

DISHWASHER

MODEL: SDW4523MS



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Dishwasher: Model SDW4523MS

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PRODUCT SUPPORT

If you have questions about the setup or operation of your product, please refer to the corresponding section within this manual.

Additionally, visit www.sharpusa.com/support to access exclusive content about your product including:

- FAQ's and How-To Videos
- Find or Request Service
- Extended Warranty Options
- Downloads including the Installation Guide, Spec Sheet, and Owner's Manual

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If at any time you have questions or comments concerning your SHARP product, please contact the SHARP Customer Assistance Center. We are available to assist you through multiple contact methods for your convenience:

 EMAIL Available 24/7 US: sharpusa.com See the Contact Us section on our sites	 CHAT ONLINE U.S. www.sharpusa.com/support	 CALL US US 800-BE-SHARP 800-237-4277 Contact a Sharp Advisor on the phone
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CONSUMER LIMITED WARRANTY

SHARP ELECTRONICS CORPORATION ("Sharp") warrants to the first consumer purchaser that this Sharp brand product (the "Product"), when shipped in its original container, will be free from defective workmanship and materials, and agrees that it will, at its option, either repair the defect or replace the defective Product or part thereof with a new or remanufactured equivalent at no charge to the purchaser for parts or labor for the period(s) set forth below.

This warranty does not apply to any cosmetic or appearance items of the Product nor to the additional excluded item(s) set forth below nor to any Product the exterior of which has been damaged or defaced, which has been subjected to misuse, abnormal service, or handling, or which has been altered or modified in design or construction. In order to enforce the rights under this limited warranty, the purchaser should follow the steps set forth below and provide proof of purchase to the servicer.

The limited warranty described herein is in addition to whatever implied warranties may be granted to purchasers by law. ALL IMPLIED WARRANTIES INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR USE ARE LIMITED TO THE PERIOD(S) FROM THE DATE OF PURCHASE SET FORTH BELOW. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

Neither the sales personnel of the seller nor any other person is authorized to make any warranties other than those described herein, or to extend the duration of any warranties beyond the time period described above on behalf of Sharp. The warranties described herein should be the sole and exclusive warranties granted by Sharp and should be the sole and exclusive remedy available to the purchaser. Correction of defects, in the manner and for the period of time described herein, should constitute complete fulfillment of all liabilities and responsibilities of Sharp to the purchaser with respect to the Product, and should constitute full satisfaction of all claims, whether based on contract, negligence, strict liability or otherwise. In no event should Sharp be liable, or in any way responsible, for any damages or defects in the Product which were caused by repairs or attempted repairs performed by anyone other than a Sharp authorized servicer. Nor should Sharp be liable or in any way responsible for any incidental or consequential economic or property damage. Some states do not allow the exclusion of incidental or consequential damages, so the above exclusion may not apply to you.

THIS LIMITED WARRANTY IS VALID ONLY IN THE FIFTY (50) UNITED STATES, THE DISTRICT OF COLUMBIA AND PUERTO RICO.

Your product model number & description	Model # SDW4523MS Dishwasher. (Be sure to have this information available when you need service for your Product.)
Warranty period for this product:	One (1) year parts and labor, including in-home service. Five (5) years parts only, racks and electronics controls.
Additional item(s) excluded from warranty coverage:	Commercial, non-residential, or use inconsistent with published installation and product operational instructions. Service calls to your home to instruct how to use your dishwasher appliance, replace or repair house fuses or to correct house wiring, installation, or maintenance, damage to the product caused by delivery, accident, modifications, fire, floods or acts of God.
What to do to obtain service:	In-home service is provided for one (1) year from date of purchase. Service can be arranged by calling 1-800-BE-SHARP. Be sure to have Proof of Purchase, Model, and Serial Number available.

TO OBTAIN SUPPLY, ACCESSORY OR PRODUCT INFORMATION, CALL 1-800-BE-SHARP or visit www.sharpsusa.com.

SAVE THE PROOF OF PURCHASE AS IT IS NEEDED SHOULD YOUR DISHWASHER EVER REQUIRE WARRANTY SERVICE.

IMPORTANT SAFETY INSTRUCTIONS

⚠ WARNING Follow the information in this manual to minimize the risk of fire, explosion, electric shock and to help prevent property damage or personal injury.

PROPER INSTALLATION

Install the dishwasher properly, as instructed in the included installation guide.

- 1 Water supply inlet temperature should be between 120°F and 149°F.
- 2 Dispose of the discarded appliance and packing material properly.
- 3 The dishwasher must be properly grounded to reduce the risk of electrical shock.
- 4 If there is any damage to the new dishwasher, contact the dealer. Do not attempt to repair or replace any part yourself.

WARNING

The manual does not cover every possible condition and situation that may occur.

- 1 Read all instructions before using the dishwasher.
- 2 Use the dishwasher only for intended functions as described in this manual.
- 3 Use only detergents or rinse agents recommended for use in a dishwasher and keep them out of the reach of children.
- 4 When loading items to be washed:
 - Load sharp items and knives so that they are not likely to damage the door seal and tub.
 - Load sharp items and knives with the handles up to reduce the risk of injury.
- 5 Do not wash plastic items unless they are marked dishwasher safe. If not marked, check with manufacturer for recommendation. Items that are not dishwasher safe may melt and create a potential fire hazard.

