Dishwasher Use & Care Manual



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1

Important safety instruction

WARNING

For your safety, the information in this manual must be followed to minimize the risk of fire or explosion, electric shock, and to prevent property damage, personal injury.

Proper installation

Please install your dishwasher properly follow the installation guide.

- Water supply temperature should be 120°F or 149°F.
- Dispose of the discarded appliance and packing material properly.
- The dishwasher must be grounded, or it can result in a risk of electric shock.
- If there is any damage of the Dishwasher, please contact to your Dealer, not to attempt to repair or replace any part by yourself.

Basic precaution before use

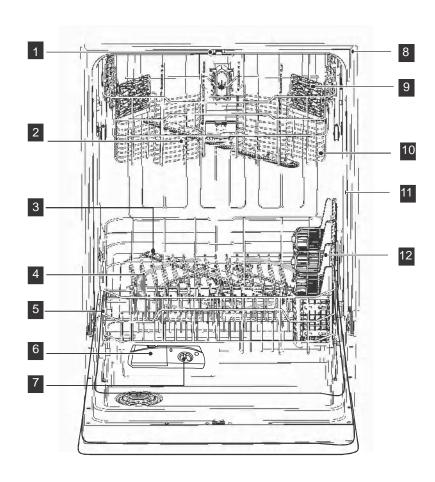
- Read all instructions before using the dishwasher.
- The manual does not cover every possible condition and situation that may occur.
- Use the dishwasher only for intended function as described in this manual.
- When loading items to be washed:
 - -Loadsharp items and knives so that they are not likely to damage the door seal and tub.
 - -Loadsharp items and knives with the handles up to reduce the risk of cut-typeinjury.
- Do not wash plastic items unless marked ishwasher safe or the equivalent, if not marked, check with manufacture for recommendation, items that are not dishwasher safe may melt and create a potential fire hazard.
- If the dishwasher drains into a food disposer, make suredisposer is completely empty before running dishwasher.
- Do not tamper with control.
- Do not operate your dishwasher unless all enclosure panels are in the properly place.
- Do not touch the heating element during or immediately after use, especially if the sanitize option has been selected.

- Do not let children abuse, sit or stand on door or racks of 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 sucha period, before using dishwasher, turn on all hot water faucets and let water flow from each for several minutes. This will release any accumulated hydrogen gas. Hydrogen gas is flammable. Do not smoke or use an open flame during this time.
- Do not store or use combustible materials, gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- Use only detergents or rinse agents recommended for use in a dishwasher and keep them out of the reach of children.
- Keep young children and infants away from dishwasher when it is operating.
- Do not use the dishwasher if it has a damaged power line or plug, and do not plug the dishwasher into a damaged outlet, failure to observe these instructions may result in electrical shock.
- Remove the door to the washing compartment when removing an old dishwasher from service or discarding it.

Features of your new dishwasher

Specification

Capacity	14 place settings	
Dimension	606 x 650 x 858 mm (Wx D x H)	
Weight	unpacked 91lb (41kg)	
Power Supply	120volts, 60Hz	
Rated power usage	Wash motor 95W Heater 840W	
Water Feed Pressure	20 ~ 120 psi (138~ 828kPa)	



- 1 Upper Spray Arm
- 2 Middle Spray Arm
- 3 Low Spray Arm
- 4 Heating Element
- 5 Bottom Rack
- 6 Detergent Dispenser

- 7 Rinse Aid Dispenser
- 8 Tub Gasket
- 9 Cup Shelf
- 10 Adjustable Upper Rack
- Serial Label (Locatedon right side of tub)
- 12 Silverware Basket

Features of your new dishwasher

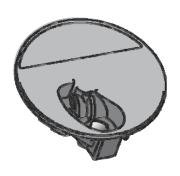
Features

Filter System

Your dishwasher has amultiple Filter System. In the System there are four filter—meshes. Itcan separate soiled water and clean water in different chambers. The multiple filter system helps your dishwasher to get better performance with less water and less energy.

