
- ⑧ Progress indicator
- ⑨ Door Lock
- ⑩ Auto Open Device (Option)

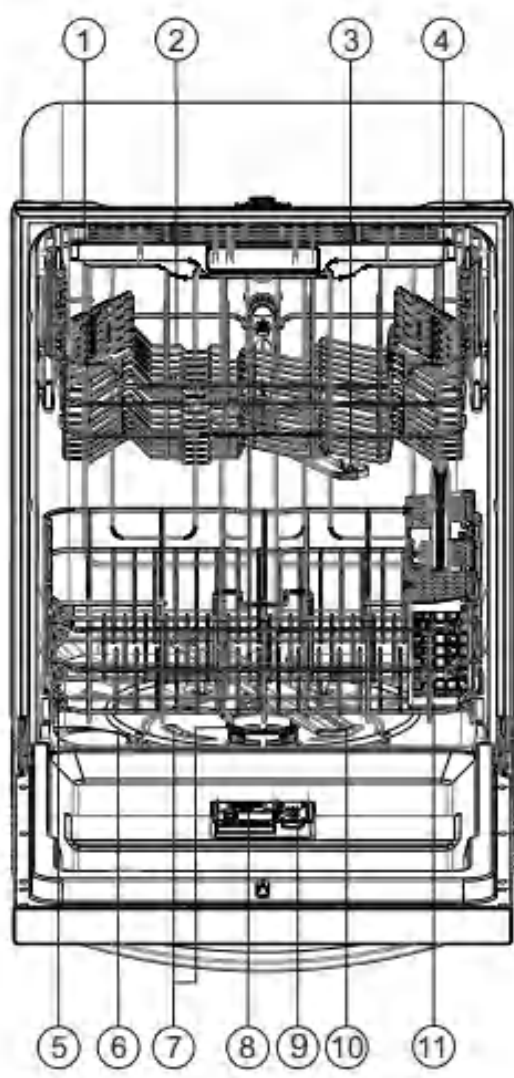
PRODUCT DESCRIPTION

Progress indicator

The top-control models have 4 indicator LEDs centered at the top of the front cover.

- WASHING: When the dishwasher is WASHING the load, the Washing light will illuminate.
- DRYING: When the dishwasher is at drying stage, the DRYING light will illuminate.
- CLEAN: After the cycle has ended, the CLEAN light will illuminate until the dishwasher door has been opened.
- SANITIZED: When SANITIZED is selected, the SANITIZED light will illuminate after the cycle has ended.

Interior View



- ① Top cutlery basket (Option)
- ② Upper basket
- ③ Upper spray arm
- ④ Cup holder (Option)
- ⑤ Lower basket
- ⑥ Heater
- ⑦ Filters
- ⑧ Detergent dispenser
- ⑨ Rinse aid dispenser
- ⑩ Lower spray arm
- ⑪ Cutlery basket (Option)

NOTE

Remove all packing materials from the exterior and interior of the dishwasher before installing the appliance.

PRODUCT DESCRIPTION

Accessories



Installation Brackets (2)



Wood Screws (2)



Anti Steam Sticker

Product Specifications

The appearance and specifications listed in this manual may vary due to constant product improvements.

Model	Specifications
Voltage(V)	120V
Frequency(Hz)	60Hz
Amper(A)	8.6A
Water Pressure	20 psi-120psi (138kPa-827kPa)
Dimensions (Width X Depth X Height)	23 3/4" X 24 9/16" X 33 11/16" (603mm X 624mm X 855mm)
Inlet Water Temperature	120 °F-149 °F (49 °C-65 °C)

INSTALLATION INSTRUCTIONS

Unpacking and handling

- Check packaging and dishwasher for signs of transport damage. If the dishwasher is in any way damaged, do not install it. Contact the dealer the dishwasher was purchased from.
- Disposal of packaging: some of the packaging is recyclable. Check the symbols and labels and recycle if possible.
- Never lift the dishwasher from the door handle or the top panel. Doing so may cause damage.
- Be careful with the hose behind the dishwasher. Careful handling will prevent damage and malfunction from squashing, kinking or cuts.
- While installing the dishwasher, check the drain hose is not restricted or kinked.
- Check that the hoses are long enough to reach the services. If a hose needs extending, ensure that the extension hose is new and of equal quality and diameter to the one already fitted.

Parts not Provided



- ① Electrical Cable
- ② Electrical Tape
- ③ Water Supply Tube
- ④ Wire Nuts for 16-Gauge Wiring
- ⑤ Water Supply Tube
- ⑥ UL Approved Strain Relief
- ⑦ Hose Clamp

INSTALLATION INSTRUCTIONS

Tools Needed



①



②



③



④



⑤



⑥



⑦



⑧



⑨



⑩

① Flat-Blade Screwdriver

② Phillips Screwdriver

③ Hole saw min. 2 1/2" bit

④ Electric Drill

⑤ Level

⑥ Tape Measure

⑦ Utility knife

⑧ Adjustable Wrench

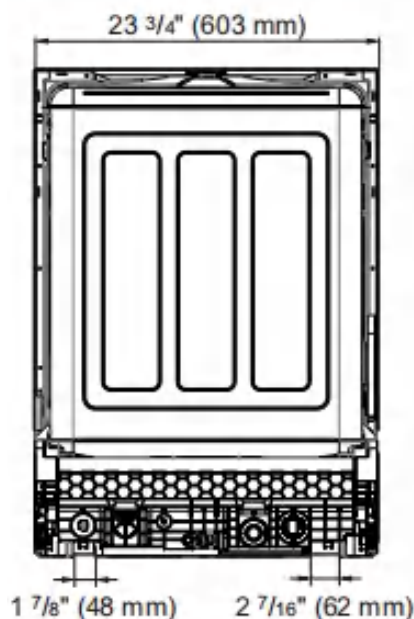
⑨ Pliers

⑩ Needle Nose Pliers

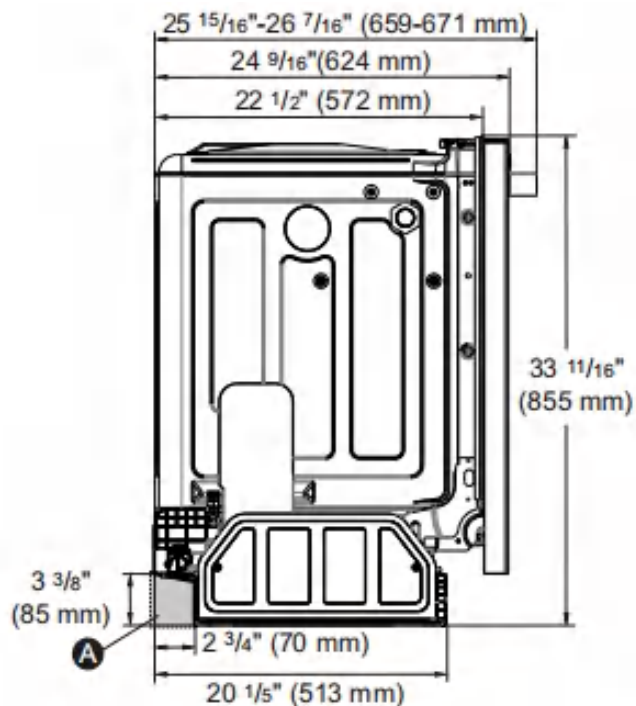
INSTALLATION INSTRUCTIONS

Product Dimensions

Back View



Side View



For easiest installation, see marked areas for **A** water and electrical clearances in base of dishwasher. Water supply hose, drain hose and electric cable should be passed through this area.

Preparing Cabinet Opening

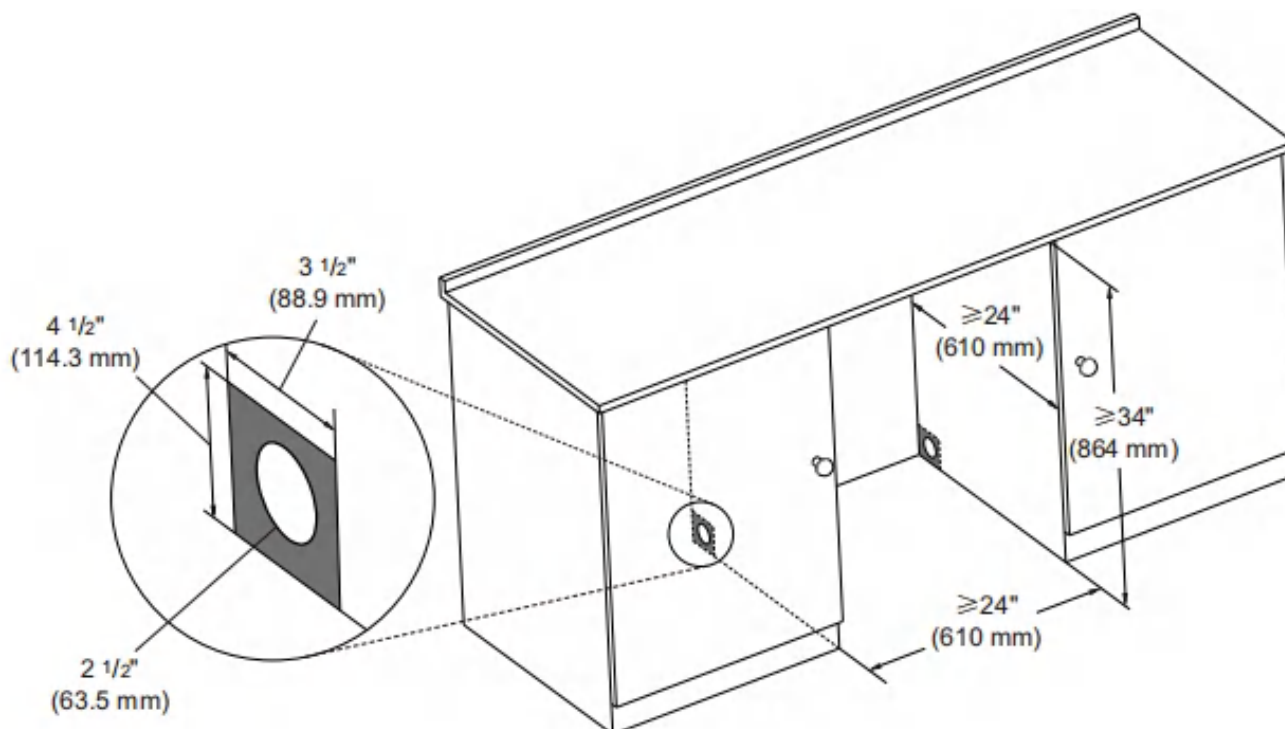
This dishwasher is designed to fit standard dishwasher opening. An opening may be needed on both sides to route plumbing and electrical connections. To ensure proper drainage, install the dishwasher no more than 12 ft. (3.65 m) from the sink.

