*Frigidaire*Dishwasher

Use & Care Manual

1200 Series with PrecisionSelect™ Electronic Control



Record All Information For Future Reference

Brand:	Purchase Date:		
Model #:			
Serial #:			
	(see Features page for location)		

Questions? 1-800-944-9044 (United States)

1-800-265-8352

(Canada)

Visit our Web Site at www.frigidaire.com

Product Registration Card

Please fill in completely, sign and return promptly!



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Versión en español

Si desea obtener una copia en español de este Manual del Usuario, sírvase escribir a la dirección que se incluye a continuación. Solicite la P/N 154493901, **Spanish Use & Care Manual, Electrolux Major Appliances North America, P.O. Box 212378, Augusta, GA 30917.**



Important Safety Instructions

AWARNING

This symbol will help alert you to such dangers as personal injury, burns, fire, and electrical shock.

AWARNING

To reduce the risk of fire, electrical shock, or injury when using your dishwasher, follow basic precautions including the following:

- Read all instructions before using your dishwasher.
- Use your dishwasher only as instructed in this Use and Care Manual.
- This Manual does not cover every possible condition and situation that may occur. Use common sense and caution when installing, operating and maintaining any appliance.
- NSF certified residential dishwashers are not intended for licensed food establishments.
- DISHWASHER MUST BE ELECTRICALLY GROUNDED. Read the Installation Instructions for details.
- This dishwasher is designed to operate on regular house current (120 V, 60 Hz). Use a circuit equipped with a 15 ampere fuse or circuit breaker. Use a 20 ampere fuse if dishwasher is connected with a food waste disposer.
- Do not operate dishwasher unless all enclosure panels are in their proper place.
- To avoid entrapment and/or suffocation, remove door or door latch mechanism from any dishwasher that is discarded or not in use.
- Keep young children and infants away from dishwasher when it is operating.
- Do not let children abuse, sit, stand or play on door or racks of a dishwasher.
- Use only detergents and rinse agents recommended for use in a dishwasher.
- Store dishwasher detergent and rinse agents out of the reach of children.
- Do not wash plastic items unless marked "dishwasher safe" or the equivalent. Check with manufacturer for recommendations, if not

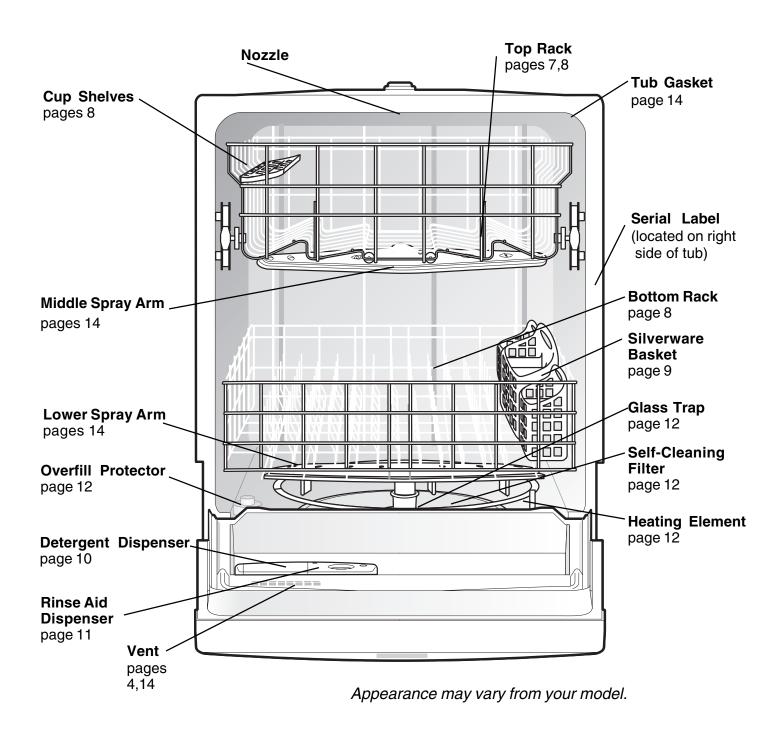
- marked. Items that are not dishwasher safe may melt and create a potential fire hazard.
- If the dishwasher drains into a food disposer, make sure disposer is completely empty before running dishwasher.
- Disconnect electrical power to dishwasher before servicing.
- Repairs should be done by a qualified technician.
- Do not tamper with controls.
- Do not touch the heating element during or immediately after use.
- Use care unloading the dishware when the SANITIZE option has been selected. Contents may be hot to the touch immediately after the end of cycle.
- Water vapor from the vent may be hot to the touch when the SANITIZE option has been selected. Use care and do not let small children play around or touch the vent area of the dishwasher.
- When loading items to be washed:
 - Locate sharp items and knives so that they are not likely to damage the door seal or tub.
 - Load sharp items and knives with the handles up to reduce the risk of cut-type injuries.
- Under certain conditions, hydrogen gas may be produced in a hot water system that has not been used for 2 weeks or more. HYDROGEN GAS IS EXPLOSIVE. If hot water system has not been used for such a 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.