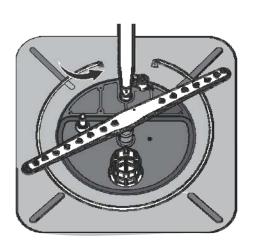
Adjustable Upper Rack

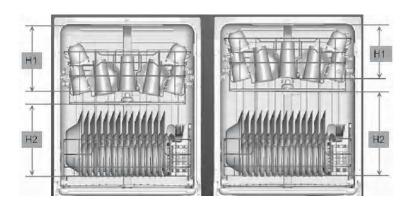
The Upper Rack can be raised or lowered to accommodate loading taller dishes in either rack. The Upper Rack clearance height H1 goes from 8" to 10". The Bottom Rack clearance height H2 is 11" to 13".

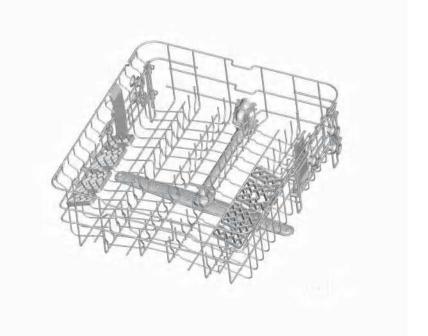


Smart Wash System

Your dishwasher has Smart Wash System. When a partial load of lightly soiled dishes is placed in the unit, a wash cycle similar to a short wash will automatically be performed. When a full load of heavily soiled dishes is placed in the unit, a heavy wash cycle will automatically be performed. I can determine the type of cycle required to clean the dishes and will clean more efficiently every time.







How your dishwasher cleans

Your dishwasher cleans by spraying a mixture of hot water and detergent through the spray arms against soiled surfaces.

The dishwasher fills with water covering the filter area. Water is then pumped through the multiple filter and spray arms. Separated soil particles go down the drain as the water is pumped out and replaced with clean water.

The number of water fills will vary with the cycle being used.

Getting Started

- 1. Load dishwasher (Seepreparing and loading dishes).
- 2. Add detergent (SeeFill detergent to the dispenser).
- 3. Add rinse aid, if needed (SeeFill rinse to dispenser).
- 4. Close door to latch.
- Select desired CYCLE (SeeCycle Chart). The indicator light above the pad will glow when selected.
- Select desired OPTIONS (SeeEnergy Options).
 The indicator light above the pad will glow when selected.
- 7. Run hot water faucet nearest dishwasher until water is hot.Turn water off.
- 8. To start, press Start/Cancel(See Start/Cancel)pad.

Your dishwasher has the front control panel. Your selections will only beactivated when the door is firmly closed.

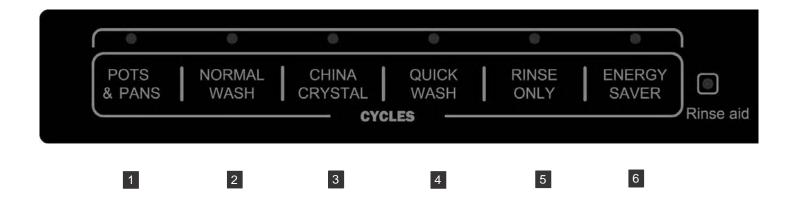
NOTE

The dishwasher is programmed to remember your last cycle so you do not have to reset each time. To start the dishwasher using the same cycle and options selected on the previous wash, just press the Start/Cancelpad.

Wash Cycle Selections

Cycle times are approximate and will vary with options selected. Hot water is necessary to activate dishwasher detergent and melt fatty food soils. An automatic sensor will check the incoming water temperature and if it is not hot enough, the timer will be delayed for automatic water heating in the main wash of all cycles. This happens even when HI-TEMPWASH is selected aneven higher temperature will be guaranteed to handle heavier soil loads.

Control panel



Wash Cycle Selections

Pots & PANS

This cycle is for hard—to—clean, heavily soiled dishes, pots, pans and dishes.

