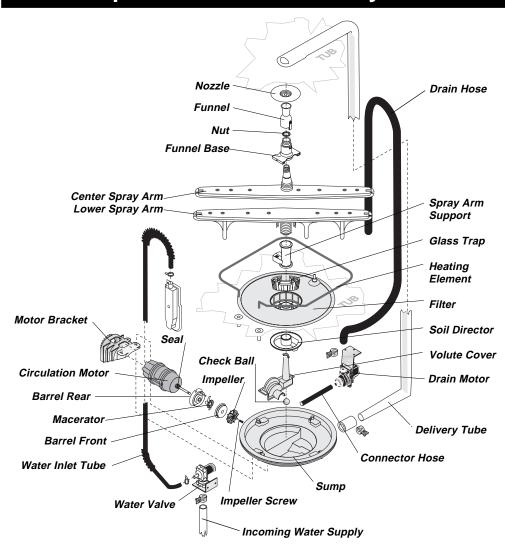
Exploded View of Wash System



Pump Assembly

The pump assembly is driven by a 1/12 HP, shaded pole motor. Rotation is in the counterclockwise direction at 3100 to 3200 RPM. The motor drives a pump which supplies 100 percent filtered water at a rate of approximately 12 GPM to one spray arm at a time. The spray arm's operation is alternated by small "pauses" of the motor during the wash cycle.

Draining is accomplished by using a small separate synchronous drain pump mounted to the side of the sump. The drain pump is connected to the main pump by a small rubber hose. The drain check valve is located at the entrance to the drain pump. The drain hose is attached by a worm gear clamp to the discharge of the drain pump. The drain is then routed up the side of the dishwasher and attached to the side of the tub. This drain loop insures that an air pocket cannot form near the drain pump and cause the pump to

air lock. The drain loop on the side of the tub must be kept in place after servicing.

The main pump can easily be removed by disconnecting the upper spray arm supply tube, the drain pump connector hose, and the wiring harness connections made at the circulation motor and the water heat thermistor located on the bottom of the pump.

Once the pump assembly is removed from the dishwasher, the motor/impeller assembly can be removed from the sump by taking out the three (3) T-20 Torx head screws from the aluminum motor bracket and then the three (3) T-20 Torx head screws from the volute cover. Using a large flat head screwdriver inserted between the impeller screw and the sump's volute, the motor/ impeller assembly can be gently pried out of the sump. Use the screwdriver as a lever.

900 Watt Heater

Refer to the cycle chart on the reverse side to determine when the heater is on during the wash the dry portion of the service test mode. cycle. The heater cycles ON and OFF for brief periods during the drying cycle.

Voltage checks of the heater should be made in

Standard Dry Air Flow

of the cycle, a linear actuator retracts a vent valve Standard except it has a cross flow blower located opening a vent path through a console vent into in the air discharge path. The blower assists the the kitchen. This venting method eliminates heating element in producing power to drive the discharging heated moisture into the motor moist air out of the dishwasher. compartment. The heated, moist air leaving the dishwasher through the console vent causes drier air to be drawn into the unit by way of intake vents located at the bottom of the door. The water on the dishes is evaporated into drier air and the venting process continues. The heating element is turned **ON** and **OFF** during the entire drying cycle.

Power Dry Air Flow

When the control advances to the "dry" portion The Power Dry configuration is the same as the

Detergent and Rinse Aid Dispenser

The detergent and rinse aid dispenser is a one • remove the six screws, piece component consisting of a molded detergent cup and a built-in rinse aid dispenser.

The detergent cup has a spring loaded cover and the rinse aid dispenser has a removable cover.

Liquid rinse aid is added to the dispenser up to the fill line indicator. The amount of rinse aid released can be adjusted by turning the arrow indicator from one, being the least amount, to four, being the greatest amount.

To replace dispenser:

- · shut off electricity to dishwasher,
- remove outer door panel assembly,
- disconnect wiring to the actuator,

- remove the dispenser,
- replace and reinstall screws,
- rewire actuator.

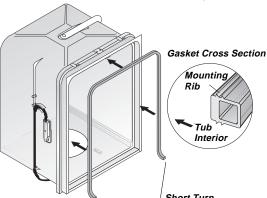
To replace actuator:

- · shut off electricity to dishwasher,
- disconnect wiring to the actuator,
- place a flat head screwdriver under the actuator body and between the dispenser housing and terminal side, twist and lift up on the actuator being careful not to damage the retainer snap-fits.
- · replace with new actuator by pressing into
- · rewire actuator.