SAVE THESE INSTRUCTIONS



Dishwasher Features

Your dishwasher cleans by spraying a mixture of hot water and detergent through the spray arms against soiled surfaces. First, the dishwasher fills with water covering the filter area. Water is then pumped through the filter and spray arms. 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.





Very Important Information—Read Before Operating Your Discher!

Frigidaire



Normal Sound

This dishwasher does not most dishwashers—IT'S QUIETER.

Your Precision Direct Wash Systern® dishwasher uses energy efficient me wash and drain portions of the cycle Each cycle has a series of we let for washing and rinsing disher begins, you may—or may rot motor.

The next sound you water as it enters water as it enters water a pause and circ water a pause and middle arm sprayer you meet action of the sound sound in the sound s

Cycle En: ove

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Sanitize Hi Temp Heat De ay Start/ Cancel



Operating Instructions (continued)

Cycle Chart				
Cycle	To Select Cycle	Water (approx.)	Time* (minutes)	Washes/ Rinses
Pots & Pans For pots, pans, casseroles and dinnerware with dried-on or baked-on soils.	Select POTS & PANS and desired OPTIONS. HI-TEMP WASH and SANITIZE will automatically be provided.	8.5 gal. 7.1 imp. gal. 32.2 liters	104	2 washes 5 rinses
Normal Wash For regularly soiled dishes and silverware.	Select NORMAL WASH and desired OPTIONS.	6.1 gal. 5.1 imp. gal. 23.1 liters	89	2 washes 3 rinses
Glasses For lightly soiled china and crystal.	Select GLASSES and desired OPTIONS.	6.1 gal. 5.1 imp. gal. 23.1 liters	84	2 wash 3 rinses
Econo Wash For lightly soiled and pre-rinsed dishes and silverware.	Select ECONO WASH and desired OPTIONS.	4.9 gal. 4.1 imp. gal. 18.6 liters	74	1 wash 3 rinses
Upper Rack For lightly soiled or pre-rinsed dishes and silverware when you do not have a full load.	Select UPPER RACK and desired OPTIONS.	3.7 gal. 3.1 imp. gal. 14.0 liters	65	1 wash 2 rinses
Rinse Only For rinsing dishes that will be washed later.	Select RINSE ONLY. DO NOT USE detergent.	2.4 gal. 2.0 imp. gal. 9.1 liters	18	2 rinses

^{*} Includes dry time.

Operating Instructions (continued)

Options SelectionsHi-Temp Wash

When HI-TEMP WASH option is selected, the dishwasher heats water in the main wash to approximately 140°F (60°C).

This increase in water temperature helps dishwasher detergent remove food grease and soil from dishes more effectively and aids in drying. HITEMP WASH option can be used with all cycles except GLASSES, UPPER RACK, and RINSE ONLY. HITEMP WASH is automatically provided when POTS & PANS cycle is selected.

