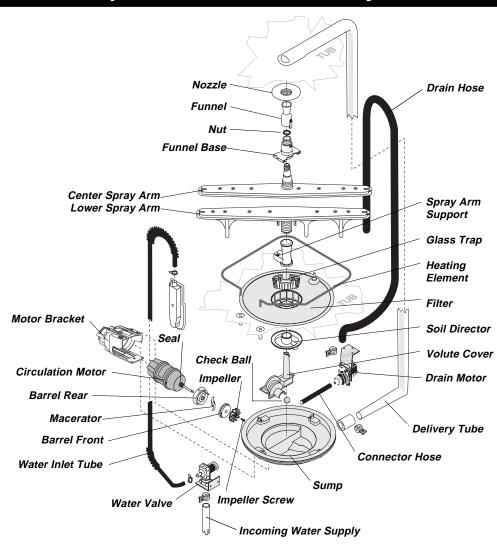
Exploded View of Wash System



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

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.

Refer to the cycle chart on the reverse side to Voltage checks of the heater should be made in

Standard Dry Air Flow

the cycle, a linear actuator retracts a valve, which Standard except it has a cross flow blower located opens a vent path through the console into the in the air discharge path. The blower assists 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 of 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,

- replace and reinstall screws,
- rewire actuator.

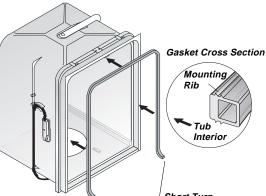
To replace actuator:

- · 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

<u>.</u>	Suggested minimum incoming water
	temperature120°F (49°C)
2	Pressure (PSI) min./max20/120
ļ	Connection (NPT) ³ /8"
)	Consumption (Normal Cycle)
)	6.0 U.S. gal., 5.0 Imp. gal., 22.7 liters
•	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 START or OPTIONS are pressed. 	 Replace fuse or reset breaker. Repair or replace wire fasteners a dishwasher junction box. Replace control board. Replace transformer. Replace motor/impeller assembly. Replace latch assembly. Replace console assembly. Replace console assembly.
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. Motor shaft binding. Motor windings shorted. Glass or foreign items in pump. 	 Check voltage. Rotate motor fan or impeller, o replace. Clear blockage or replace. Replace motor/impeller assembly. Clean and clear blockage.
Dishwasher runs but will not heat.	Heater element (open). Electronic control board defective. Wiring or terminal defective. Hi-Limit thermostat defective.	Replace heater element. Replace control board. Repair or replace. Replace thermostat.
Detergent cover will not latch or open.	Latch mechanism defective. Electronic control board defective. Wiring or terminal defective. Broken spring(s). Defective actuator.	 Replace dispenser. Replace control board. Repair or replace. Replace dispenser. Replace actuator.
Dishwasher will not pump out.	1. Drain restricted. 2. Electronic control board defective. 3. Defective drain pump. 4. Air lock in drain hose. 5. Blocked impeller. 6. Open windings. 7. Wiring or terminal defective.	1. Clear restrictions. 2. Replace control board. 3. Replace pump. 4. Make sure hose is attached in prope position on side of tub. 5. Check for blockage, clear. 6. Replace windings. 7. Repair or replace.
Dishwasher will not fill with water.	Water supply turned off. Defective water inlet fill valve. Check fill valve screen for obstructions. Defective float switch. Electronic control board defective. Wiring or terminal defective. Float stuck in "UP" position.	 Turn water supply on. Replace water inlet fill valve. Disassemble and clean screen. Repair or replace. Replace control board. Repair or replace. Clean float.
Dishwasher water siphons out.	Drain hose (high) loop too low. Drain line connected to a floor drain not vented. Drain hose not connected to side of tub.	Repair to proper height. Install air gap at counter top. Reattach drain hose.
Detergent left in dispenser.	Detergent allowed to stand too long in dispenser. Dispenser wet when detergent was added.	Instruct customer/user. Instruct customer/user.

3. Detergent cover held closed or

temperature to properly dissolve

See "Detergent cover will not open."

blocked by large dishes.

4. Improper incoming water

detergent.

Instruct customer/user on proper

. Incoming water temperature of

120°F is required to properly

dissolve dishwashing detergents

loading of dishes.

ERVICE DATA SHEET

This information is intended for use of these

by persons having electrical and mechanical training and a level of subjects knowledge 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.

Color Code

...Red/Yellow .Black/White White/

Cycle Selection Options

INTERVAL

WASH MOTOR

P/N: 154330402

FRIGIDAIRE

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

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. The termination of

NOTE 3:
NOTE 5:
NOTE 6:
NOTE 7:
NOTE 8:
NOTE 9: This output is (This output is (This output is This output is output

note 3: This interval time is controlled by the 'CYCLE VARIABLE TABLE'. ON only for the SHORT WASH cycle.