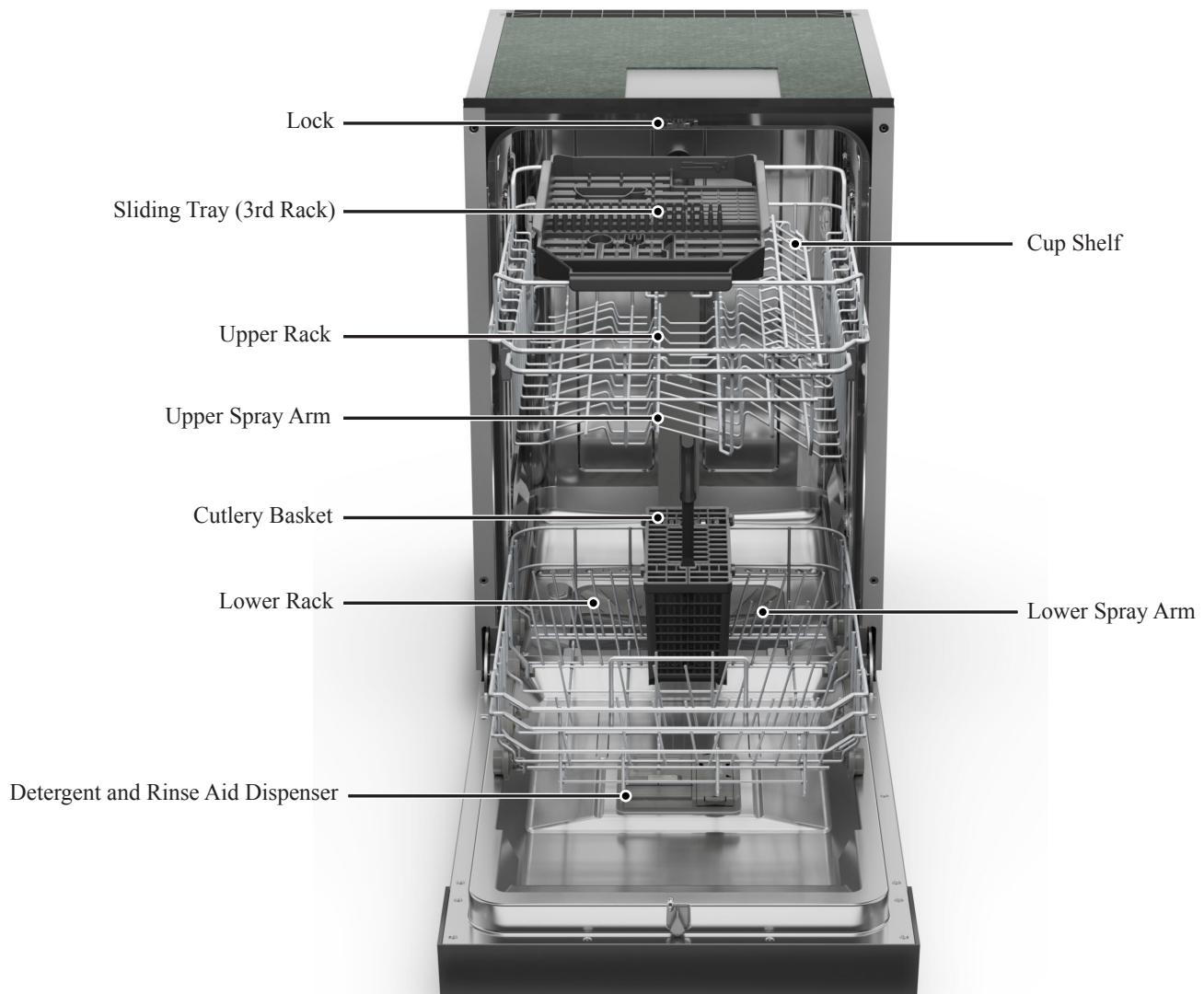
- 6 If the dishwasher drains into a food disposer, make sure disposer is completely empty before running dishwasher.
- 7 Do not tamper with controls.
- 8 Do not operate the dishwasher unless all enclosure panels are in the proper place.
- 9 Do not touch the heating element during or immediately after use, especially if the sanitize option has been selected.
- 10 To reduce the risk of injury, do not allow children to play in or on a dishwasher.
- 11 Do not let children abuse, sit or stand on door or racks of the dishwasher.
- 12 Keep young children and infants away from dishwasher when it is in operation.
- 13 Under certain conditions, hydrogen gas may be produced in a hot water system that has not been used for two weeks or longer. **HYDROGEN GAS IS EXPLOSIVE.** If the hot water system has not been used for such a period, **BEFORE USING DISHWASHER**, turn on all hot water faucets and let water run 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.
- 14 Do not store or use combustible materials, gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- 15 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 electric shock.
- 16 Remove the door to the washing compartment when removing an old dishwasher from service or discarding it.