When HI-TEMP WASH option is selected, the light above the pad will come on and remain on until end of cycle. To turn off the HI-TEMP WASH option, press the pad a second time. The light above the pad will turn off.

Sanitize Option

To sanitize your dishes and glassware, select the SANITIZE option. When selected, the light above the pad will come on and remain on until end of cycle. The water temperature in the final rinse will be raised to 155°F (68°C) and will maintain that temperature for 9 minutes. This option is available in POTS & PANS, NORMAL and ECONO WASH cycles. Only these sanitization cycles have been designed to meet NSF requirements.

The cycle time will be extended until the proper water temperature is reached. Washing action will continue during the water heating delay. For best results, the incoming water temperature should be at least 120°F (49°C).

The sanitize criteria may not be satisfied if there is an interruption of the cycle, power failure or if the incoming water temperature is below 120°F (49°C).

To turn off the SANITIZE option, press the pad a second time. The light above the pad will turn off.

Heat Dry

The HEAT DRY option in combination with rinse aid will enhance drying performance. The energy required to use the HEAT DRY option costs pennies per cycle. You may choose not to select the HEAT DRY option; however you will have items in your dish load that will not be completely dry at the end of the cycle.

You may see water vapor coming from the vent during the drying portion of cycle. The vent is closed during washing to hold moisture and sound inside. The vent opens during the last few minutes of the final rinse and remains open for drying. The drying option may be changed at any time during the cycle and affects only the drying period.

Opening the door longer than one minute during the dry cycle cancels the selected dry program.

Delay Start

The DELAY START option allows you to automatically delay starting your dishwasher from 1-3 or 2-4-6 hours depending on your model.

On models with 2-4-6 hour delay, press the pad once for a 2 hour delay, twice for 4 hours and three times for 6 hours. A light will come on indicating the delay start hours and will remain on until cycle starts.

To cancel the DELAY START option and begin the cycle before the delay period is over, press the START/CANCEL pad.

To Cancel a Cycle

You can cancel a cycle anytime during the cycle. Press START/CANCEL pad and the dishwasher will start a 90 second drain. At the end of the drain, select the desired cycle.

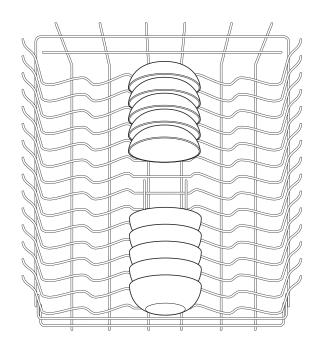
Status Indicator Lights

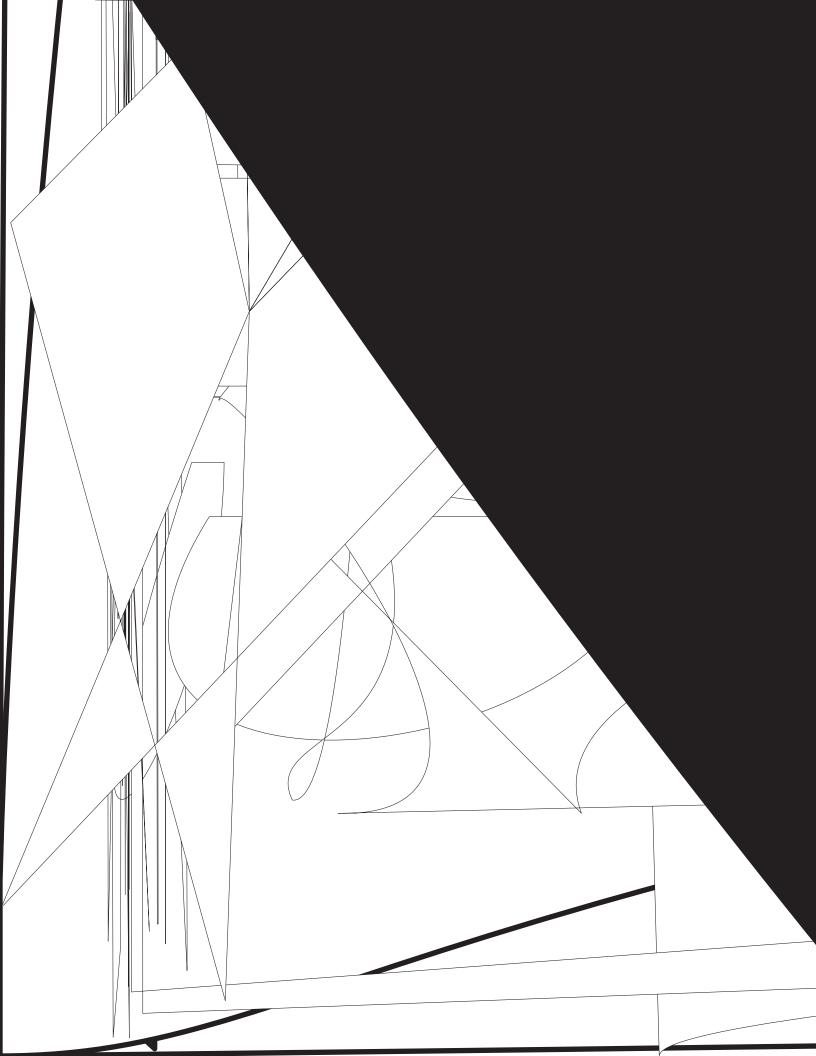
The WASHING light (some models) comes on at the beginning of cycle and remains on until the end of the main wash.