The location must have sufficient space for the dishwasher door to open easily and provide at least 0.1" (2 mm) between the dishwasher and the cabinet sides. If installing the dishwasher in a corner, leave a minimum of 2" (50 mm) between the dishwasher and the adjacent wall.

The adjacent wall must be free of obstructions.

INSTALLATION INSTRUCTIONS

Choosing the Proper Location



1 Select a location as close to the sink as possible for easy connections to water supply line, drain hose and electrical connection.

2 To allow for proper clearance of plumbing and electrical, use the template included with the literature to determine the clearance on the side of the cabinet where the cabinet meets the back wall. Using a 2 1/2" diameter holesaw, drill a hole in the target area as shown on the template.

WARNING

Installation damage is not covered by the warranty, and leaks caused by improper installation may result in property damage.

Do not use existing holes unless they are in the target area.

Failure to properly locate the hole for the water and drain lines may prevent the dishwasher from installing flush with the cabinets and could result in kinked, pinched, crushed, stressed or damaged lines.

INSTALLATION INSTRUCTIONS

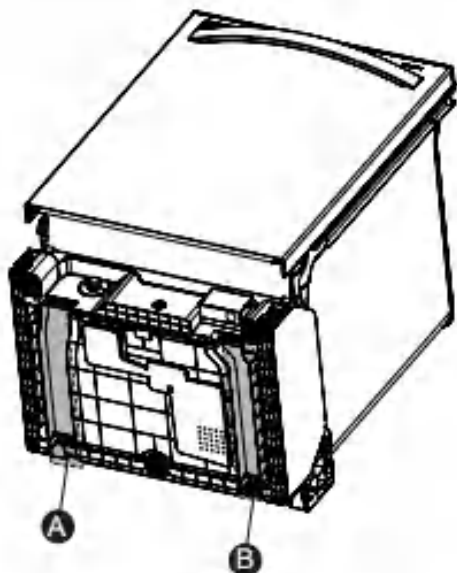
CAUTION

When connecting the dishwasher water supply line to the house water supply, sealing tape or compound should be used on pipe threads to avoid leaks. Tape or compound should not be used on compression fittings.

Connect the dishwasher to a hot water supply with a temperature range between 120°F (49°C) and 149 °F (65 °C). This temperature range provides the best washing results and shortest cycle time. To prevent damage to dishes, the temperature should not exceed 149 °F(65 °C).

Water supply pressure must be between 20 psi and 80 psi (140–550 kPa). If the water supply pressure exceeds 80 psi, a pressure reducing valve must be installed. Otherwise premature failure of the inlet valve may occur.

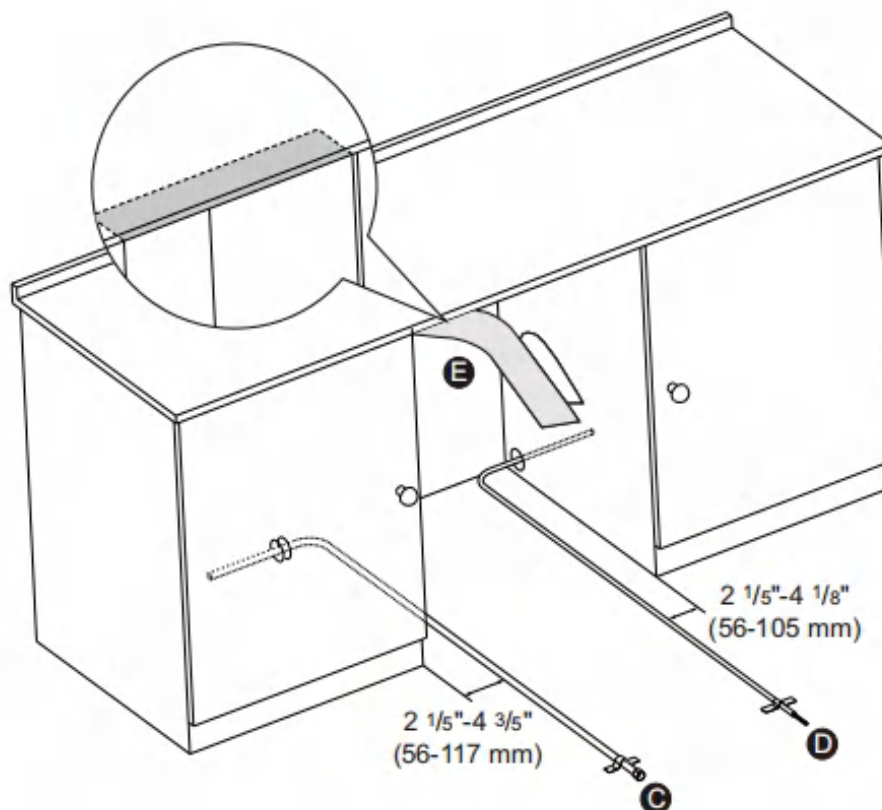
Routing Water Supply Line and Electrical Wiring and Vapor paoof



There are 2 channels in the bottom of the dishwasher for routing the water and electrical connections.

As shown in the bottom view below, channel **A** is for the water supply line, and channel **B** is for the electrical cable.

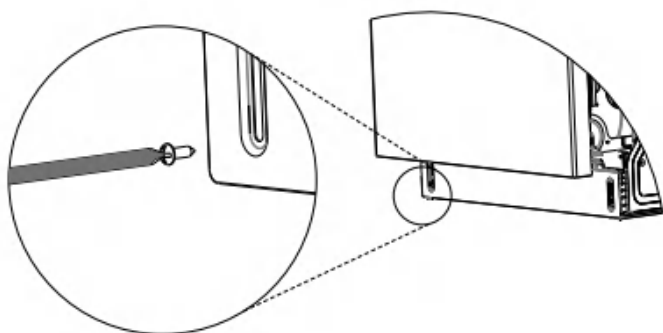
INSTALLATION INSTRUCTIONS



- 1 Turn off the house water supply and the circuit breaker or dedicated power before connecting the dishwasher.
- 2 Run the water supply line **C** along the floor $2\frac{1}{5}''$ - $4\frac{3}{5}''$ (56-117 mm) from the left side of the opening and tape it in place in front of the opening.
- 3 Run the water electrical cable **D** along the floor $2\frac{1}{5}''$ - $4\frac{1}{8}''$ (56-105 mm) from the right side of the opening and tape it in place in front of the opening.
- 4 Stick anti steam sticker **E** on the lower edge of the cabinet.

INSTALLATION INSTRUCTIONS

Removing Lower Cover



1 Remove the screws at either side which attach the lower cover to the.

2 Remove the lower cover.

3 If there is insulation padding behind the lower cover, remove it.

4 Set the parts aside until the installation is complete.

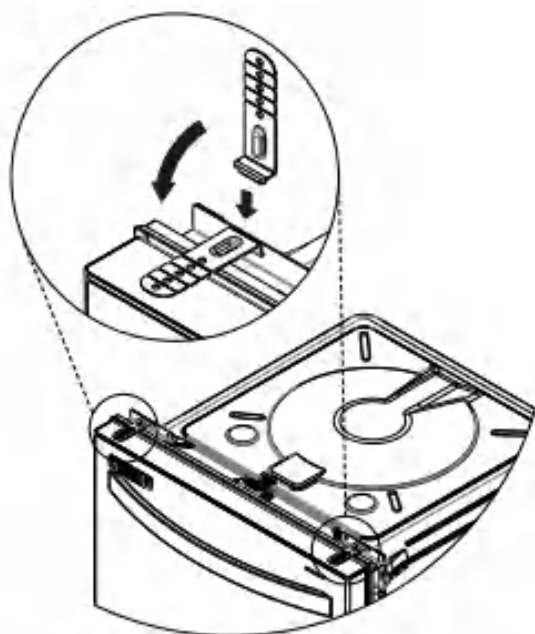
WARNING

If you lay the dishwasher on its back, do so carefully to avoid damaging the drain hose and the tub.

Attaching Installation Brackets

For countertops made of wood or other materials that will not be damaged by drilling, use the metal installation brackets provided.

For countertops made of granite, marble, or other materials that could be damaged by drilling, use the wood screws to attach the dishwasher to the cabinet. See installation instructions in Securing Dishwasher to Cabinet Opening.