Normal wash

This cycle is for regularly soiled dinner dishes or silverware.

China crystal

This cycle is for lightly soiled china and crystal.

Quick wash

This cycle is for lightly soiled and pre-rinsed dishes and silverware.

Rinse only

This cycle is for pre-rinsing dishes or glasses. This is only a rinse that keeps food from drying on your dishes and reduces odor buildup in your dishwasher until you are ready to wash a full load. Do not use detergent.

ENERGY SAVER

For light solied or pre-rinsed dishes and sliverware.

Energy Option Selections

Heated Dry

This option is available on all cycles except rinse only. The Heated Dry option in combination with rinse aid will enhance drying performance. You can turn off by pressing Heated Dry so that the light goes off during the period of the washing.

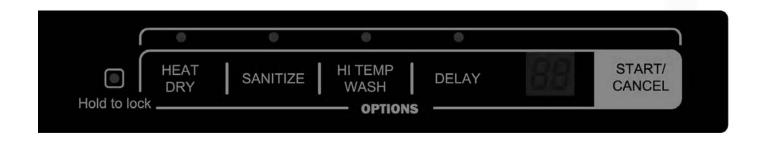
Sanitize

To sanitize your dishes and glassware, select the Sanitize option. When selected, the light above the pad will turn on and remain on until end of cycle. The water temperature in the final rinse will be raised. The option is available in Auto Wash, Pots&Wash and Normal Wash.

Hi-Temp Wash

This option can increase the water temperature in the main wash and rinse. This increase in water temperature helps the dishwasher detergent remove food, grease and soil from dishes more effectively. The option is available in Auto Wash, Pots&Wash and Normal Wash.

Operating dishwasher





Delay 10

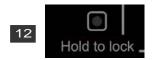
To delay the start of a selected cycle, press Delay Start pad until the desired delay time shows in the LED indicator it allows you to automatically start your dishwasher for a1 to 24 hour delay.

To cancel the Delay Start option and begin the cycle before the delay period is over pressthe Start/Cancel pad.

Start/Cancel

Push door firmly closed. The door latches automatically. Select the wash cycle and options desired, the indicator light above the pad will turn on. To start pressthe Start/Cancelkeyonce, the light will glitter and the wash action begins. To cancel when a cycle is running, press Start/Cancelpad once and the dishwasher will start a 60 second drain and then shut off. At the end of the drain, you can select the desired cycle.

When you want to load more dishes or pause the dishwasher while it is already running, make sure to open the door slowly and carefully as there is a possibility of injury from the hot steam inside the dishwasher. You an add more dishes before the main wash starts. Open the door and check the detergent dispenser. If the main wash section of the detergent dispenser is still closed, you can add items. If the door is openedwhile the dishwasher is running, a safety mechanismis activated and stops the cycle.



Child Lock 12 Hold to lock

You can lock all controls to prevent children from accidently changing the dishwasher cycle or starting the dishwasher.

Press and hold the Heated Dry pad for 3 Seconds thelock graphic light will turn on. To unlock the control press and hold the Heated Dry pad for 3 seconds, the lock graphic light will turn off.

Operating dishwasher

Status Window

01 - 24

If the Delay Start option is selected, the number of delay start hours shows in the Status Window. If the dishwasher is working and the wash cycle time is more than a hour, number of hours and minutes left shows alternately in the Status Window.

CL

Flashes once the program has been entered and the Start/Cancel key is pressed. It also flashes if the door is opened during a wash cycle. Close the dishwasher door to begin or continue a wash cycle.

MINUTES

Number of minutes left in a cycle (0–59or 1H–2H). It shows hours and minutes alternately.

NOTE

The time remaining could suddenly increase or drop several minutes. Thismeans the Smart Sensor has checked the soil level and determined if additional water fills are needed or if water fills can be deleted.

Error indication

In certain situations which are critical to the machines function and safe operation, the control shall shut down and indicate an error code $\rm Er$ (SeeError Codes on page 18).