The DRYING light (some models) indicates the drying portion of the cycle. The light will come on when either drying option is selected.

When the SANITIZE option is selected, the SANITIZED light will glow when the SANITIZE cycle is finished. If the dishwasher did not properly sanitize the dishes, the light will not come on. This can happen if the cycle is interrupted. The light will remain on until the door is opened.

The CLEAN light (some models) will come on at end of cycle and remain on until door is opened.





Dishwasher Dispenser & Detergents

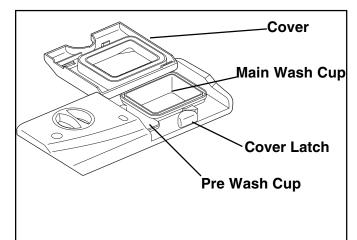
Filling the Detergent Dispenser

The detergent dispenser has one main wash and one prewash cup. Detergent in the uncovered cup falls into the dishwasher when the door is closed. The covered cup opens automatically to release detergent.

- Use only fresh automatic dishwashing detergent. Other detergents will cause oversudsing.
- When using automatic dishwashing detergent tabs, place one tab in main wash cup and close.
- Add detergent just before starting cycle.
- Store detergent in a cool, dry location. Moist or caked detergent will not dissolve properly.

How much Detergent to use

The amount of detergent to use depends on the water hardness. Water hardness is measured in grains per gallon. Using too little detergent can result in poor cleaning and hard water filming or spotting. Using too much detergent in soft water can cause a permanent film called etching. Your local water company, water softener company or county extension agent can tell you the water hardness in your area.



Note: If the cover is closed on the Main Wash Cup, open by pressing the cover latch.

Detergent Usage Guide					
Cycle	Soft Water (0-3 grains)	Medium Hard Water (4-8 grains)	Hard Water (9-12 grains)	Very Hard Water* (over 12 grains)	
Pots & Pans or Normal Wash	2 teaspoons (each cup- 1/4 full)	5 teaspoons (each cup–fill to line above "Regular")	8 teaspoons (each cup- completely full)	Each Cup- Completely Full (water softener recommended)	
Econo Wash or Glasses	2 teaspoons (Main Wash cup- 1/4 full)	5 teaspoons (Main Wash cup–fill to line above "Regular")	8 teaspoons (Main Wash cup- completely full)	Main Wash Cup- Completely Full (water softener recommended)	
Rinse Only	No Detergent	No Detergent	No Detergent	No Detergent (water softener recommended)	

*Note: For very hard water, detergent alone may not be enough. A water softener is recommended to improve water quality and dishwashing performance. Try adding more detergent at the beginning of the main wash portion of the cycle. As a rule, use 1 teaspoon for each grain above 12. Unlatch the door, open slowly and add detergent to the bottom of the tub. Close the door to latch and the dishwasher will continue through the cycle.