1 Insert the end of the mounting bracket with the hook into the slot on the upper frame.

2 and rotate the bracket until the side with the screw hole is horizontal. complete.

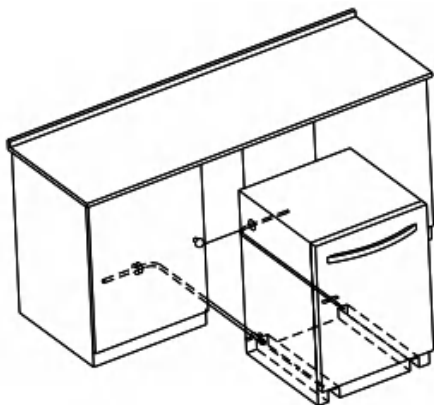
WARNING

Installation brackets and screws can be found in the silverware basket.

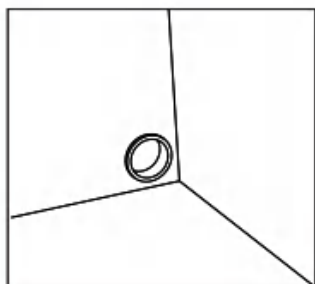
INSTALLATION INSTRUCTIONS

Sliding Dishwasher into Cabinet Opening

How to Slide Dishwasher

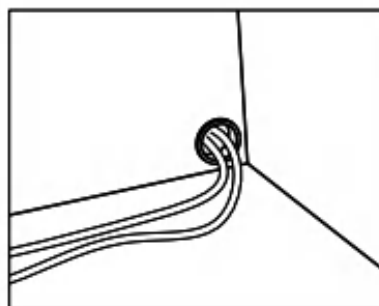
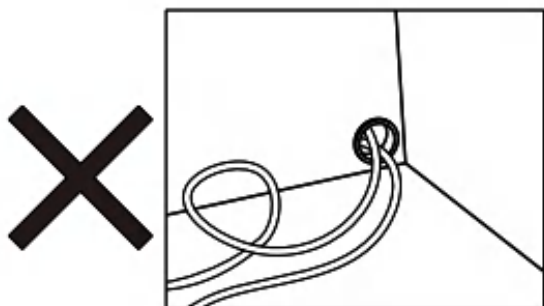


1 Align the dishwasher with the opening. Make sure the water supply line and electrical cable are in the correct positions to slide into their channels properly.



2 Smooth out or pad the edges of the hole drilled for the water supply to avoid damaging the drain hose.

3 Make sure the drain hose is straight before feeding the end of it through the hole for the water supply. As you slide the dishwasher into the opening, you will want to slowly pull on the drain hose from inside the cabinet to take up some slack. Be careful not to kink, pinch, crush or stress the drain hose during installation to avoid leaking and water damage.



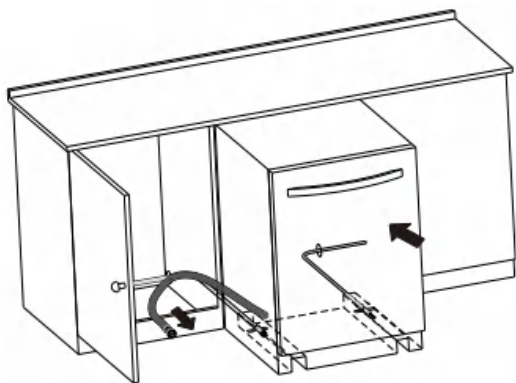
4 Gradually slide the dishwasher into the opening, making sure that the water supply line and electrical cable are passing freely through the channels and do not get caught under the dishwasher.

INSTALLATION INSTRUCTIONS

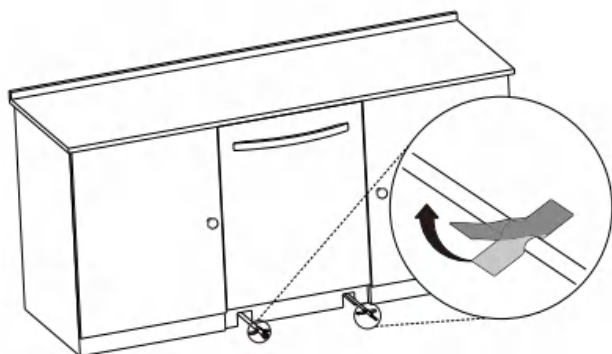
WARNING

To avoid malfunctions or leakage, it is important that the drain hose not get kinked, pinched, stressed or crushed behind or under the dishwasher or inside the neighboring cabinet.

Damage resulting from improper installation is not covered under the warranty.



5 As you slide the dishwasher into the opening, stop periodically (or have an assistant help) to take up the slack by pulling the drain hose farther into the cabinet.



6 Remove the tape from the water supply line and the electrical cable.

Connecting Water Supply Line and PowerStickers

Connecting Water Supply Line

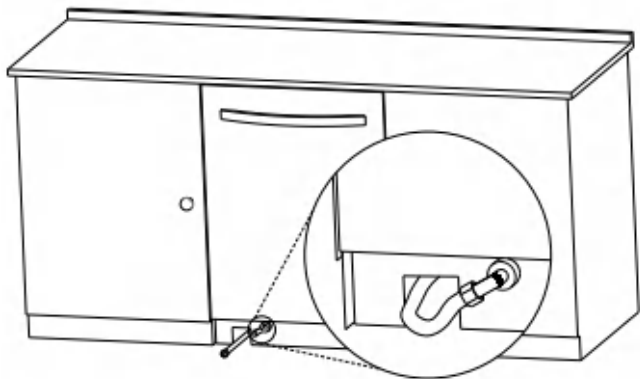
1 With the home water supply turned off, connect the water supply line to the inlet valve on the left front of the dishwasher.

WARNING

Tape or compound should not be used on dishwasher inlet valve.

INSTALLATION INSTRUCTIONS

Sliding Dishwasher into Cabinet Opening



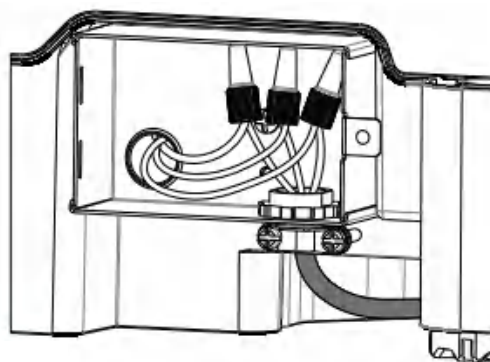
2 Tighten the compression nut.

3 Slide the water supply line back through the channel, pulling gently from inside the cabinet to make sure the line is not kinked, pinched, stressed or crushed.

Connecting Power

The dishwasher should have a dedicated properly grounded branch circuit to connect the 3 wire setup which includes the ground wire.

If a 3-prong power supply is used, it should be in an accessible location adjacent to the dishwasher within 4 ft. (1.22 m) of the dishwasher side and not behind the dishwasher.



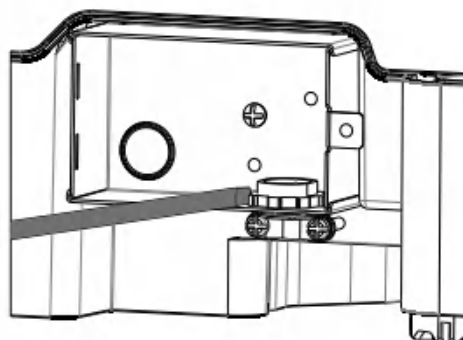
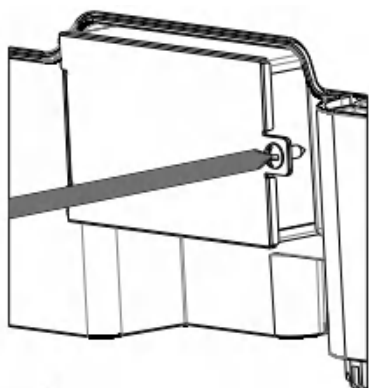
WARNING

The best location for the electrical conduit is on the right side of the back wall. Re-route the electrical cable before installation if the electrical conduit pipe is longer than 3" (76 mm) and is centered on the back wall.

1 Turn off electrical power to the unit at the circuit breaker.

2 Use a Phillips screwdriver to remove the screw from the junction box cover and remove the cover.

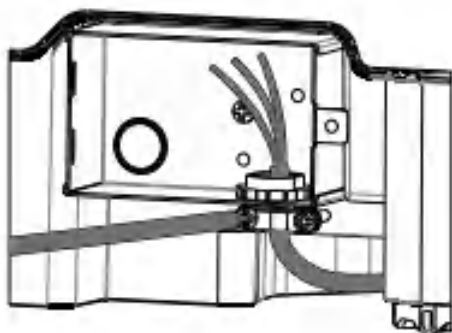
3 Insert a strain relief through the hole in screw from the junction box cover and remove the cover.



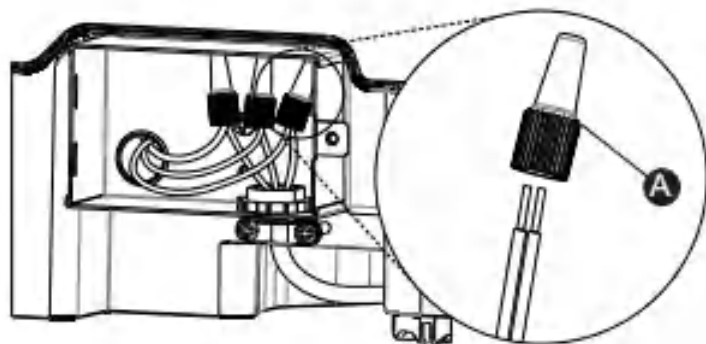
INSTALLATION INSTRUCTIONS

Sliding Dishwasher into Cabinet Opening

4 Insert the electrical cable through the hole in the strain relief. Tighten 2 screws to secure the cable.



5 Pair the white, black, and green wires to the matching colored wires from the dishwasher. Then twist on the provided wire nuts tightly to connect the corresponding wires.