If Er codes are displayed, contact the dealer or servicer. They will be able to provide assistance in trouble shooting the problem and or locate an authorized service technician if needed.

Cycle Chart

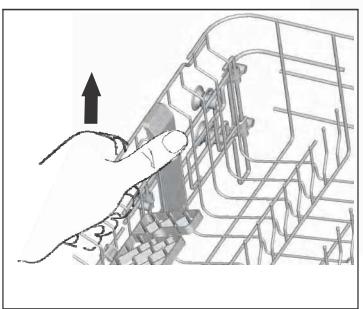
Cycle	To Select Cycle	Soil Level	Water	Time	Washes/
			(approx.)	(mins)	Rinses
	Select Pots & Pans and desired OPTIONS.	Heavy	22.8 liters	130	5 washes
					2 rinses
POTS & PANS		Medium	13.7 liters	120	3 washes
TOTS & LANS	HI-TEMPWASH will				1 rinses
	automatically be provided.	Light	13.7 liters	105	3 washes
		Ligiti			1 rinse
	Select Normal Wash and desired OPTIONS.	Heavy 2	22.8 liters	120	5 washes
			22.0 111613		2 rinses
NORMAL WASH		Medium	13.7 liters	110	3 washes
TVOTOWAL WAST					1 rinses
		1 ! - 4	Light 13.7 liters	105	3 washes
		Lignt			1 rinse
CHINA CDVSTAI	CHINA CRYSTAL Select China Crystal and desired OPTIONS.		10.5 liters	95	3 washes
CHINA CICTOTAL		10.5 111013	75	1 rinses	
Ouick Wash	Select Quick Wash and desired OPTIONS.	10.5	10.5 liters	70	3 washes
Quiok Wash			10.5 111013		1 rinses
Rinse Only	Select Rinse Only and	0.2 lita	9.2 liters 17	2 rinses	
	desired OPTIONS.		7.2 111013	17	2 1111562
ENERGY SAVER	Select Energy saver		22.8 liters	105	4 washes
LINLINGT SAVER	desired OPTIONS.		22.0 111013		1 rinse

Adjustable Upper Rack

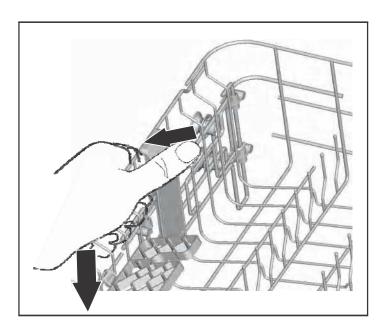
The upper rack height can be easily adjusted to accommodate loading taller dishes in either rack.

To accommodate taller dishes in the bottom rack, there are 2 positions available:

1. To aise the rack to the upper position, simply lift the rack . Thelever is spring loaded to engage the upper position.



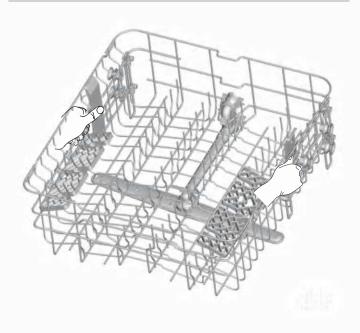
2. To lower the rack to the lower position, push the lever with your thumbs and push downward simultaneously. To ensure ease of adjustment when adjusting the rack, ensure that the rack remains level from front to back and side to side.





Note:

Height should be adjusted without dishes in the racks.



Dish Preparation

Scrape away large pieces of food, bones, pits, toothpicks, etc. The continuous filtered wash system will remove the remaining food particles. Burned–on foods shouldbe loosened before loading. Empty liquids from glasses and cups.

Foods such as mustard, mayonnaise, vinegar, lemon juice and tomato based products may cause discoloration of stainless steel and plastics if allowed to sit for a long period of time. Unless the dishwasher is to be opertated at once it is best to rinse off these food soils.