STATE OF CALIFORNIA PROPOSITION 65 WARNINGS

⚠ WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov

SAVE THESE INSTRUCTIONS

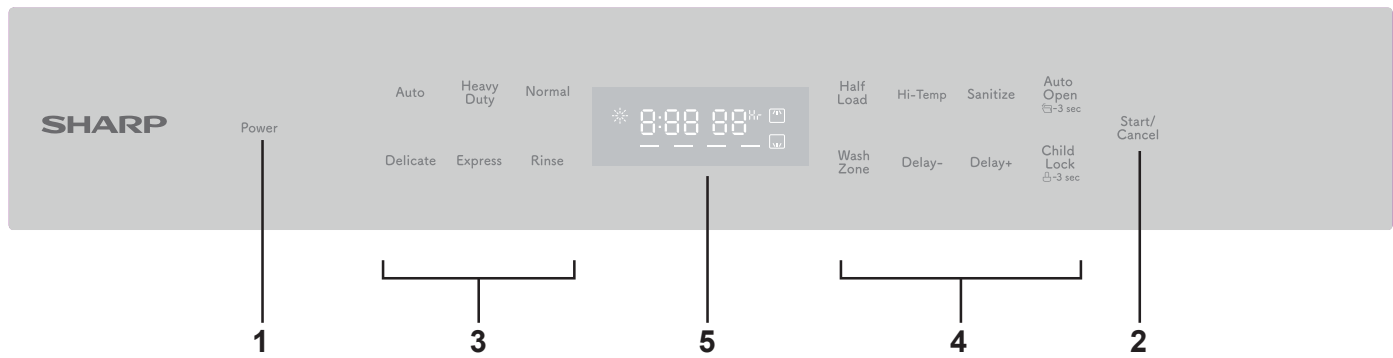
APPEARANCE OVERVIEW



SPECIFICATIONS

Capacity	8 place settings
Dimension	17.7 x 22.7 x 31.1 inches (W x D x H)
Power Supply	120 volts, 60 Hz
Rated Power Usage	Wash motor 100 W / Heater 1000 W
Water Feed Pressure	5.8 ~ 145 psi (0.04 ~ 1MPa)
Weight	93.7 lbs (Unpacked)
Current (Amps)	9.14 A
dB Specs	47

CONTROL PANEL



OPERATIONS AND DISPLAYS

1 Power

Press this button to turn on or turn off the dishwasher.

2 Start/Cancel

Once the door is firmly closed, press Start/Pause to start operation after selecting the cycle and options or delay time settings.

3 Wash Cycle Selections

- **Auto**
Auto sensing wash, lightly, normally or heavily soiled crockery, with or without dried-on food.
- **Heavy Duty**
Heavy Duty cycle is for pots, pans, casseroles, and dinnerware with dried-on or baked on soil.
- **Normal**
Normal cycle with Heated Dry will completely wash and dry a full load of normally soiled dishes.
- **Delicate**
Delicate cycle is for items that need special care such as stemware or porcelain.
- **Express**
Express Wash cycle is for lightly soiled or well-rinsed dish loads.
- **Rinse**
Use 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.

4 Options

Adaptive Option Indication

When a washing cycle is selected, default Option(s) are firmly lit. Also available Option(s) the selected washing cycle are dimly lit for your convenience.

- **Half Load**
When the load is about or less than half a typical load, use the Half Load function, which washes and dries with less water and energy.
- **Hi Temp**
When the “Hi Temp wash” function is selected, the temperature of the water will be maintained at 60°C (140°F) max.

- **Sanitize**

When the “Sanitize” function is selected, the temperature of water will be maintained at 69°C (156.2°F) max. The max temperature may not be reached if the incoming water temperature is not corrected. Certified residential dishwashers are not intended for licensed food establishments.

⚠ WARNING The sanitize option is available with “Auto” “Heavy” “Normal” and “Express” cycles.

- **Auto Open**

After washing, the door will open automatically to achieve better drying effect. (It can only be used with Auto, Heavy, Normal, Delicate, and Express).

Press and hold this button for 3 seconds to open or cancel this function. When the icon lights up, the function of Auto open is selected.

- **Wash Zone**

Press the button to select either upper basket or lower basket loaded, and the corresponding indicator will light up.

- **Delay +/Delay --**

To delay the start of a selected cycle, press the Delay Start pad until the desired delay time shows in the LED display. Each press of the button changes in a cycle of “00Hr~08Hr > 12Hr > 16Hr > 20Hr > 24Hr > 00Hr.”

Each button from 00Hr to 08Hr increases by 1 hour, and each button from 08Hr to 24Hr increases by 4 hours. To cancel the delay start option before the delay period is over, press the **Start/Pause** pad for 3-5 seconds.

- **Child Lock**

Press the button to lock all and prevent children from accidentally interacting with controls or settings.

5 Display Window

- **Time Indicator**

This displays the remaining hours and minutes of the running cycle, delayed hours, error codes, etc.

OPERATING THE DISHWASHER

	To show the remaining program time and error code etc.
	To show the delay time.
	Status Indicator To roughly show the progress of program operation.
	Rinse Aid Indicator If the icon is lit, the dishwasher is low on dishwasher rinse aid and requires a refill.
	Wash Zone-Upper Rack
	Wash Zone-Lower Rack

ERROR INDICATION

In certain situations which are critical to the machine's function and safe operation, the control shall shut down and indicate an error code (see Error Codes on page 19).

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

H: 01-H:24

If the Delay Start option is selected, the number of delay start hours shows in the status window.