6 Fold the connected wires back into the junction box and screw on the junction box cover.

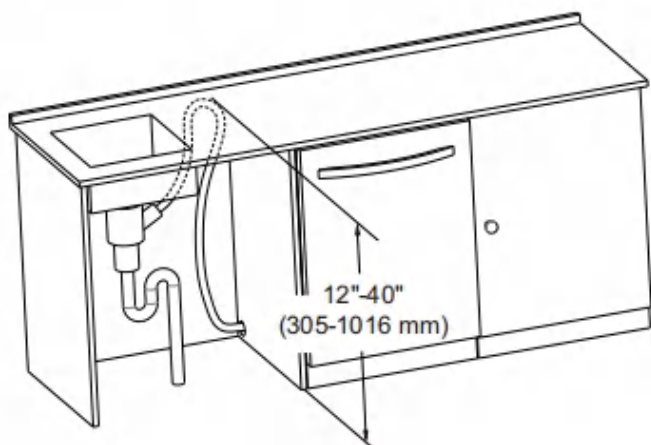
WARNING

Verify that the black wire is hot (120 V). If not, or if you are unsure of the power supply, have it checked by a licensed electrician.

WARNING

Do not leave stripped wire exposed. Trim stripped wire to fit completely inside wire nuts.

Height of Drain Hose



The height of the drain hose end must be at least 12" (305 mm) and within 40" (1016 mm) from the base of the dishwasher to avoid water being siphoned from the tub.

INSTALLATION INSTRUCTIONS

Leveling Dishwasher

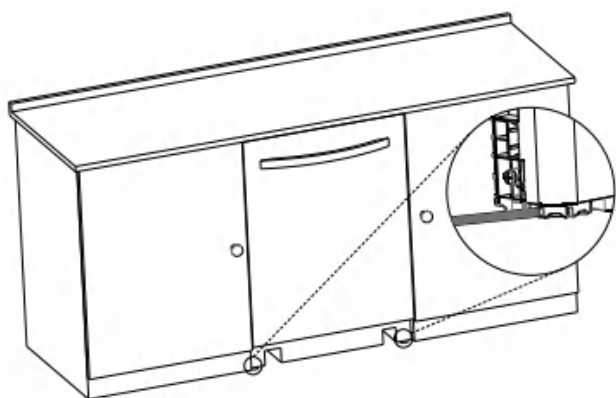
Check that the dishwasher is level and adjust the leveling feet if necessary.

Adjusting Leveling Feet

Adjust as needed until the dishwasher is completely leveled.

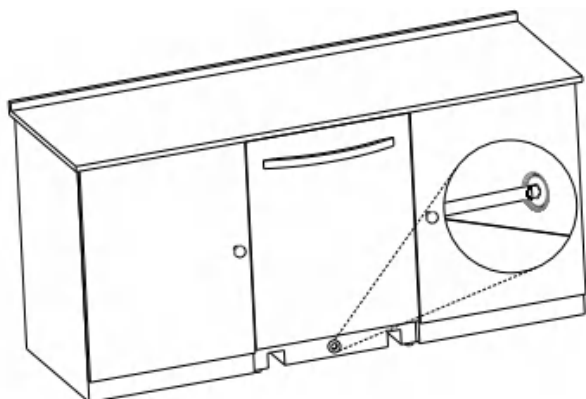
Adjust the front and rear leveling feet until they are all in firm contact with the floor. Failure to level the dishwasher may prevent the door from closing properly and the dishwasher will not turn on.

Adjusting Leveling Feet



Use a flat-blade screwdriver to turn the front leveling feet and adjust the front of the tub. Turn the front leveling feet clockwise to raise the front of the tub and counter clockwise to lower it.

Adjusting Rear Leveling Foot



Use a flat-blade screwdriver to adjust the rear leveling foot and the rear of the tub using the center screw at the base of the appliance in the front. Turn the center screw clockwise to raise the rear of the tub and counter clockwise to lower it.

WARNING

To avoid damaging the screw, do not use an electric screwdriver.

INSTALLATION INSTRUCTIONS

Leveling Dishwasher Securing Dishwasher in Cabinet Opening

There are 2 options for securing the dishwasher. If the countertop is made of wood or a material that can safely be drilled into, secure the dishwasher to the countertop with the provided brackets. If the countertop is granite, marble, or a material that cannot be drilled into, secure the dishwasher to the cabinet frame with the provided wood screws.

WARNING

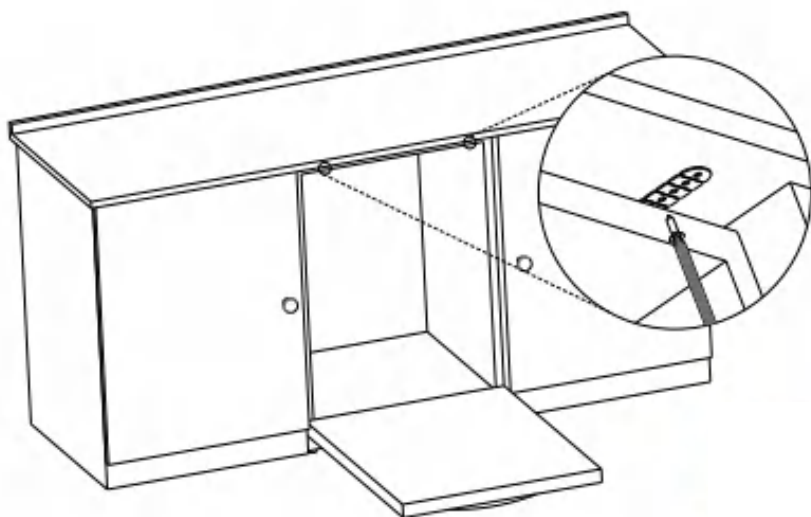
Ensure the dishwasher is level and all leveling feet are in firm contact with the floor before attaching the dishwasher to the countertop or cabinet. If the dishwasher is not leveled properly, the door may not close properly or water may leak.

WARNING

Installation brackets and screws can be found in the silverware basket. Use a magnetic screwdriver.

Cover the filter hole with towels to prevent screws from falling down into the pump.

Securing Dishwasher to Countertop



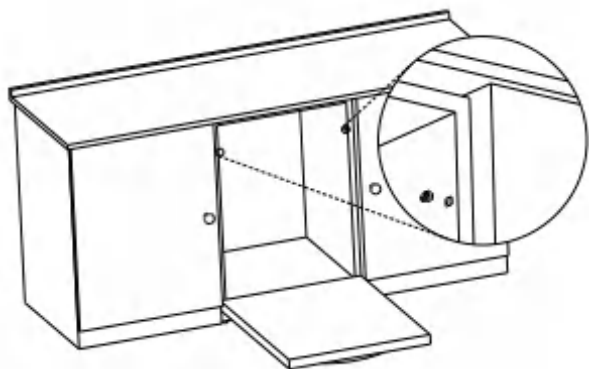
Use the bracket screws provided to secure the brackets at the top of the dishwasher to the underside of the wood countertop.

INSTALLATION INSTRUCTIONS

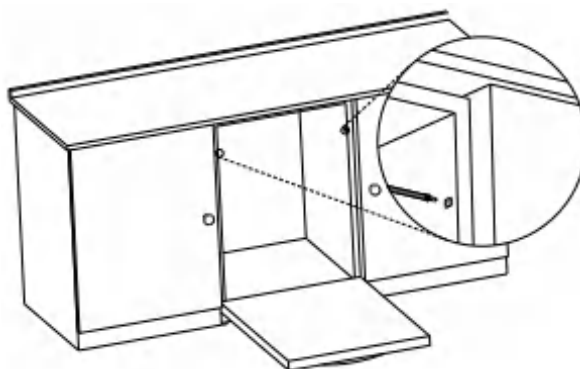
Securing Dishwasher to Cabinet Frame

If desired, the dishwasher can also be secured to the cabinet frame using the instructions which follow.