Dishwasher Dispenser & Detergents (continued)

Rinse Aid

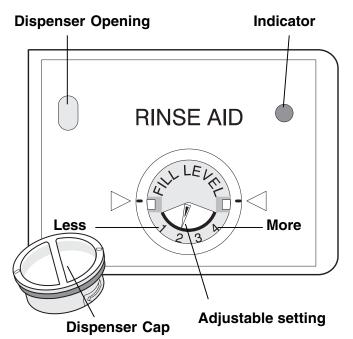
Rinse aid greatly improves drying and reduces water spots and filming. Water "sheets" off dishes rather than forming water droplets that cling and leave spots.

A dispenser, located next to the detergent cup, automatically releases a measured amount of rinse aid during the last rinse. If spotting and poor drying are problems, increase the amount of rinse aid dispensed by rotating the dial to a higher number. The dial is located under the dispenser cap. The indicator will be dark when full and will show clear when it is time to refill.

To add liquid rinse aid, turn dispenser cap 1/4 turn counterclockwise and lift out. Pour in rinse aid until liquid touches the indicated fill level. Replace cap.

Do not overfill since this can cause oversudsing. Wipe up any spills with a damp cloth.

The dispenser holds enough for 35 to 140 washes, depending on setting.



The HEAT DRY option in combination with rinse aid will enhance drying performance. The energy required to use the HEAT DRY option costs pennies per cycle. You may choose not to select the HEAT DRY option; however you will have items in your dish load that will not be completely dry at the end of the cycle.



Factors Affecting Performance

Water Pressure

The hot water line to dishwasher must provide water pressure between 20 and 120 psi.

Low water pressure may occur when laundry or showers are in operation. Wait until water use is reduced before starting dishwasher.