ON only for the RINSE & HOLD cycle. ON only for POTS & PANS and NORN

and NORMAL WASH cycle

CYCLE VARIAB	ON only for the NORMAL WASH cycle. OFF when the 'NO HEAT DRY' option is active.
CYCLE VARIA	e NORMAL WASH cycle. , 'NO HEAT DRY' option is act

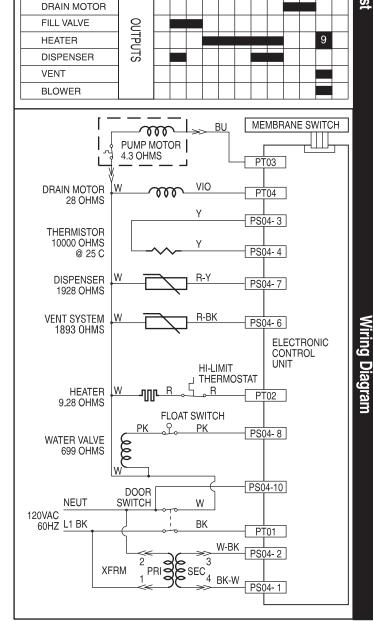
8

				_		_	
	SHORT (UPPER)	SHORT (BOTH)	NORMAL WASH	POTS & PANS		INTERVAL	
	90	ව	45	5	121	ယ	
	60	60	45	4 5	\$	5	Q
	60	60	45	45	WASH	7	
	•	90	300	300		=	H
	270	210 10	•		2ND V	12 17 19	'CYCLE VARIABLE 1
	금	10	5	5	WASH	17	
	180	180	180	180	-	19	5
	135	90 90	90	9		23	5
	45	90	90	90		25	Œ
	135	90	90	90		27	
	45	90 90	90	90 90	윮	29	
	135 45 135 45 135 45	90 90	90	9	3RD WASH	23 25 27 29 31 33	TABLE'
	45		90	90	Ŧ		띧
	135 45	90	90	90		35 37 41	Ш
	45	90	90	90		37	•
	180		90	90		41	
	90	90 180	180	90 180		43	
	•	90	60	8	FT5	66	
		90	90	180 180		43 66 76 88	
	·	·	•	180	НТЭ	88	
_							

11 12 17 19 2ND WASH 300 - 5 180	90 27		રાજા≤ા⇔		1 33 1 33 1 90	1 33 35 /ASH 0 90 90	33 35 37 /ASH 0 90 90 90	ASH 0 90 90 90 90 90 90 90 90 90 90 90 90 90	37 41 43 90 90 180 90 90 180	37 41 43 90 90 180	37 41 43 90 90 180
	19 23 25 7	19 23 25 27 3	19 23 25 27 29 3RD	19 23 25 27 29 31 3	19 23 25 27 29 31 33 34 35 36 36 36 36 36 36 36 36 36 36 36 36 36	23 25 27 29 31 33 3RD WASH	19 23 25 27 29 31 33 35 37 38 38 39 39 39 39 39 39 39 39 39 39 39 39 39	19 23 25 27 29 31 33 35 37 41 380 90 90 90 90 90 90 90 90 90 90 90 90 90	37 41 43	37 41 43	37 41 43 66 76 5TH
	90 25	25 27 3 90 90 9	25 27 29 3 3RD 90 90 90	25 27 29 31 3 3RD WAS 90 90 90 90	25 27 29 31 33 3RD WASH 90 90 90 90	25 27 29 31 33 35 3RD WASH 90 90 90 90 90	25 27 29 31 33 35 37 3RD WASH 30 90 90 90 90 90 90	25 27 29 31 33 35 37 41 3RD WASH 30 90 90 90 90 90 90 90	37 41 43 90 90 180	37 41 43 90 90 180	37 41 43 66 76 5TH 90 90 180 60 180
90 9		5 0 2 E	27 29 3RD	27 29 31 3 3RD WAS	27 29 31 33 3RD WASH 90 90 90 90	27 29 31 33 35 3RD WASH 90 90 90 90 90	27 29 31 33 35 37 3RD WASH 90 90 90 90 90	27 29 31 33 35 37 41 3RD WASH 10 90 90 90 90 90 90	37 41 43 90 90 180	37 41 43 90 90 180	37 41 43 66 76 5TH 90 90 180 60 180