1 Remove the 2 plastic caps from the mounting bracket access holes.

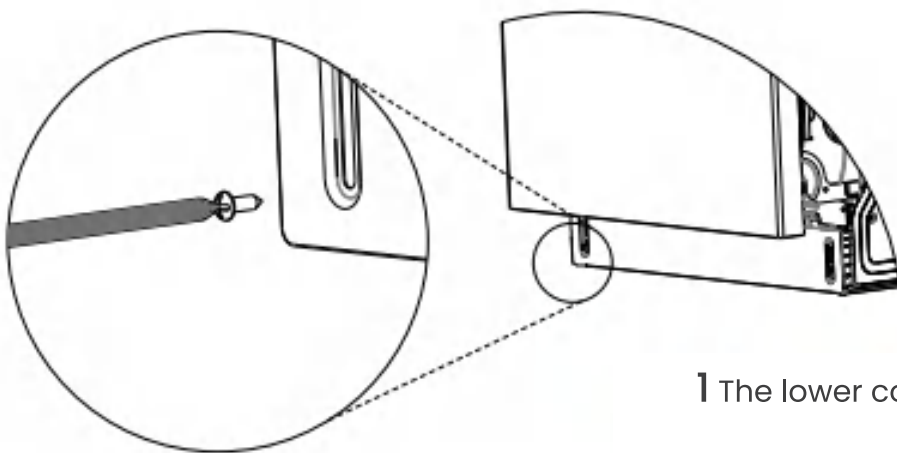


2 Drive a wood screw through the mounting bracket and into the cabinet frame.



3 Reinstall the plastic caps.

Reinstall access panels and fasteners



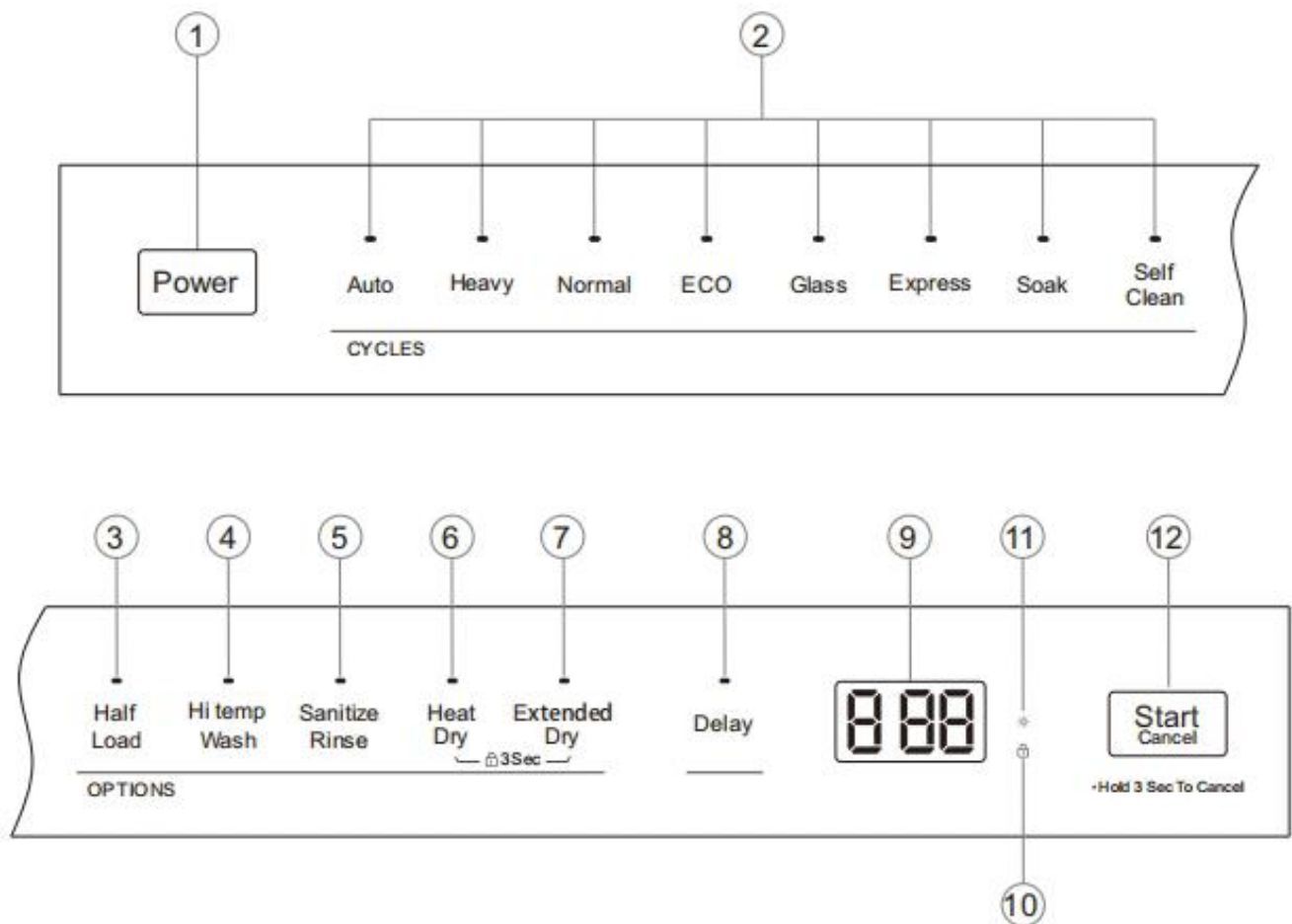
1 The lower cover is close to the floor

2 Alignment of installation holes

3 Fix with screws

Success! Your installation is now complete

OVERVIEW OF PROGRAMS



1. Power: Power ON/OFF button.

2. Cycles: With the dishwasher door open, touch the CYCLES button to select the washing cycle. Related light will be on when that cycle is selected.

3. Half Load: This option is to wash less loading dishes, that to use less water and energy for washing.

4. Hi temp Wash: When Hi Temp Wash option is selected, that water will be heated to be around 60°C (140°F) max. This is to be well clean the heavy soiled dishes.

5. Sanitize Rinse: When Sanitize is selected, the temperature of water will be maintained at 156.2°F (69°C) max.

6. Heat Dry: When Heat Dry is selected, the heater will work during the drying process.

7. Extended Dry: When Extended Dry is selected, the heater will operate for a longer period during the drying process.

OVERVIEW OF PROGRAMS

8. Delay: The Delay option allows you to automatically delay starting your dishwasher from 1-24 hours. To start 1-24 hour delay, press the Delay button until the desired delay time shows in the display window (1h-24h) and press the START/Cancel button. A light will come on indicating the delay start has been activated and will remain on until the cycle starts. To cancel the Delay option and begin the cycle before the delay period is over, press the Start/Cancel button and hold for 3 seconds.

9. Display window: This LED screen displays minutes remaining in a running cycle, hours of delay before the unit is set to start, error codes, etc.

- If the machine is in operation, the remaining time (mins) of the selected cycle will be shown in the display window.
- If the Delay option is selected, the number of hours of delay (1h-24h) will be shown in the display window. After the machine starts, the remaining time of the selected cycle will be shown in minutes on the display window.

10. Child lock: Use to lock all controls and prevent children from accidentally changing the dishwasher cycle or starting the dishwasher. Press and hold both Half Load and Auto Open button at the same time, for 3 seconds to lock. After the function is selected the control lock icon will illuminate. Press and hold both Half Load and Auto Open button again for 3 seconds to unlock.

11. Rinse Aid Light: To come on when dispenser needs to be refilled.

12. START: Press START and close door within 4 seconds to start a wash cycle.

CANCEL: Press CANCEL to cancel a cycle that is already in progress.

OVERVIEW OF PROGRAMS

Program

Wash cycle table

Program	Cycle Selection Information
Auto	This cycle senses the load size, soil amount and soil toughness and is optimized to achieve the best cleaning.
Heavy	Use this cycle for heavily soiled and hard to clean dishes.
Normal	Use this cycle for normally soiled, everyday loads.
ECO	For normally soiled loads used every day, washing longer to save water and energy.
Glass	For lightly soiled loads, such as plates, glasses, bowls and lightly soiled pans.
Express	A shorter wash for lightly soiled loads that do not need drying.
Soak	This program can be used to flush in a shorter amount of time Wash dishes.
Self Clean	This program can be used to clean the interior of the dishwasher.

USING RINSE AID

We highly recommend using liquid rinse aid regularly to get the best drying results. Rinse aid gives a streak-free, sparkling clean look to glass and chinaware. In addition, it prevents metal from tarnishing.

When to refill the rinse aid dispenser

When rinse aid level becomes low, the rinse and salt indicators will be on to remind you.

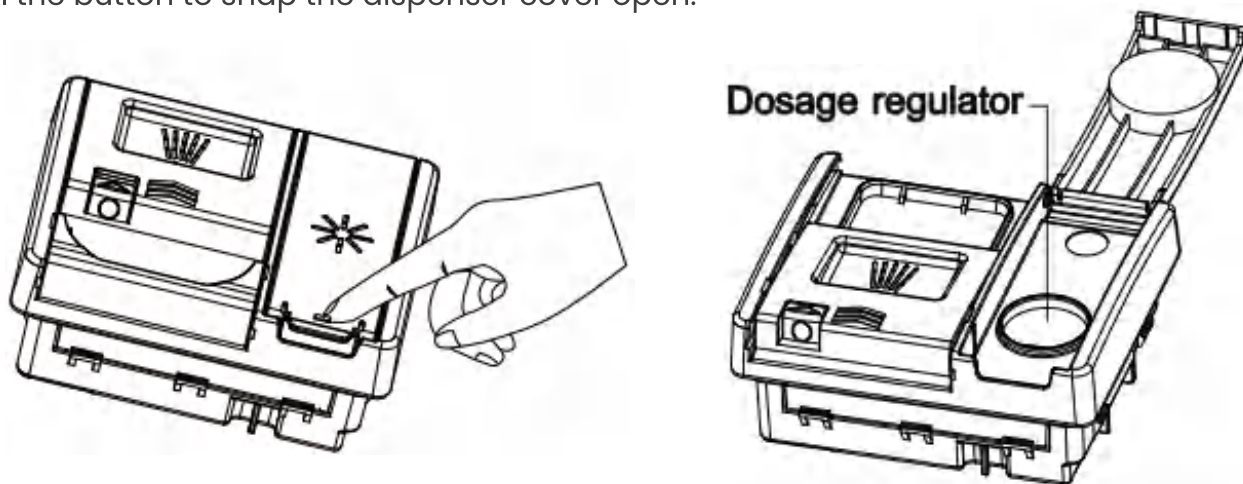
Adjusting the rinse aid dosage

The normal, factory-set dosage level is R3, but you may need to adjust this to suit your water conditions.