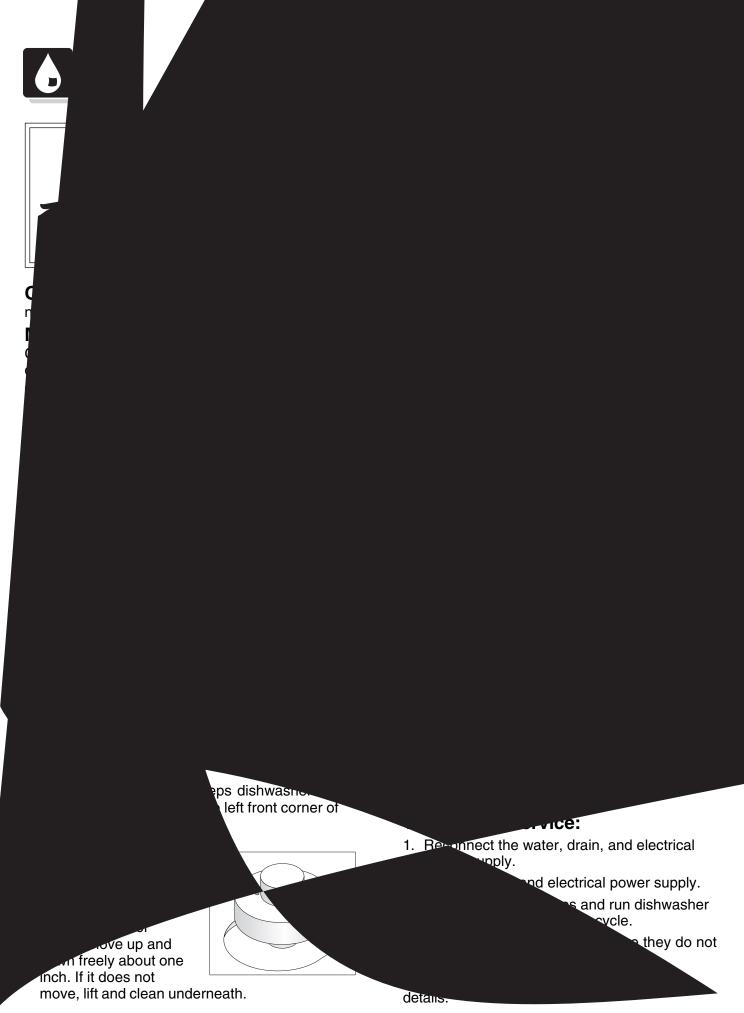
Water Temperature

Hot water is needed for best dishwashing and drying results. Water entering dishwasher should be at least 120°F (49°C) to give satisfactory results.

To check water temperature entering dishwasher:

- Turn on hot water faucet nearest dishwasher for several minutes to clear cool water from pipes.
- Hold a candy or meat thermometer in stream of water to check the temperature.
- If temperature is below 120°F (49°C), have a qualified person raise the hot water heater thermostat setting.

Important: Before starting a cycle, run hot water to clear cool water from pipe.





Solutions to Common Dishwashing Problems

Before calling for service, review this list. It may save you both time and expense. This list includes common experiences that are not the result of defective workmanship or material in your dishwasher.

Food Soils Left on Dishes

- Choose another cycle for longer washing time.
- Check rack loading section for proper loading—avoid nesting items.
- Home water pressure may be too low should be 20 to 120 pounds per square inch (psi).
- Check incoming water temperature. It should be at least 120°F (49°C). (See Factors Affecting Performance.)
- Check water hardness. For extremely hard water, it may be necessary to install a water softener. (See Detergent Chart.)
- Use fresh detergent.
- Check to make sure funnel in top rack is not blocked.
- Make sure items are not blocking the spray arms, preventing them from rotating.

Dishes not Dry

- Select heat dry option.
- Make sure the rinse aid dispenser is filled.
- Increase the amount of rinse aid. (See Rinse Aid.)
- Check the incoming water temperature. Be sure it is at least 120°F (49°C).
- Check for proper loading—avoid nesting items.
- Plastic items may need to be towel dried.
- Cups with a concave bottom will collect water.

Glassware/Flatware Spotted or Cloudy

- Check water hardness. For extremely hard water, it may be necessary to install a water softener. (See Detergent Chart.)
- Water temperature may be low. Avoid extremely low or high temperatures. (See Factors Affecting Performance.)
- Avoid overloading and improper loading. (See Preparing and Loading Dishes.)
- Use fresh detergent. Old detergent is ineffective.
- Make sure rinse aid dispenser is filled.
- Check to see that proper amount of detergent is being used for cycle selected.
 Also, check phosphate level. (See Detergent Dispenser.)
- Home water pressure may be too low—it should be 20 to 120 pounds per square inch (psi).

Dishware Chipped

- Load with care and do not overload. (See Preparing and Loading Dishes.)
- Place delicate items in top rack.
- Place glasses securely against pins and not over pins.
- Load items so they are secure and don't jar loose when moving racks in and out. Move racks in and out slowly.
- Make sure tall glasses and stemware will clear top of tub when rack is pushed in.
- Fine antique china and crystal should be hand-washed.



Solutions to Common Dishwashing Problems

(continued)

Dishware Stained or Discolored

- Tea and coffee can stain cups. Remove the stains by hand washing in a solution of 1/2 cup (120 ml) bleach and one quart (1 L) of warm water. Rinse thoroughly.
- Iron deposits in water can cause a yellow or brown film. A special filter installed in the water supply line will correct this problem. (See Removing Spots and Film.)
- Aluminum utensils can leave gray/black marks when they rub against other items. Load properly.
- Certain high acid foods can cause discoloration of stainless steel and plastics if allowed to sit for a long period. Use the Rinse & Hold cycle or rinse by hand if not operating dishwasher at once.
- Mixing stainless steel and silver utensils in silverware basket can cause pitting of the stainless steel blades. Avoid mixing stainless steel and silver.