2:25-0:00

After the machine starts operation, the remaining time of the selected cycle will be shown in the window.

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

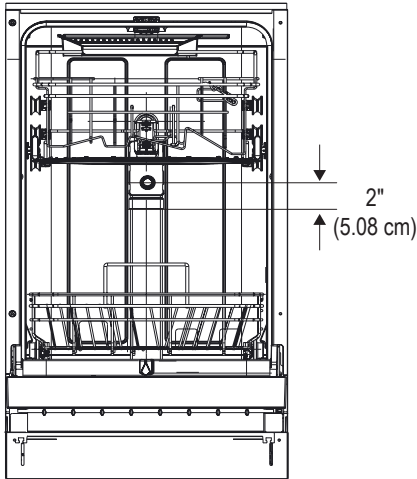
CONVENIENT FEATURES

ADJUSTING UPPER RACK

The adjusting upper rack feature allows you to load taller items in either the upper or lower rack.

The upper rack can be adjusted 2" (5.08 cm).

Adjusting the clearance of the upper rack increases or decreases the clearance of the lower rack, as shown.



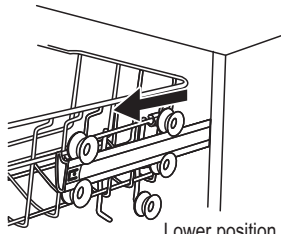
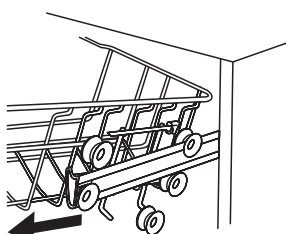
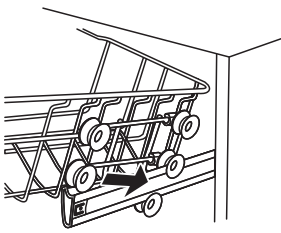
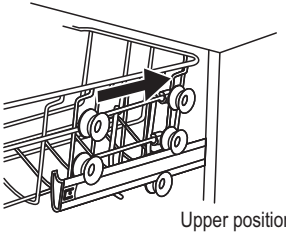
The upper dishwasher rack is designed for cups, glasses, small plates, bowls and plastic items marked dishwasher safe.

The upper rack can be easily adjusted 2" (5 cm) up or down to accommodate taller items in either in the upper or lower rack.

IMPORTANT:

- Remove all items before adjusting the rack. The rack must be empty.

To adjust the height of the upper rack, follow these steps:

1 Pull out the upper basket.	2 Pull up on upper basket to remove.
 Lower position	
3 Re-attach the upper basket to upper or lower rollers.	4 Push in the upper basket.
	 Upper position

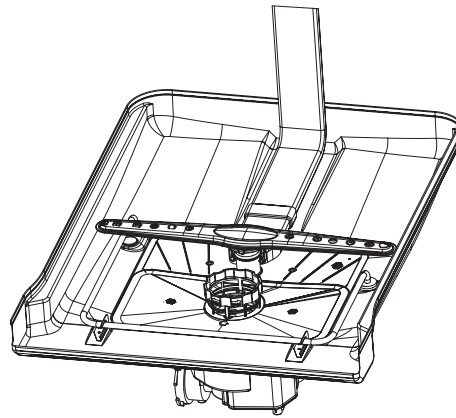
SMART WASH SYSTEM

Your dishwasher has Smart Wash System. This system can determine the type of cycle required to clean the dishes in the load with maximum efficiency. When a partial load of lightly soiled dishes is placed in the unit, a wash cycle similar to Express Wash will automatically be performed. When a full load of heavily soiled dishes is placed in the unit, Heavy Duty cycle will automatically be performed.

FILTER SYSTEM

Your dishwasher has a multiple filter system, which helps your dishwasher perform better using less water and less energy.

The filter system includes three filters that work in combination to separate dirty and clean water into different chambers.



AUTO DOOR OPENING

At the end of washing cycles, the door of the dishwasher will open automatically and leave a gap for air exchange, promoting washed items, even plastic dishes to achieve the best drying performance.

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 system 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.

BASIC OPERATIONS

- 1 Prepare and load dishes into the dishwasher.
- 2 Add detergent and, if needed, rinse aid.
- 3 Close the door firmly to latch.
- 4 Select the cycle. Press the corresponding button, and the cycle icon will be lit.
- 5 Select the options. Press the corresponding button, and the option icon will be lit.
- 6 To start, press the **Start/Cancel** button.

Your selections will only be activated when the door is firmly closed.

Check and clean the filters regularly for best performance.

NOTE

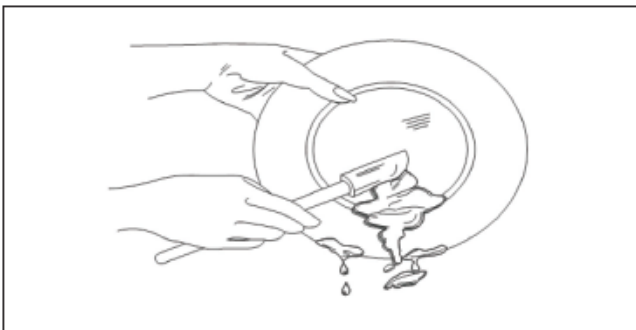
The dishwasher is programmed to remember your last cycle so you do not have to reset each time. To start the dishwasher using the same cycle and options selected on the previous wash, simply press the **Start/Cancel** button.