- If there is excessive foaming at the end of the wash, reduce the dosage.
- If you live in a hard water area or if dishes are wet or streaky after drying, increase the dosage.
- To adjust the rinse aid setting:
- If you are using tablets with built-in rinse aid, we recommend setting the rinse aid dosage level to off (R1).

How to refill the rinse aid dispenser

1 Pull the button to snap the dispenser cover open.



2 Pour rinse aid into the circular opening, making sure not to fill beyond the MAX marking.

IMPORTANT!

Take care not to spill rinse aid into the dishwasher. Any spills must be wiped up to prevent excess foaming. Failure to do so may result in a service call, which will not be covered by warranty.

3 Close the cover, making sure it clicks shut.

LOADING UTENSILS

IMPORTANT!

Never put highly absorbent materials, such as sponges and towels in your dishwasher. Do not put dishes or cutlery that have been soiled by tobacco ash, wax, lubricating grease or paint in your dishwasher.

Cutlery and silverware

All cutlery and silverware should be rinsed immediately after use to prevent tarnishing caused by some foods. Silver items should not come into contact with stainless steel, e.g. other cutlery. Mixing these items can cause staining. Remove silver cutlery from the dishwasher and hand dry immediately after the programme has finished.

Aluminium

Aluminium can be dulled by dishwasher detergent. The degree of change depends on the quality of the item.

Other metals

Iron and cast iron objects can rust and stain other items. Copper, pewter and brass tend to stain. Wash these items by hand.

Woodware

Wooden items are generally sensitive to heat and water. Regular use in the dishwasher may cause deterioration over time. If in doubt, wash by hand.

Glassware

Most everyday glassware is dishwasher safe. Crystal, very fine and antique glassware may etch that is, become opaque. You may prefer to wash these items by hand.

Plastic

Some plastic may change shape or colour with hot water. Check the manufacturer instructions about washing plastic items. Washable plastic items should be weighted down so they do not flip over and fill with water or fall through the basket during the wash.

Decorated items

Most modern china patterns are dishwasher safe. Antique items, those with a pattern painted over the glaze, gold rims or hand-painted china may be more sensitive to machine washing. If in doubt, wash by hand.

Glued items

Certain adhesives are softened or dissolved in machine washing. If in doubt, wash by hand.

LOADING UTENSILS

If the tableware or cookware rack is burnt, scorched, sticky, and other food which is very difficult to removed, it is advisable to soak it for a period of time before washing it or pre-dispose it with a dish cloth or else it will be hard to clean. Remove any large food particles before placing dishes in the dishwasher. It is not necessary to pre-rinse utensils under running water.

Attention before or after Loading the Dishwasher Baskets

1. Scrape off any large amounts of leftover food. It is not necessary to rinse the dishes under running water. Place objects in the dishwasher in the following way:
 - A. Items such as cups, glasses, pots/pans, etc. are stood upside down.
 - B. Curve items, or those with recesses, should be at a slant so that water can run off.
 - C. They are stacked securely and can not tip over.
 - D. They do not prevent the spray arms from rotating while washing takes place.
2. Very small items should not be washed in the dishwasher as they could easily fall out of the Baskets.
3. The upper and lower baskets can not be pulled out in the same time when the dishwasher is Loading, or it may lead to dumping.

Removing the Dishes

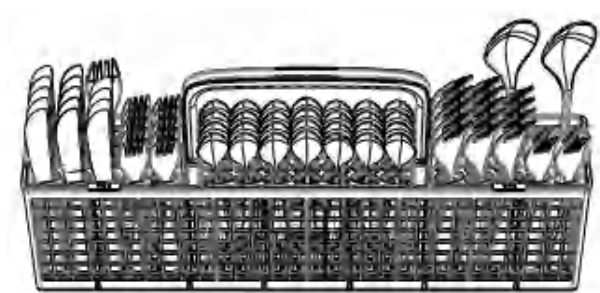
To prevent water dripping from the upper basket into the lower basket, we recommend that you empty the lower basket first and then the upper basket.

Loading the Upper Basket

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

Loading the Cutlery Basket

Loading 14 Place Settings

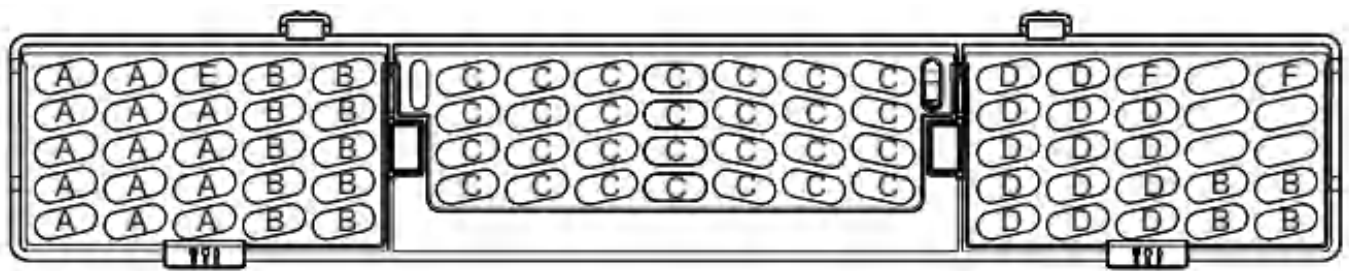


- Mix spoons with other cutlery to prevent them to bond together.
- Use the grid element in order to separate the cutlery.
- Place Cutlery with the handles down for better washing results.
- If long items may block the spray arms find a horizontal positioning in the upper basket.

WARNING

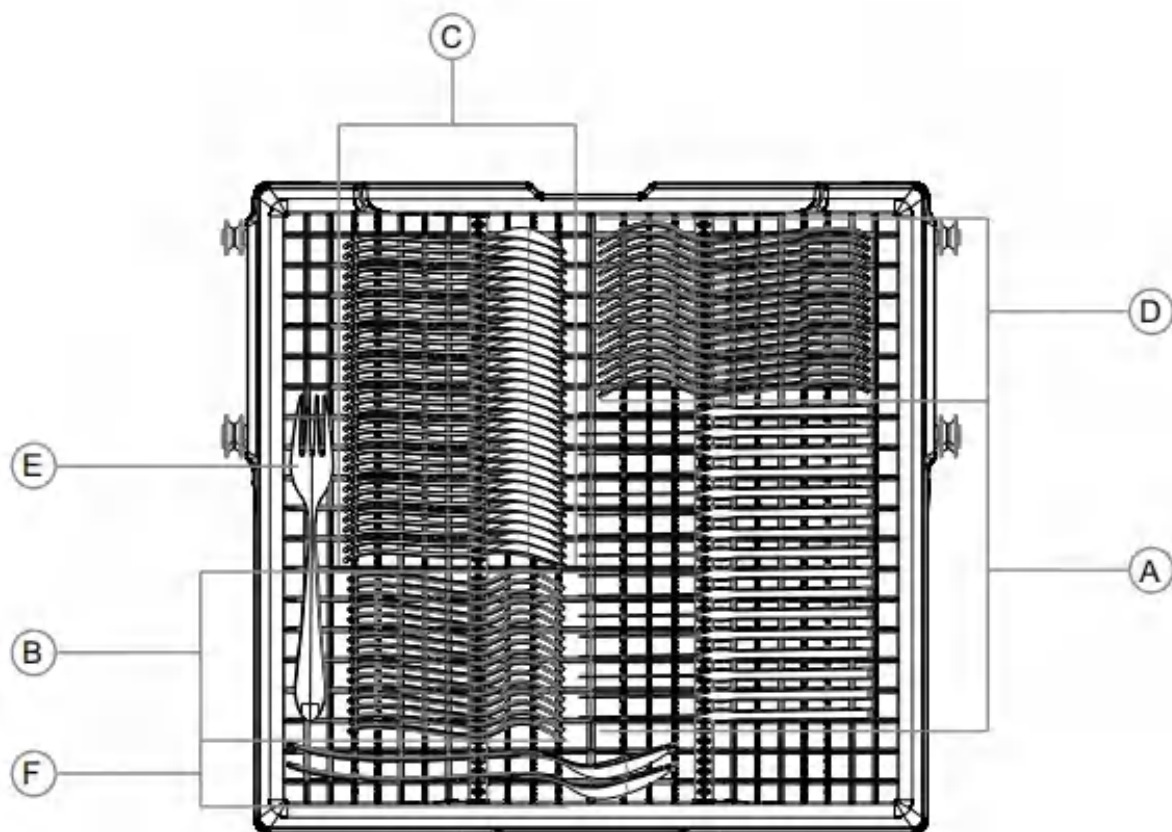
Put sharp and pointed items with the blade pointing downward to keep them out of harm's way.