If the dishwasher drains into a food disposer, be sure disposer is completely empty before starting dishwasher.



Loading the Upper Rack

The upper rack is designed for cups, glasses, small plates, bowls and plastic items marked safe etc.

For best results, place the bowls, cups, glasses, sauce pans with soiled surface facing down or toward the center. Tilt slightly for better drainage.



Make sure the loaded dishes do not interfere with the rotation of the middle spray arm, which is located at the bottom of the upper rack. (Checkthis by rotating the middle spray arm by hand.)

Loading the Bottom Rack

The bottom rack is designed to load plates, soup bowls, plates, saucers and cookware. The adjustable rack space willallow you to load maximum 13 inch items.

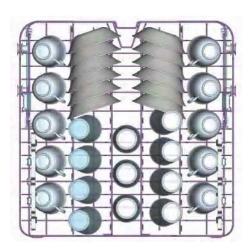


Large items should be placed along the edge so they do not interfere with the middle spray arm rotation, and make sure theynot prevent the detergentdispenser from opening.

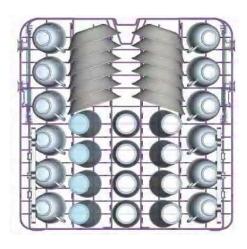
Large items should be turned so that the

Large items should be turned so that the inside faces downward, and make sure these items do not interfere with the lower spray arm rotation.

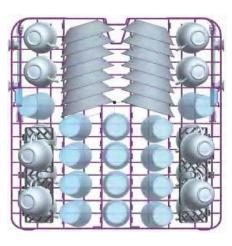
The fold-downtines in the bottom rack make iteasy to load those extra large and hard-to-fit items. The tines may be left up for normal use or folded down for more flexible loading. Fold down for more space to load large pots or pans.



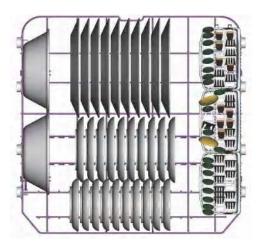
Upper Rack 10 place settings



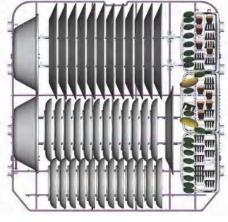
Upper Rack 12 place settings



Upper Rack 14 place settings



Bottom Rack 10 place settings



Bottom Rack 1





Bottom Rack

14 place settings

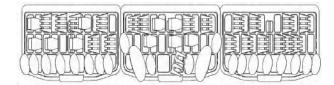
Preparing and loading dishes

Loading the Silverware Basket

The silverware basket could be divided into three separate modules that can be used in both upper and lower racks

- 1. Small forks
- 2. Spoons
- 3. .Knives
- 4. Smalforks
- 5. Largespoons
- 6. Largeforks









Be sure nothing protrudes though bottom of the basket or rack to block the lower spray arm.

Adding A Dish

To add or remove items after wash cycle starts:

- 1 Open door slightly and wait a few seconds until wash action stops before completely opening.
- 2 Add the item.
- 3 Close door firmly to latch and cycle will automatically resume.



CAUTION

TO AVOID BURN INJURY: Slightly open door and wait until spray arms and wash action stop. Hot water may splash out of dishwasher. Failure to do so may result in injury.

Filling the rinse aid dispenser

Rinse aid greatly improves drying and reduces water spots and filming. Without rinse aid your dishes and dishwasher interior will have excessive moisture. The Heated Dry option will not perform as well without rinse aid. The rinse aid dispenser, located next to the Detergent cup, automatically releases a measured amount of rinse aid during the last rinse.

If spotting and poor drying is a problem, increase the amount of rinse aid dispensed by rotating the dial to a higher number. The dial is located under the dispenser cap.

If the rinse aid is low, the Rinse Aid light is illuminated at the beginning and end of the cycle indicating that it is time to refill.