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 should be loosened before loading. Empty liquids from glasses and cups.

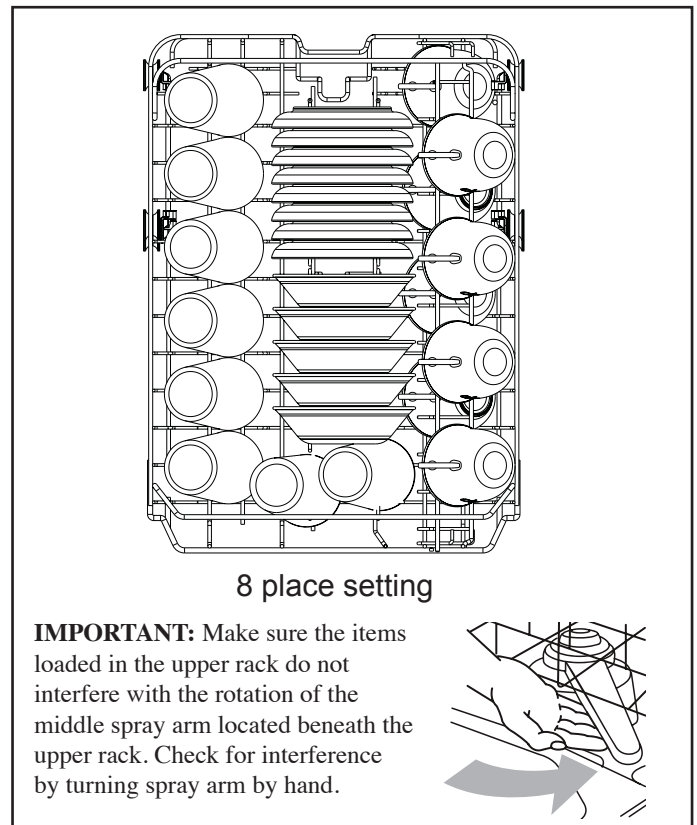
Foods such as mustard, mayonnaise, vinegar, lemon juice and tomato-based products may cause discoloration of stainless steel and plastics if allowed to sit for a long period of time. If not operating the dishwasher immediately, it is best to rinse off dishes soiled with these types of foods.

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



LOADING THE UPPER RACK

The features on your dishwasher rack may vary from the drawings shown.

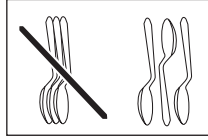


- Place items so the open ends face downward for cleaning and draining.
- Load glasses and cups in upper rack only. The lower rack is not designed for glasses and cups. Damage can occur.
- Place cups and glasses in the rows between tines. Placing them over the tines can lead to breakage, water spots and poor cleaning.
- Small bowls, pans and other utensils can be placed in the top rack. Load bowls in the center section for best stability.
- China, crystal and other delicate items must not touch each other during dishwasher operation. Damage may occur.
- Load plastic items so the force of the spray does not move them during the cycle.

10

GETTING STARTED

- Unload or remove the baskets before unloading the racks to void water drops from falling on the silverware.
- When handles are up, mix items in each section of the baskets with some pointing up and some down to avoid nesting. Spray cannot reach nested items.



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 the door firmly to latch.
- 4 Press the **Start/Cancel** button.

⚠ CAUTION TO AVOID BURN INJURY: Slightly open door and wait until spray arms and wash action stop. Hot steam may exit the dishwasher or hot water may splash out of it. Failure to USE CAUTION may result in injury.

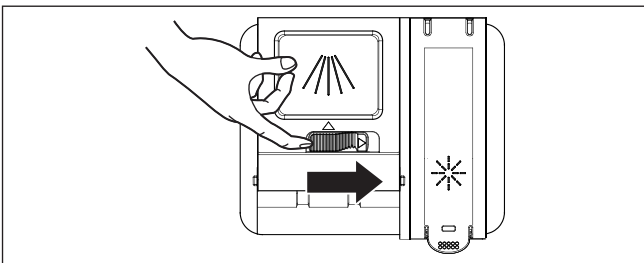
ADD DETERGENT

IMPORTANT:

- Use automatic dish washing detergent only. Other detergents can produce excessive suds that can overflow out of the dishwasher and reduce washing performance.
- Add detergent just before starting a cycle.
- Store detergent tightly closed in a cool, dry place. Fresh automatic dishwasher detergent results in better cleaning.

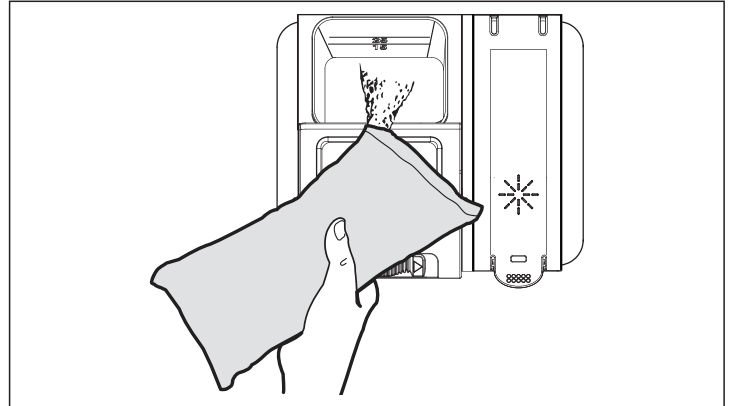
DETERGENT DISPENSER

- 1 Push the dispenser cover release catch to open the main wash detergent compartment.