LOADING UTENSILS



Loading the Top Cutlery Basket

Loading 16 Place Settings



A. Knife-solid handle

B. Salad fork

C. Teaspoon

D. Dinner fork

E. Serving fork

F. Serving spoon

LOADING UTENSILS

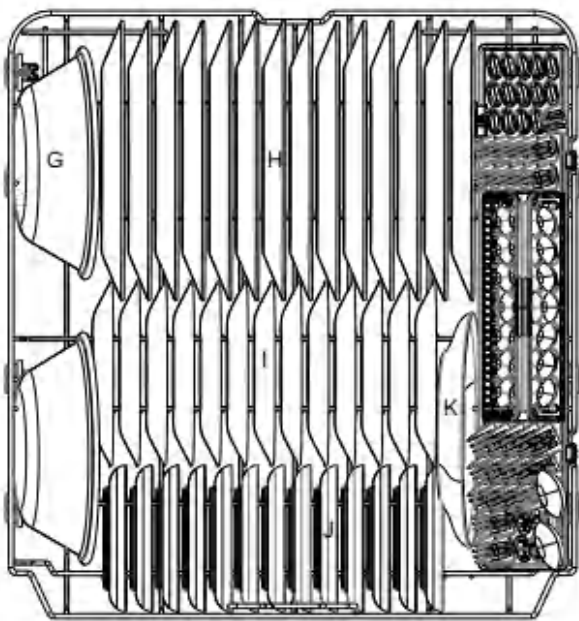
Loading the Lower Basket

We recommend that you place large items which are most difficult to clean in to the lower basket: pots, pans, lids, serving dishes and bowls, as shown in the figure below. It is preferable to place serving dishes and lids on the side of the baskets in order to avoid blocking the rotation of the top spray arm.

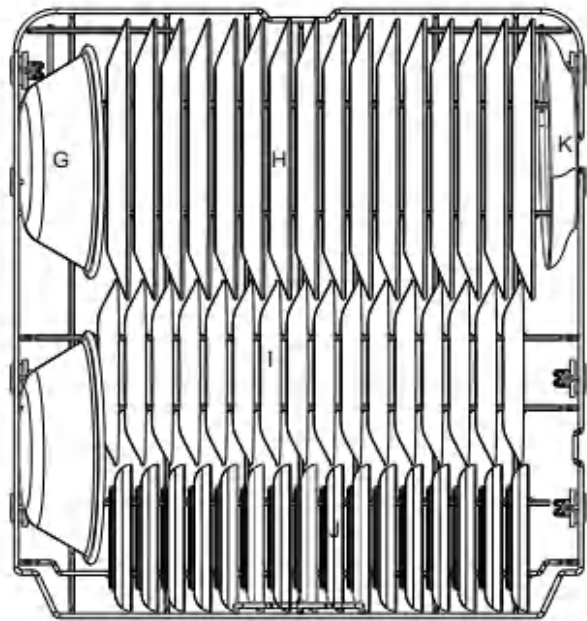
Pots, serving bowls, etc. must always be placed top down. Deep pots should be slanted to allow water to flow out.

Place the largest items here: pots, pans, lids, serving dishes and bowls. Fold down the tines to place pots and pans flat on the bottom. Ensure dishware items do not block the spray arm above from rotating. If you need more height for tall items you can raise the upper basket. See instructions on previous pages.

Loading 14 Place Settings



Loading 16 Place Settings



G. Serving bowl

H. Dinner plate

I. Bread and butter plate

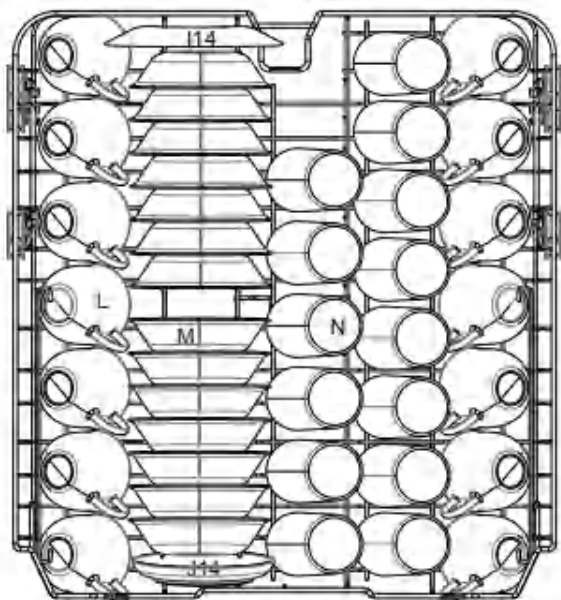
J. Saucer

K. Serving platter

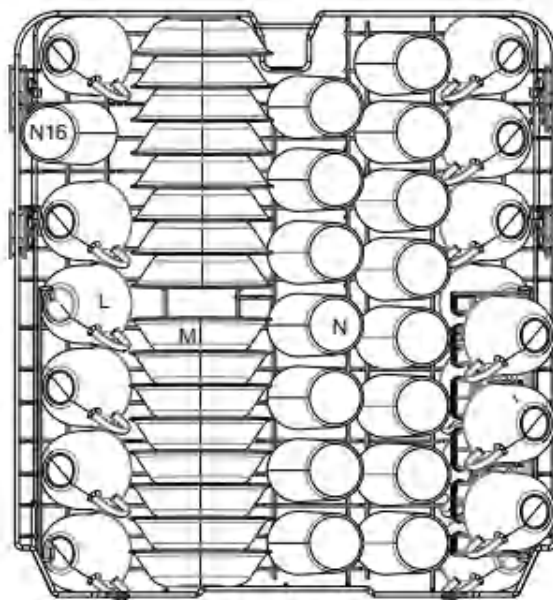
LOADING UTENSILS

Loading the Upper Basket

Loading 14 Place Settings



Loading 16 Place Settings



L. Coffee cup

M. Fruit bowl

N. Glass

LOADING UTENSILS

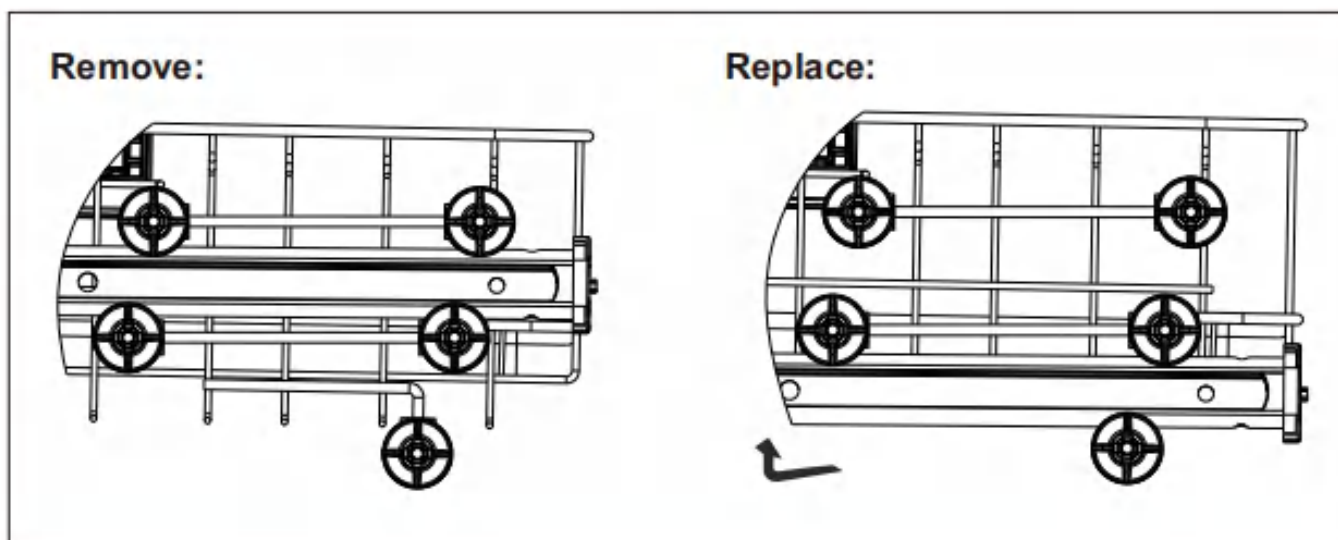
Adjusting the Upper Basket

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

To adjust the upper rack:

IMPORTANT!

Before you adjust its height,make sure the basket is empty.



IMPORTANT!

Place sharp and pointed items with the blade pointing downward into the knife rack,to keep them out of harms way.

HOW TO MAKE SAVINGS

Tips on how to save money and not damage the environment when using your appliance.

- Achieve the best use of energy, water, detergent and time by using the recommended maximum load size. Save up to 50% energy by washing a full load instead of 2 half loads.
- If you want the dishwasher to give a complete wash, place the dishes in the dishwasher at the end of each meal and if necessary turn on the COLD RINSE cycle to soften the food remains and remove bigger particles of food from the new load of dishes. When the dishwasher is full start the complete wash cycle programme.
- If the dishes are not very dirty or if the baskets are not very full select an ECONOMY programme, following the instructions in the program list.
- The most efficient programmes in terms of combined use of water and energy are usually the longer-lasting ones with lower temperature.

ADDING DETERGENT

IMPORTANT!

- Only use detergents recommended for automatic dishwashers
- Dishwasher detergents are strongly alkaline. They can be extremely dangerous if swallowed. Avoid contact with the skin and eyes and keep children and infirm persons away from the dishwasher when it is open. Check that the detergent dispenser is empty after completion of each wash programme.
- Never sprinkle or pour detergent directly onto any item in the dishwasher. Detergent and dishwasher tablets should not be in direct contact with dishes or cutlery. Do not use hand washing liquids, soap, laundry detergents or disinfectants, as these will damage the dishwasher.

Filling the detergent dispenser

1. Pull the button on the right of the dispenser.

IMPORTANT!