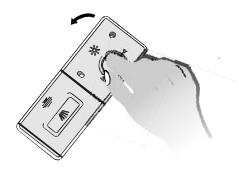
Preparing and loading dishes

Filling the rinse aid dispenser

 $\underline{\Lambda}$

Your dishwasher is designed to use a liquid rinse aid. Theuse of rinse greatly improves drying performance after the final rinse. Donot use a solid or bar-type rinse aid. Under normal conditions, the rinse aid will last approximately one month, try to keep it full, but do not over fill.

1. Open the door, turn the dispenser cap to left and lift it out.

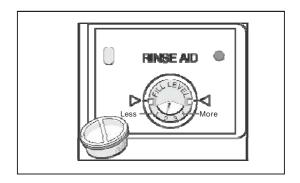


2. Add rinse agent until the indicator point to max

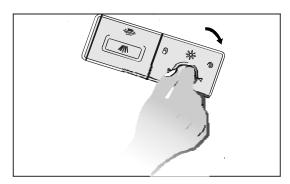


3. You can adjusthe amount of the rinse aid released during the

rinse operation, the greater number indicates the larger amount of rinse aid released.

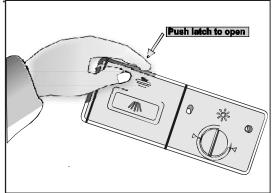


4. Replace the dispenser cap

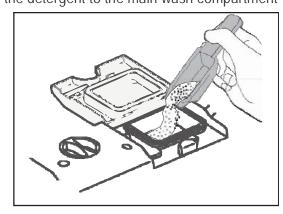


Filling the detergent dispenser

1. Push the dispenser cover latch downwards and open it

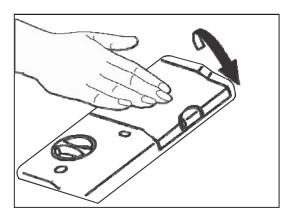


2. Add the detergent to the main wash compartment



Preparing and loading dishes

3. Close the dispenser cover



The amount of the detergent needed depends on the cycle and soil level of dishes, refer to the table below and adjust the recommended amount as necessary for your load.

Cycle	Soft Water (0-3 Grains)	Medium Hard Water (4–8 Grains)	Hard Water (9–12 Grains)	Very Hard Water* (Over12 Grains)
Auto wash, Pots&wash, Normal wash	2 Teaspoons (MainWash Cup- 1/4Full)	5 Teaspoons (MainWash Cup – fill to line above "Regular")	8 Teaspoons (MainWash Cup Completely Full)	Each Cup – Completely Full (WaterSoftener Recommended)
Quick wash, China crystal	2 Teaspoons (Main Wash Cup-1/4 Full)	5 Teaspoons (MainWash Cup fill to line above "Regular")	8 Teaspoons (MainWash Cup completely full)	Main Wash Cup – Completely Full (WaterSoftener Recommended)
Rinse	No Detergent	No Detergent	No Detergent	No Detergent (Water Softener Recommended)

Cleaning the exterior door and panel

Stainlesssteel panel

Clean the stainless steel door and handle regularly to remove the debris with cleaning soft cloth.

Do not use appliance wax, polish, bleach or products containing chlorine to clean the stainless steel door.

2. Controlpanel

Clean the control panel with a lightly dampened cloth, clean it gently.

Clean the Stainless Steel Inner Door and Tub

The tub is made of Stainless Steel, it will not rust or corrode if the dishwasher should be scratched or dented.



Clean the spots on the steel inner door and tub with a damp nonabrasive cloth.

Clean the Cylinder Filter

The Cylinder Filter is designed to collect some big items such as broken glass, bones and pits. The Cylinder Filter needs to be cleaned to maximize wash performance.

Remove the bottom rack, rotate the cylinder filter as shown, lift it out, empty and clean it by holding it under running water and replace.