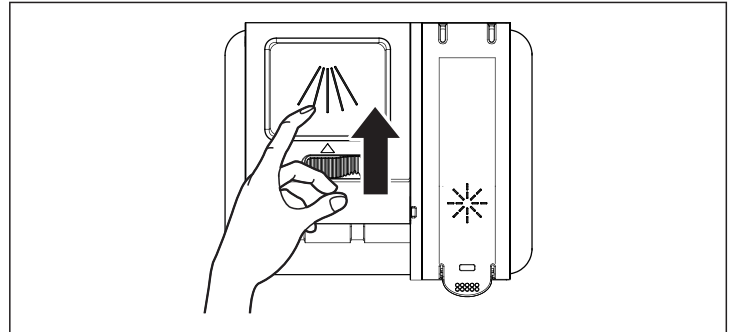


NOTE: The flap is always open at the end of a dishwashing cycle.

- 2 Add the recommended amount of detergent to the detergent compartment.



- 3 Press down on the top of the cover to secure.



HOW MUCH DETERGENT TO USE

The amount of detergent to use depends on the soil level of your load, the type of detergent used and the hardness of your water.

- If you use too little detergent, dishes won't be clean.
- If you have soft water and use too much detergent, glassware will etch.

WATER HARDNESS

Water hardness varies depending on your water source. For the best results, your dishwasher is designed to operate with water that has a hardness of no more than 7 grains per gallon. Test kits are available from all major appliance parts retail outlets. If your water has a hardness over 8 grains per gallon, you may consider installing a water softener or regularly use an additive to enhance the performance of your detergent.

GETTING STARTED

FILLING THE RINSE AID

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 dispenser, automatically releases a measured amount of rinse aid during the final rinse.

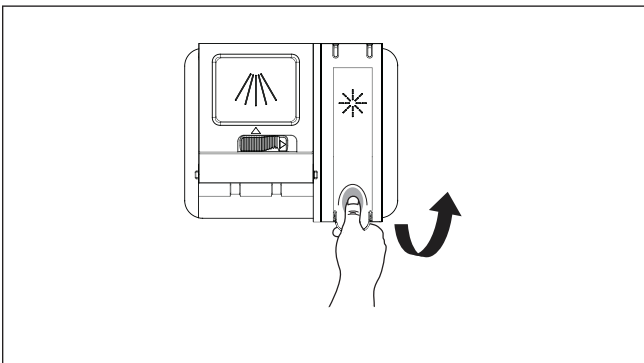
If spotting and poor drying are a problem, increase the amount of rinse aid dispensed by rotating the dial to a higher number. The dial is located under the dispenser cap.

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.

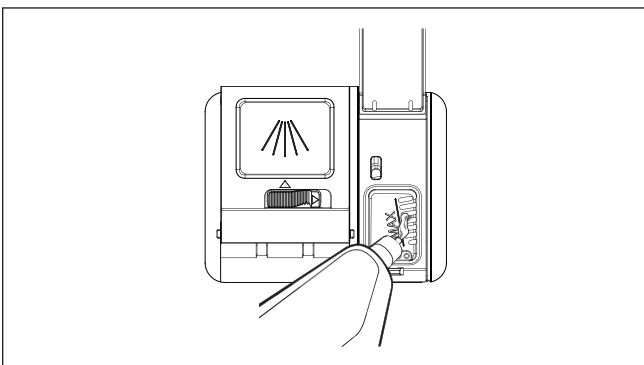
Do not use a solid or bar-type rinse aid. Under normal conditions, the rinse aid will last approximately one month. Try to keep the reservoir full, but do not overfill.

RINSE AID DISPENSER

- 1 Lift up the end tab of rinse aid cover to open.



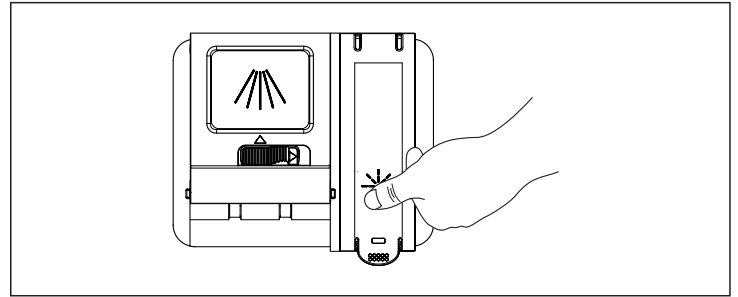
- 2 Fill the rinse aid dispenser with liquid rinse aid until full. Do not overfill.



NOTE: Use the viewing port when filling the rinse aid reservoir.

⚠ WARNING Do not fill the reservoir above the full level indicator. Excess rinse aid can overflow during the wash cycle.

- 3 Press the rinse aid cover down firmly to close.