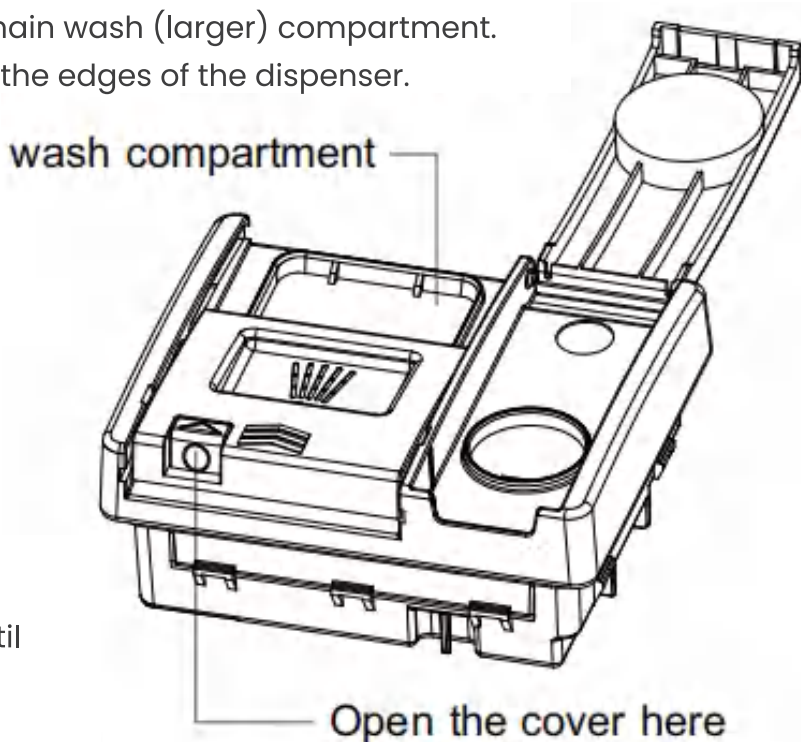
Approach the dispenser from the right-hand side to prevent the cover from snapping open on your hand.

2. Add detergent into the appropriate compartment(s). The '15' and '25' markings in the main wash compartment correspond to grams of powdered detergent.

IMPORTANT!

Tablets should only be placed in the main wash (larger) compartment.

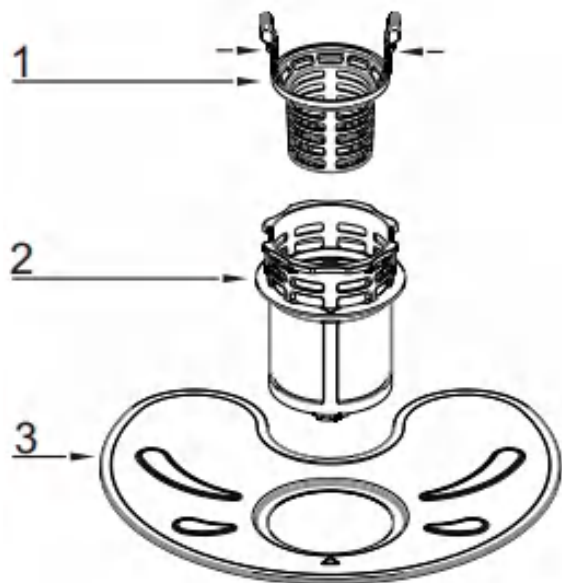
3. Remove any excess detergent from the edges of the dispenser.



4. Close the cover and press down until it clicks shut. The detergent will automatically be released into the dishwasher during the wash programme.

MAINTENANCE AND CLEANING

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



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

1 Coarse filter

Big debris, such as bone and glass that could clog the drain will be trapped in the coarse filter.

To remove an item caught in this filter, gently squeeze the taps on the top of this filter and lift it out.

2 Micro filter

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

- Inspect the filters for obstructions every time the dishwasher has been used.

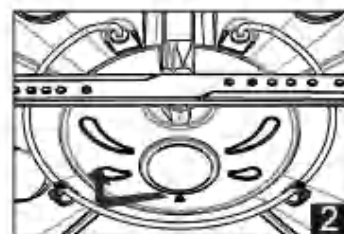
- By unscrewing the micro filter, you can remove the filter system. Remove any food remnants and clean the filters under running water

3 Flat filter

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



Step 1 control rotate the Micro filter ,and then lift it up;
Step 2: lift the Flat filter up.



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

Filter assembly

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

MAINTENANCE AND CLEANING

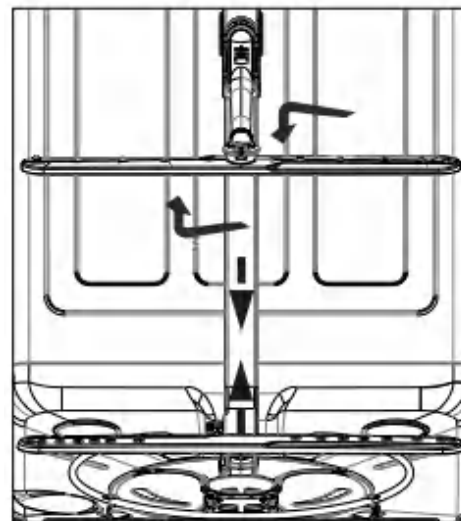
CAUTION

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

Cleaning the Spray Arms

It is necessary to clean the spray arms regularly for hard water chemicals will clog the spray arm jets and bearings.

To remove the spray arms, screw off the nut clockwise to take out the washer on top of the spray arm and remove the arm. Wash the arms in soapy and warm water and use a soft brush to clean the jets. Replace them after rinsing thoroughly



Caring for the Dishwasher

To clean the control panel, use a lightly dampened cloth then dry thoroughly.

To clean the exterior, use a good appliance polish wax.

Never use sharp objects, scouring pads or harsh cleaners on any part of the dishwasher.

Protect Against Freezing

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

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

Cleaning the Door

To clean the edge around the door, you should use only a soft warm, damp rag.

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

WARNING

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

TROUBLESHOOTING TIPS

ERROR CODES

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

Codes	Meaning	Possible Cause
E1	Water inlet warning	1. Part damage (inlet valve damage, flow meter damage). 2. No water flow in (water tap not on, inlet pipe not connected to the inlet valve). 3. Line break (conductor connector of flow meter is off).
E3	Heater warning	1. Heater fault, or temperature controller on the heater is off, 2. The low-level protection switch cannot be closed.
E4	Water leakage	Water leaks, and flows to the bottom cover.
E5	Water temperature warning	Temperature of water over exceeds setting value or temperature sensor fault.
E6	Temperature sensor warning	Open circuit or short circuit of temperature sensor.
Ec	Communication failure	Please ask professional maintenance personnel for maintenance.

In case of any error, the appropriate code on the dishwasher control panel flashes and the buzzer rings.

WARNING

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

TROUBLESHOOTING

Before Calling for Service

Reviewing the charts on the following pages may make you be free of calling for service.

Problem	Possible cause	Troubleshooting
The dishwasher does not run	Power supply is not turned on	Ensure the power plug has correctly connected to power source. Ensure the dishwasher has been powered on and the door is well closed.
	Water pressure is low	Check the water supply equipment and ensure the faucet is turned on.
Noise	Tableware in the basket not well placed drops off and collides with the sprayer	Well place each tableware and avoid collision with the sprayer.
	Mechanical sound	Sound generated from water flow rinsing the tableware.
	Sound of the washing pump	The dishwasher is not used frequently. If so, ensure water inlet and discharge every week, which will help keep the sealing moisturized.
Bubble in tub	Improper use of detergent powder	To avoid bubble generation, please use detergent powder especially designed for dishwasher.
		If bubble generates, first open the dishwasher to let the bubble evaporate, close the machine door and start Fruit & Vegetable washing program to discharge water; repeat the above procedure until the bubble are cleared.

TROUBLESHOOTING

Problem	Possible cause	Troubleshooting
Dots and membrane substance on tableware	• Excessively hard water • Excessively low temperature of inlet water • Overload use of the dish washer • Incorrect loading • Use overdue or damp detergent • Wrong adding of detergent powder	Remove dots on glass cups • Take out all metal devices in the dishwasher • Do not add detergent powder • Choose the longest washing program • Start the dishwasher and operate for 18-22 minutes, then the machine will enter main washing process. • Open the dish washer, pour two spoons of vinegar into the bottom inner container. • Close the door of the dishwasher and complete the washing program. If the vinegar does not work, repeat the above procedure and use 1/4 spoon (60ml) of lemon juice crystal to replace the acetic acid.

TROUBLESHOOTING

Problem	Possible Causes	What To Do
Detergent left in dispenser cups	Dishes block detergent Cups	Re-loading the dishes properly.
	Spray arm running hard	Check if the spray arm is stuck and stop running.
	Error fill in detergent pre-washing Programme	See "fill the detergent".
Strike sound in tub	Dishes block spray arm	Stop the running programme and Re-loading the dishes properly.
	Improper loading	See "basket loading".
Dishes and flatware not clean	Short detergent	Add more detergent.
	Dishes block spray arm	Re-loading the dishes properly.
	Filter clogged	Check the filter system. See "filter cleaning".
	Dishwasher doesn't clean regularly	Clean dishwasher regularly see "dishwasher Maintenance"
Dishes and flatware not drying	Improper loading	Re-loading the dishes properly
	Short Rinse Aid	Add more or refill Rinse Aid
	Take out tableware early	Don't take out the cutlery immediately, open the door to release steam, then take out tableware as it not hot
	Improper Programme	"pre-wash" no drying function, choose other programme
	Used the bad surface treatment of tableware	These bad surface treatment tableware not suit for washing
Water standing on the tub	Normal phenomenon	Open the door a little to help drying after washing
Dishwasher leaks	Overfill dispenser or rinse aid spills	Be careful not to overfill the rinse aid dispenser. Spilled rinse aid could cause over sudsing and lead to overflowing. Wipe away any spills with a damp cloth.
	Dishwasher isn't level	Make sure the dishwasher is level.



Any Problem? Let Us Know.

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