Etching

- Using too much detergent in soft or softened water causes this film that cannot be removed.
- Adjust the amount of detergent based on the water hardness. (Check Detergent Chart.)
- Lower the water temperature.
- Use no heat dry option.

Detergent Left in Cups

- Detergent may be old. Discard and use fresh detergent.
- Be sure water action can reach the dispenser.
- Check to see if cycle has been completed.
- Make sure items do not prevent the detergent dispenser from opening.

Dishwasher Leaks

- Use only fresh detergent designed for automatic dishwashers. Measure detergent carefully. Try a different brand.
- Spilled rinse aid can cause foam and lead to overflowing. Wipe up any spills with a damp cloth.
- Check to see that dishwasher is level. (See Installation Instructions.)

Normal Sounds You Will Hear

- Normal sounds include water fill, water circulation and motor sounds.
- There is a noticeable change in sound when the wash action switches between the lower and middle spray arm. This is normal since each spray arm has its own sound.
- It is normal for dishwasher to pause (no sound) when the wash action is switching between the lower and middle spray arms.

Water in Bottom of Tub

 Water left in bottom of tub after cycle is complete is not normal. If water remains in the bottom of the tub, dishwasher may not be draining properly. (See Dishwasher Does Not Drain Properly.)

Vapor at Vent

 Water vapor escapes from the vent during the drying part of cycle. This is normal.

Dishwasher Won't Run

- Check to see if circuit breaker is tripped or if a fuse is blown.
- Make sure water supply is turned on.
- Check to see if cycle is set correctly. (See Operating Instructions.)
- Is dishwasher set for delay start option?
- Make sure door is closed and latched.



Solutions to Common Dishwashing Problems (continued)

Dishwasher Does Not Drain Properly

- If unit is hooked up to a food waste disposer, make sure the disposer is empty.
- Check to see if the knockout plug has been removed from inside the food waste disposer inlet.
- Check to see if drain hose is kinked.
- Make sure cycle is complete, not in a pause.

Cycle Takes a Long Time

- Is cycle in a water heating delay?
- Has the delay start option been selected?
- · Has the sanitize option been selected?

Dishwasher Won't Fill

- Is water supply turned on?
- Does overfill protector move up and down freely? (See Overfill Protector section.)

Dishwasher Has an Odor

- Soiled dishes left in dishwasher too long can create an odor. Use Rinse Only cycle.
- There will be a "new" smell when first installed. This is normal.
- Check to see if unit is draining properly.
 (See Dishwasher Does Not Drain Properly.)

Stains on Tub Interior

 Washing large amounts of dishware with tomato based soil can cause a pink/orange appearance. This will not affect performance and will gradually fade over time. Prerinsing or using the Rinse Only cycle will reduce the chance of staining. Using no heat dry option will lessen staining.

Removing Spots and Film

Hard water can cause lime deposit buildup on the interior of the dishwasher. Dishes and glasses may also get spots and film for a number of reasons. (See Glassware/Flatware Spotted or Cloudy section.) To remove buildup, spots and film, clean using the following instructions:

- Load clean dishes and glasses in normal manner. Do not load any metal utensils or silverware.
- 2. Do not add detergent.
- Select the NORMAL WASH cycle. Close and latch door. Press START/CANCEL pad.
- Allow dishwasher to run until it starts the second water fill (approximately 10 minutes).
- 5. Unlatch and open door and pour 2 cups of white vinegar into the bottom of dishwasher.
- 6. Close and latch door and allow cycle to finish.

Note: If these conditions persist, a home water softener should be considered.