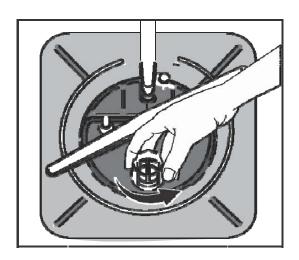


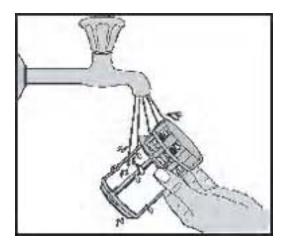
WARNING

Burn Hazard

Allow heating element to cool before cleaning the interior.

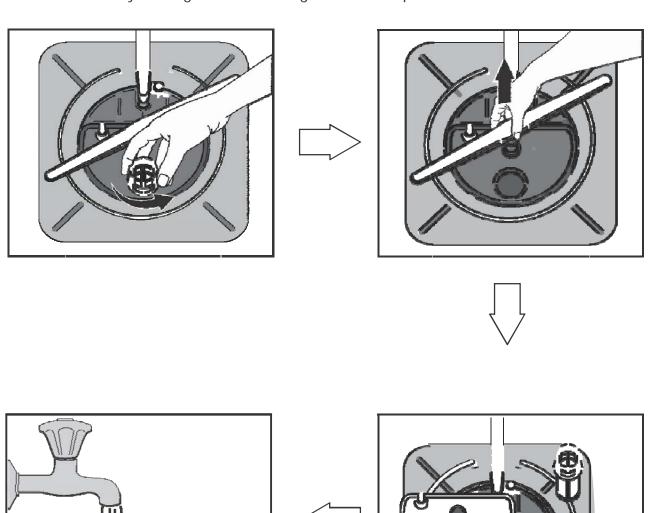
Failure to do so can result in burns.





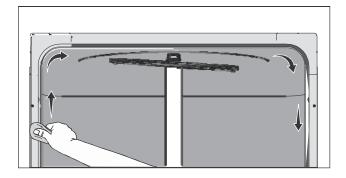
Clean the Fine Filter

Take out the Cylinder Filter and remove the Fine Filter from the dishwasher tub bottom. To remove the Fine Filter you must first remove the bottom spray arm as shown below. Flush the Fine Filter by holding it under running water and replace.



Clean the door gasket

Clean the door gasket with a damp cloth to remove food particles regularly.



Air gap

If there is an air gap installed with your dishwasher, make sure it is clean so the dishwasher will drain properly.

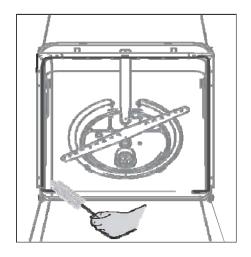
Air gap is not part of your dishwasher.

Before you clean the air gap, turn off the dishwasher firstly and lift off the cover

Remove the plastic cap and clean with a toothpick.

Inside

The inside of the dishwasher is self-cleaningwith normal use. If needed, clean the tub gasket with a damp cloth and use a brush similar to the ones shown below to clean the opening in the end of the gasket.



Protect against freezing

Your dishwasher should be protected from freezing properly if it was left in an unheated place Havea qualified person do the following:

To Disconnect Service:

- 1. Turn off electrical power to the dishwasher at the supply source by moving fuses or tripping circuit breaker.
- 2. Turn off the water supply
- 3. Place a pan under the inlet valve. Disconnect water line from inlet valve and drain into pan.
- 4. Disconnect drain line from pump and drain water into pan.

To Restore Service:

- 1. Reconnect the water, drain and electrical power supply.
- 2. Turn on water and electrical power supply.
- 3. Fill both detergent cups and run dishwasher through
- a Heated-Washcycle.
- 4. Check connections to make sure they do not leak.