	(j	ì	I		į	į	İ	ŀ	Ì	Ī	ŀ	ľ						
3	5	7	11	12	17	19	23	25	27	29	31	33	35	37	41	43	66	76	88
151	≶	Ł	2	۱	VAS	_				3E		Ŧ					5	크	
45	45	45	300	•	5	180	90	90	90		90		90	90	90	180	60	180	
45	45	45	300	•	5	180	90	90	90	90	90	90	90	90	90	180	ව	90	
60	60	60	90	210	10	180	90	90	90	90	90	90	90	90		180	9	90	
90	60	60	•	270	10	180	135	5	135	45	135	45		45	180	90	Ŀ	Ŀ	
	90 61 45 15 3		3 5 7 1ST WASH 45 45 45 45 45 45 60 60 60 90 60 60	3 5 7 11 1ST WASH 21 45 45 45 300 60 60 60 90 90 60 60 -	3 5 7 11 12 1ST WASH 2ND V 45 45 45 300 - 45 45 45 300 - 60 60 60 90 210 90 60 60 - 270	3 5 7 11 12 17 1ST WASH 2ND WAS 45 45 45 300 - 5 60 60 60 90 210 10 90 60 60 - 270 10	3 5 7 11 12 17 19 1ST WASH 2ND WASH 45 45 45 300 - 5 180 60 60 60 90 210 10 180 90 60 60 - 270 10 180	3 5 7 11 12 17 19 23 1ST WASH ZND WASH 45 45 45 300 - 5 180 90 45 45 45 300 - 5 180 90 60 60 60 90 210 10 180 90 90 60 60 - 270 10 180 135	3 5 7 11 12 17 19 23 25 1ST WASH 2ND WASH 45 45 45 300 - 5 180 90 90 45 45 45 300 - 5 180 90 90 60 60 60 90 210 10 180 90 90 90 60 60 - 270 10 180 135 45	3 5 7 11 12 17 19 23 25 27 1ST WASH 2ND WASH 45 45 45 300 - 5 180 90 90 90 45 45 45 300 - 5 180 90 90 90 60 60 60 90 210 10 180 90 90 90 90 60 60 - 270 10 180 135 45 135	3 5 7 11 12 17 19 23 25 27 29 1ST WASH 2ND WASH 3RI 45 45 45 300 - 5 180 90 90 90 90 45 45 45 300 - 5 180 90 90 90 90 60 60 60 90 210 10 180 90 90 90 90 90 60 60 - 270 10 180 135 45 135 45	3 5 7 11 12 17 19 23 25 27 29 31 1ST WASH ZND WASH ZND WASH 2ND WASH 3RD WASH 2ND WA	MASH ZND WASH 3RD WASH 5 7 11 12 17 19 23 25 27 29 31 33 WASH ZND WASH 3RD WASH 5 45 300 - 5 180 90 90 90 90 90 90 5 45 300 - 5 180 90 90 90 90 90 90 6 60 90 210 10 180 90 90 90 90 90 6 60 - 270 10 180 135 45 135 45 135 45	MASH ZND WASH 3RD WASH 5 7 11 12 17 19 23 25 27 29 31 33 WASH ZND WASH 3RD WASH 5 45 300 - 5 180 90 90 90 90 90 90 5 45 300 - 5 180 90 90 90 90 90 90 6 60 90 210 10 180 90 90 90 90 90 6 60 - 270 10 180 135 45 135 45 135 45	MASH 2ND WASH 3RD WASH 3RD WASH 3RD 90 90 90 90 90 90 90 90 90 90 90 90 90	MASH ZND WASH 3RD WASH 3RD WASH 2ND WASH 3RD WAS	MASH 2ND WASH 3RD WAS	MASH ZND WASH SIDE WASH SI	5 7 11 12 17 19 23 25 27 29 31 33 35 37 41 43 66 76 WASH ZND WASH 3RD WASH 3RD WASH 5TH 5TH 5TH 5TH 5TH 60 180 60 180 60 180 60 180 60 180 60 180 60 180 60 90

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): Water/Service Test - press and hold for 3 seconds NO HEAT DRY and START/CANCEL pads.	Cycle Test Procedure			SHORT (UPPER) 90 60 60 - 270 10 180 135 45 135 45 135 45 135 45 180 90 - - -	SHORT (BOTH) 60 60 60 90 210 10 180 90 90 90 90 90 90 90	NORMAL WASH 45 45 45 300 - 5 180 90 90 90 90 90 90 90	POTS & PANS 45 45 45 300 - 5 180 90 90 90 90 90 90 90 90 90 180 60 180 180	1ST WASH 2ND WASH 3RD WASH 5TH 6TH	INTERVAL 3 5 7 11 12 17 19 23 25 27 29 31 33 35 37 41 43 66 76 88	'CYCLE VARIABLE TABLE'		when the 'NO HEAT DRY' option is active.	lly for the NORMAL WASH cycle.	nly for POTS & PANS and NORMAL WASH cycle.	nly for the RINSE & HOLD cycle.
		Se		_						<u> </u>						
Diagn	ostic	Seconds	Time	_	60	S	3 3	90	0.6	3	5 5	60	10	75	90	END
	A-DISH						I									
WASI		_	_ [
RINS			;				\perp									
DRYI		"	'				\perp			\perp						
CLEA	۸N															



. Press START/CANCEL. Dishwasher will drain for 90 seconds, then shut . Close and latch door, $\ensuremath{\mathsf{Press}}$ DELAY START pad to select desired delay time. Press desired cycle and/or option pad. The indicate START/CANCEL within 15 seconds to begin cycle. Close and latch door. Press START/CANCEL pad Diagnostic Test 9 10 11 12 OPERATION The indicator lights will change. Press OPTION RINSING -DRYING -CLEAN --ADD-A-DISH

To select a new cycle or option . To delay start . .

ᄀ

start

STATUS LED's Flashing ---- The STATUS LED's that are lit when the door is opened will flash. Close door and press START/CANCEL pad to resume cycle. 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