DISHWASHER WARRANTY Your dishwasher is protected by this warranty

	WARRANTY PERIOD	THROUGH OUR AUTHORIZED SERVICERS, WE WILL:	THE CONSUMER WILL BE RESPONSIBLE FOR:
FULL ONE-YEAR WARRANTY	One year from original purchase date.	Pay all costs for repairing or replacing any parts of this appliance which prove to be defective in materials or workmanship.	Costs of service calls that are listed under NORMAL RESPONSIBILITIES OF THE CONSUMER.*
EXTENDED LIMITED 2ND YEAR WARRANTY	Two years from original purchase date.	Replace any parts in the Water Distribution System which fail because of a manufacturing defect. This includes the motor, pump, lowerwash arm and soft or hard food disposer on all models, plus the wash tower, upper spray arms with associated supply tube, and filter assembly on models including these features. Associated inlet and drain plumbing parts are not covered by this warranty.	Associated inlet and drain plumbing parts. Costs for pickup and delivery of the product required because of service; and all costs for labor and transportation.
EXTENDED LIMITED 2ND - 5TH YEAR WARRANTY	Second through fifth years from original purchase date.	(Electronic Controls, Nylon Racks and TufRacks) For models with electronic controls, replace any electronic control that fails due to a manufacturing defect. For models with nylon-coated racks or TufRacks, replace any original upper or lower nylon-coated rack or TufRack that peels or rusts due to a manufacturing defect.	Costs for pickup and delivery of the product required because of service; and all costs for labor and transportation.
EXTENDED LIMITED 2ND - 10TH YEAR	Second through tenth years from original purchase date.	Provide a replacement tub or door liner if the original tub or door liner fails to contain water because of a manufacturing defect.	Door seals; any costs for pickup and delivery of the product required because of service; and all costs for labor and transportation.
LIMITED WARRANTY (Applicable to the State of Alaska)	Time periods listed above.	All of the provisions of the full warranties above and the exclusions listed below apply.	Costs of the technician's travel to the home and any costs for pick up and delivery of the appliance required because of service.

In the U.S.A. and Canada, your appliance is warranted by Electrolux Major Appliances North America. We authorize no person to change or add to any of our obligations under this warranty. Our obligations for service and parts under this warranty must be performed by us or an authorized Electrolux Major Appliances North America servicer.

*NORMAL RESPONSIBILITIES OFTHE CONSUMER

This warranty applies only to products in ordinary household use, and the consumer is responsible for the items listed below:

- 1. Proper use of the appliance in accordance with instructions provided with the product.
- 2. Proper installation by an authorized servicer in accordance with instructions provided with the appliance and in accordance with all local plumbing, electrical and/or gas codes.
- 3. Proper connection to a grounded power supply of sufficient voltage, replacement of blown fuses, repair of loose connections or defects in house wiring.
- 4. Expenses for making the appliance accessible for servicing, such as removal of trim, cupboards, shelves, etc., which are not a part of the appliance when it was shipped from the factory.
- 5. Damages to finish after installation.

exclusion may not apply to you.

6. Replacement of light bulbs and/or fluorescent tubes (on models with these features).

EXCLUSIONS

This warranty does not cover the following:

- 1. CONSEQUENTIAL OR INCIDENTAL DAMAGES SUCH AS PROPERTY DAMAGE AND INCIDENTAL EXPENSES RESULTING FROM ANY BREACH OF THIS WRITTEN OR ANY IMPLIED WARRANTY.

 Note: Some states do not allow the exclusion or limitation of incidental or consequential damages, so this limitation or
- Service calls which do not involve malfunction or defects in workmanship or material, or for appliances not in ordinary household use. The consumer shall pay for such service calls.
- 3. Damages caused by services performed by persons other than Electrolux Major Appliances North America or their authorized servicers; use of parts other than genuine Electrolux parts; obtained from persons other than such servicers; or external causes such as abuse, misuse, inadequate power supply or acts of God.
- 4. Products with original serial numbers that have been removed or altered and cannot be readily determined.

IFYOUNEED SERVICE

Keep your bill of sale, delivery slip, or some other appropriate payment record. The date on the bill establishes the warranty period should service be required. If service is performed, it is in your best interest to obtain and keep all receipts. This written warranty gives you specific legal rights. You may also have other rights that vary from state to state. Service under this warranty must be obtained by contacting Electrolux Major Appliances North America.

This warranty only applies in the 50 states of the U.S.A. and Puerto Rico, and Canada. Product features or specifications as described or illustrated are subject to change without notice. All warranties are made by Electrolux Major Appliances North America.

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