TO ADJUST THE RINSE AID SETTING

You can adjust the amount of the rinse aid released during the rinse aid according to the following steps:

- 1 Close the door and power on the dishwasher.
- 2 Within 60 seconds after step 1, press the Rinse Only button more than 5 seconds to enter into the setting mode, the rinse aid indicator will blink quickly.
- 3 Press the Rinse Only button to select the proper setting according to your using habits. The setting will change in the following sequence: d3 > d4 > d5 > d1 > d2 > d3.
- 4 Without any operation in 5 seconds or press the Power button to complete the setting and exit the setting mode.

DISHWASHER CYCLE OPTIONS

CYCLE CHART

PROGRAM	DESCRIPTION OF CYCLE	WATER (IN L/Gal)	CYCLE TIME (MIN)
AUTO	Pre-Wash	9 - 17.7 L/ 2.4 - 4.7 Gal	123 - 154
	Main Wash 113-140°F (45-60°C)		
	Rinse		
	Last Rinse 149°F (65°C)		
	Drying		
HEAVY DUTY	Pre-Wash	17.7 L/4.7 Gal	157
	Pre-Wash		
	Main Wash 149°F (65°C)		
	Rinse		
	Rinse		
	Last Rinse 154°F (68°C)		
	Drying		
NORMAL	Pre-Wash	9~17.7L/ 2.4~4.7Gal	118~149
	Main Wash 113-140°F (45-60°C)		
	Rinse		
	Last Rinse 149°F (65°C)		
	Drying		
DELICATE	Pre-Wash	15.9L/4.2Gal	116
	Main Wash 122°F (50°C)		
	Rinse		
	Rinse		
	Last Rinse 143.6°F (62°C)		
	Drying		
EXPRESS	Pre-Wash 131°F (55°C)	12.8L/3.4Gal	60
	Main Wash 140°F (60°C)		
	Rinse 131°F (55°C)		
	Last Rinse 154°F (68°C)		
	Drying		
RINSE	Pre-Wash	6.6L/1.7Gal	20
	Pre-Wash		

DISHWASHER CYCLE OPTIONS

CYCLE TIME WITH OPTIONS

CYCLE TIME (MIN)	NULL	HALF-LOAD	HI-TEMP	SANITIZE	HI-TEMP + SANITIZE
AUTO	123-154	113-137	118-159	153-184	173-189
HEAVY DUTY	157	130	162	182	187
NORMAL	118-149	108-139	113-129	148-179	168-184
DELICATE	116	100	N.A.	N.A.	N.A.
EXPRESS WASH	60	55	N.A.	120	N.A.
RINSE ONLY	20	N.A.	N.A.	N.A.	N.A.

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-TEMP WASH is selected as an even higher temperature will be guaranteed to handle heavier soil loads.

NOTE: The energy usage label is based on Normal cycle with Heated Dry option selected and with the upper rack in the raised position.

CLEANING THE DISHWASHER

EXTERIOR DOOR AND PANEL

- 1 Regularly clean the stainless steel door and handle with a soft cleaning cloth to remove any debris. Do not use appliance wax, polish, bleach or products containing chlorine to clean the stainless steel door.
- 2 Gently clean the control panel with a lightly dampened cloth.

STAINLESS STEEL INNER DOOR AND TUB

The tub is made of stainless steel; it will not rust or corrode if the dishwasher is scratched or dented. Do not clean the dishwasher interior until it has cooled. Wear rubber gloves. Do not use any type of cleanser other than dishwasher detergent because it may cause forming or create suds.



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

FILTER SYSTEM

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.

⚠ WARNING

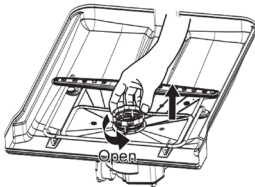
BURN HAZARD

Allow heating element to cool before cleaning the interior. Failure to do so can result in burns.

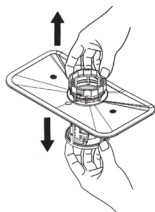
CLEANING THE FILTERS

Clean and check filters regularly for best performance.

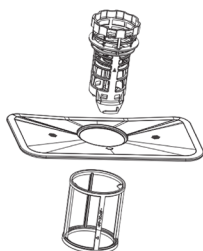
- 1 Turn off the dishwasher.



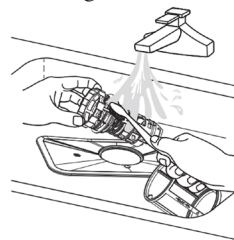
- 2 Rotate the filter insert counterclockwise to unfasten and then detach the filter insert.



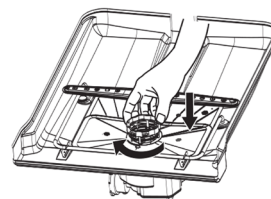
- 3 Remove the fine filter (flat, rectangular).



- 4 Remove any dirt or other remains from the filters, and then rinse them under running water.



- 5 Reassemble the filters in the reverse order of the disassembly, replace the filter insert, and rotate clockwise to the close arrow.



⚠ CAUTION If the filter insert is not closed properly, its performance will be decreased.

CLEANING THE NOZZLES

If your dishwasher does not seem to be cleaning adequately or the nozzles seem clogged, you can clean each of the nozzles. When removing the nozzles, take care as they may break.