Tub and Door Seal

The door seal is pressed into the tub channel for without stretching or bunching. The gasket takes back) at the tub top center and press in place before ending at the channel end wall.

an interference fit. Center the gasket (marked on a short turn at the bottom of the tub channel



Product Specifications

Rating
Motor (HP) ¹ / ₁₂
Motor (Amps)
Heater Wattage 900
Total Amps (load rated) 11.0
TempAssure 136°F ±5°F
(58°C±3°C) [with outer door in place]
TempBoost 144°F ±5°F (62°C ±3°C)
Heated Wash/Heated Rinse
Hi-Limit Thermostat200°F (93°C)
,

Water Supply

Suggested minimum incoming water
temperature120°F (49°C)
Pressure (PSI) min./max20/120
Connection (NPT)3/8"
Consumption (Normal Cycle)
Water valve flow rate (U.S. GPM)
Water recirculation rate (U.S. GPM)
approx. 12
Water fill time 87 sec.

Trouble Shooting Tips

AWARNING

Personal Injury Hazard

Always disconnect the dishwasher from the electrical power source before adjusting or

Symptom	Check the Following	Remedy
Dishwasher will not operate when turned on.	 Fuse (blown or tripped). 120 VAC supply wiring connection faulty. Electronic control board defective. No 12 VAC power to control. Motor (inoperative, check resistances). Door switch (open contacts). Door latch not making contact with door switch. Touch pad circuit defective. No indicator lamps illuminate when 	1. Replace fuse or reset breaker. 2. Repair or replace wire fasteners a dishwasher junction box. 3. Replace control board. 4. Replace transformer. 5. Replace motor/impeller assembly. 6. Replace door switch. 7. Replace latch assembly. 8. Replace console assembly. 9. Replace console assembly.
Matas kuwa kutusili aat ataut a	START or OPTIONS are pressed.	· · · · · · · · · · · · · · · · · · ·
Motor hums but will not start or run.	 Motor (bad bearings or locked rotor). Motor stuck due to prolonged non-use. 	 Replace motor. Rotate motor fan or impeller.
Motor trips out on internal thermal overload protector.	Improper voltage. Seal faces binding.	Check voltage. Rotate motor fan or impeller, o
•	O. Matanahatt bindina	replace.
	 Motor shaft binding. Motor windings shorted. 	 Clear blockage or replace. Replace motor/impeller assembly.
	5. Glass or foreign items in pump.	5. Clean and clear blockage.
Dishwasher runs but will not heat.	Heater element (open).	Replace heater element.
	 Electronic control board defective. Wiring or terminal defective. 	 Replace control board. Repair or replace.
	Hi-Limit thermostat defective.	Replace thermostat.
Detergent cover will not latch or	Latch mechanism defective.	Replace dispenser.
open.	 Electronic control board defective. Wiring or terminal defective. 	 Replace control board. Repair or replace.
	Broken spring(s).	Replace dispenser.
	5. Defective actuator.	5. Replace actuator.
Dishwasher will not pump out.	Drain restricted. Clastropia control board defeative.	Clear restrictions. Paplace control board.
	 Electronic control board defective. Defective drain pump. 	 Replace control board. Replace pump.
	4. Air lock in drain hose.	 Make sure hose is attached in proper position on side of tub.
	5. Blocked impeller.	5. Check for blockage, clear.
	6. Open windings.7. Wiring or terminal defective.	6. Replace windings.7. Repair or replace.
Dishwasher will not fill with water.	Water supply turned off. Defective water inlet fill valve.	Turn water supply on. Replace water inlet fill valve.
	Check fill valve screen for obstructions.	Disassemble and clean screen.
	4. Defective float switch.	4. Repair or replace.
	5. Electronic control board defective.	Replace control board.
	 Wiring or terminal defective. Float stuck in "UP" position. 	 Repair or replace. Clean float.

Dishwasher water siphons out.

- 1. Drain hose (high) loop too low. 2. Drain line connected to a floor drain
- 3. Drain hose not connected to side of

3. Reattach drain hose

Detergent left in dispenser.

- 1. Detergent allowed to stand too long in dispenser.
- 2. Dispenser wet when detergent was
- 3. Detergent cover held closed or blocked by large dishes.
- 4. Improper incoming water temperature to properly dissolve detergent

1. Repair to proper height.

Install air gap at counter top

- Instruct customer/user
- Instruct customer/user on proper loading of dishes. 4. Incoming water temperature of
- 120°F is required to properly dissolve dishwashing detergents.
- 5. See "Detergent cover will not open.