Troubleshooting

before calling for service

Problem	Possible cause	Solution
	Door may not be closed properly	Shut the door completely make sure it is latched
	Power supply or power line is not connected	Check and connect the power supply
Dishwasher won't start	Delay Start option has been selected	Refer to Delay Start section in this manual to rese
	Child Lock activated (selected models)	Deactivate the child lock, refer to child lock section in this manual
Dishwasher beeps at the end of the cycle	It indicates the wash cycle finished, the dishwasher will beep	
Rinse Aid light on	The rinse aid level is low	Add rinse aid
Dishwasher operates too long	The dishwasher is connected to cold water	Check the dishwasher, make sure it connected to the hot water supply
	The cycle time will vary due to the soil	When heavy soil is detected, the auto, normal, pots&pan cycle will automatically increase the cycle time
	The sanitize option is selected	When sanitize option is selected, the cycle time will be increase to meet the sanitized temperature request
	Water pressure is temporarily low	Use you dishwasher when the water pressure is normal
	The inlet water is low	Make sure the dishwasher is connected to the hot water supply
		Try not use your dishwasher when hot water is being used elsewhere in the house
Dishes are not clean	Dishes are loaded too close together	Load the dishes again as the manual introduced
enough	improper use of detergent	Add detergent depending on the water hardness and the cycle you chose. Use fresh detergent.
	The selected cycle is not suitable for food soil condition	Choose anther cycle for longer washing time
	Spay arms is blocked by some items	Make sure the spay arm is rotated fluently
	Detergent dispenser is empty	Fill rinse aid dispenser or increase the amount of rinseaid.
Dishes not drying enough	Improper loading of dishes	Load the dishes again as the manual introduction
	The cycle you chose did not included the drying.	Choose the proper cycle with drying
Spots and filming on dishes	Water hardness is too high	For extremely hard water install a water softener
	Improper loading of dishes	Load the dishes again as the manual indicates
	Old or damp powder rinse aid is used	Use fresh rinse aid
	Rinse dispenser empty	Add rinse aid to the dispenser
Etching	Using too much detergent	Use less detergent if you have soft water
	The inlet water temperature exceeds 150 $^{\circ}\mathrm{F}$	Lower the inlet water temperature
Detergent left in	Detergent may be too old	Use fresh detergent
dispenser cup	Spray arm is blocked	Load the dishes, making sure the spray arms are notblocked.

Troubleshooting

Problem	Possible cause	Solution	
Detergent dispenser will not shut	Improper operation of the detergent cover	Add the detergent and rinse aid as indicated by the manual	
Water remains in the dishwasher	Previous cycle has not finished orhas been interrupted	Select the proper cycle as introduced by the manual	
Dishwasher does not drain properly	Drain is clogged	Check the air gap if you have Make sure the disposer is empty if the dishwasher is connected to the disposer	
aram property	Drain hose is kinked	Make sure the drain hose is properly connected to the sink	
Suds in the tub	Improper detergent is used	Make sure to use only the automatic dishwasher detergent	
Dishwasher leaks	Excessive suds caused by using the improper detergent	Make sure to use only the automatic dishwasher detergent	
	Dishwasher is not level	Leveling the dishwasher (seethe installation manual)	
Black or gray marks on dishes	Aluminum utensils have rubbed against dishes	Chose a higher cycle Make sure the inlet water is no less than 120°F	
	Coffee and tea soil	Using a spot cleaner to remove the soil	
Stained tub interior	Reddish stain	Some tomato food will cause this, use of the rinse only cycle right after loading this will decrease the staining	
	Detergent cup opening\Drain pump sound	This is normal	
Noises	A hard object has entered the wash module. When the object is ground up, the sound should stop.	If the noise persists after a complete cycle, call for service.	
Dishwasher won't fill	Water valve is turn off	Check if the water valve is turn on	
DISTIWASHEL WOLL IIII	Door latch may not be properly seated	Make sure the door is closed	

Error code

Error code	Meaning	Solution
Er	Any pad was pressed for 1 minute	Check switch on the pcb or replace them
E6	The thermistor sensor can't work	Check thermistor sensor wire or replace the sensor
E7	The thermistor sensor can't work	Check thermistor sensor wire or replace the sensor
E3	The temperature of the inner water hasn't reached the destined point	Check heating element and thermistor sensor or replace them