Lower Nozzle

- 1 Check whether the nozzle holes are clogged by food particles.
- 2 If cleaning is needed, remove the nozzle by pulling it upwards.
- 3 Clean the nozzle, and then push it back into place.
- 4 Check whether the nozzle is engaged correctly by rotating it by hand.

DOOR GASKET

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

AIR GAP

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

Before cleaning the air gap, first turn off the dishwasher and lift off the cover. Remove the plastic cap and clean with a toothpick.

NOTE: Air gap is an external plumbing device that is not part of your dishwasher. The warranty provided with your dishwasher does not cover service costs directly associated with the cleaning or repair of the air gap.

CARE AND CLEANING

PROTECT AGAINST FREEZING

Your dishwasher should be properly protected from freezing when left in an unheated place. Have a qualified technician perform the steps listed below in this section.

TO DISCONNECT SERVICE

- 1** Turn off electrical power to the dishwasher at the supply source by moving fuses or tripping the 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 wash cycle.
- 4** Check connections to make sure they do not leak.

BEFORE CALLING FOR SERVICE

PROBLEM	POSSIBLE CAUSE	SOLUTION
Dishwasher won't start	Door may not be closed properly	Ensure the door is properly closed
	Power supply or power line is not connected	Ensure power supply is correctly connected
	Delay Start option has been selected	Refer to delay start section in this manual to reset
	Child lock activated (selected models)	Refer to child lock section in this manual to deactivate the child lock
Dishwasher beeps at the end of the cycle	Indicates the wash cycle is finished	This is normal.
Rinse aid light is on	The rinse aid level is low	Add rinse aid
Dishwasher operates too long	The dishwasher is connected to cold water	Make sure the dishwasher is connected to hot water supply
	The cycle time will vary depending on the soil level of the dishes	When heavy soil is detected, the Auto and Normal cycles will automatically increase the cycle time
	The sanitize option is selected	When Sanitize option is selected, the cycle time will be increased to meet the sanitize temperature requirement
Dishes are not clean enough	Water pressure is temporarily low	Use 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 to use the dishwasher when hot water is being used elsewhere in the house
	Dishes are loaded too close together	Load the dishes again as the manual indicates
	Improper use of detergent	Using fresh detergent, add the correct amount depending on the water hardness and the selected cycle
	The selected cycle is not suitable for food soil condition	Choose another cycle for longer washing time
	Spray arms are blocked by items	Make sure the spray arm is rotated fully
Dishes are not dry enough	Rinse aid dispenser is empty	Fill rinse aid dispenser or increase the amount of rinse aid
	Improper loading of dishes	Load the dishes again as the manual indicates
	The selected cycle did not include 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 aid dispenser empty	Add rinse aid to the dispenser
	Water temperature is too low	For best results, water should be a minimum 120°F as it enters the dishwasher.
Etching	Use of too much detergent	Use less detergent if you have soft water etching
	The inlet water temperature exceeds 150°F	Lower the inlet water temperature
Detergent left in dispenser cup	Detergent may be too old	Use fresh detergent
	Spray arm is blocked	Load the dishes, making sure the spray arms are not blocked

TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	SOLUTION
Detergent dispenser will not close	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 or has been interrupted	Select the proper cycle as indicated by the manual
Dishwasher does not drain properly	Drain is clogged	Check the air gap if it is installed Make sure the disposer is empty if the dishwasher is connected to the disposer
	Drain hose is kinked	Be sure the drain hose is properly connected to the sink
Suds in the tub	Improper detergent is used	Be sure to use only the automatic dishwasher detergent
	Excessive suds caused by using the improper detergent	Make sure to use only the automatic dishwasher detergent
Dishwasher leaks	Dishwasher is not level	Level the dishwasher (see the installation manual)
Black or gray marks on dishes	Aluminum utensils have rubbed against dishes	Choose a higher cycle Make sure the inlet water temperature is no less than 120°F
Stained tub interior	Coffee and tea soil	Use a spot cleaner to remove the soil
	Reddish stain	Some tomato-based foods will cause this. Use of the rinse only cycle right after loading this will decrease the staining
Noise	Detergent cup opening or drain pump sound	This is normal
	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 shut off	Make sure water valve is open
	Door latch may not be properly seated	Make sure the door is closed
	Water pressure is too low	Verify a minimum of 5.8 psi water pressure is maintained during the filling operation.

ERROR CODES

If there is a malfunction the dishwasher will display an error code. The following table shows possible error codes and their causes.

CHECK CODE DISPLAY	POSSIBLE CAUSE
E1	• The water supply pressure is low. • The water supply valve is closed. • The non-water switch is broken. • The wash pump does not work. • The main PBA has some problems.
E3	• The heater is broken. • The thermistor doesn't work normally. • The main PBA has some problems.
E4	• The case brake fails to detect the pulse. • The valve water is out of order. • The overflow sensor is broken. • There is a water leakage.
E6	• The Thermistor is broken. • The main PBA fails to detect the pulse.
E7	• The Thermistor is broken. • The main PBA fails to detect the pulse.
E8	• The main PBA or sub PBA is out of order. • Breakage of distributary valve. • The connecting wire harness is defective or damaged.
Ed	• The main PBA or sub PBA is out of order. • The communications connection for the main PBA or sub PBA is not properly connected.