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CE **DATA**

This information is intended for use of these

by persons having electrical and mechanical training and a level of knowledge subjects generally considered acceptable in the appliance repair trade. Frigidaire Company cannot be responsible, nor assume any liability, for injury or damage of any kind arising from the use of this Service Data Sheet.

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W-BKWhite/Black YYellow	H-BKHed/Black R-YRed/Yellow VIOViolet WWhite	RRed	BUBlue	BK-WBlack/White	BKBlack	!		
If not in power failure mode: Cancel any cycle and, with the door latched, press for 3 seconds HI-TEMP WASH and START/CANCEL pads.	While in power failure mode (flashing HI-TEMP WASH, NO HEAT DRY & 'PF' in display): Water/Service Test - press, and hold for 3 seconds, NO HEAT DRY and START/CANCEL pads.		HALF LOWER	HALF UPPER	RINSE & HOLD	CHINA CRYSTAL 60 60 60 90 210 10 180 90 90 90 90 90 90 90	SHORT WASH	
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Cycle Selection Options

FDB939, FDB979 termination of the Temp Assure event is preset to occur on the upper spray arm action.

NOTE 2: HEAT DELAY operation is in progress. This is an optional cycle event. Cycle timing is interrupted while the water is heated to the preset temperature. At either the preset temperature or a default escape time (10 mins.), normal cycle timing resumes. The pump motor is generating lower and upper spray action during this interval. The sequence is 3 seconds pause, 60 seconds wash, 0.6 second pause, 60 seconds wash. The termination of the Heat Delay event is preset to occur on the upper spray arm action.

NOTE 3: This interval time is controlled by the 'CYCLE VARIABLE'.

NOTE 4: This output is ON only for the SHORT WASH cycle.

NOTE 5: This output is ON only for the RINSE & HOLD cycle.

NOTE 7: This output is ON only for POTS & PANS and NORMAL WASH cycle.

NOTE 8: This output is ON only for the NORMAL WASH cycle.

NOTE 9: This output is ON only for the NORMAL WASH cycle. **NOTE 1:** Temp Assure operation is in progress. This is a fixed cycle event. Cycle timing is interrupted while the water is heated to a preset temperature. At either the preset temperature or a default escape time (10 mins.), normal cycle timing resumes. The pump motor is generating lower and upper spray action during this interval. The sequence is 3 seconds pause, 60 seconds wash, 0.6 second pause, 60 seconds wash. The

To select a new cycle or option -

To delay start. start

To lock touch pads

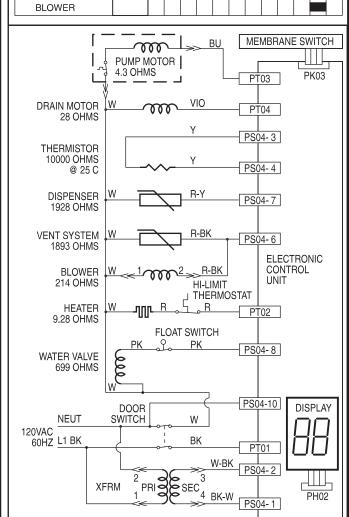
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Models:

RIGIDAIRE

		₹VAL		the NO HEAL DRY option is active.
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Diagnostic	Time Seconds	_	60	30	90	0.6	30	5	60	10	75	90	END
ADD-A-DISH													
WASHING]												
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INTERVAL		1	2	3	4	5	6	7	8	9	10	11	12
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. Press START/CANCEL. Dishwasher will drain for 90 seconds, Touch and hold NO-HEAT DRY for 3 seconds to LOCK. Touch and hold NO-HEAT DRY for 3 seconds to UNLOCK. Press desired cycle and/or option pad. The indicator lights will change. Press START/CANCEL within 15 seconds to begin cycle. Close and latch door. Press DELAY START pad until desired delay (1-9 hrs.) shows in STATUS window. Close and latch door. Press START/CANCEL pad. **OPERATION** STATUS LED's Flashing ----OPTION LED's Flashing WASHING --ADD-A-DISH Wiring DISPLAY CODES (LED)

Dishes may be added now. The indicator light will switch off after the detergent dispenser activates and will remain off for the remainder of cycle. Wash portion of cycle. Rinsing portion of cycle. Drying portion of cycle. Diagram