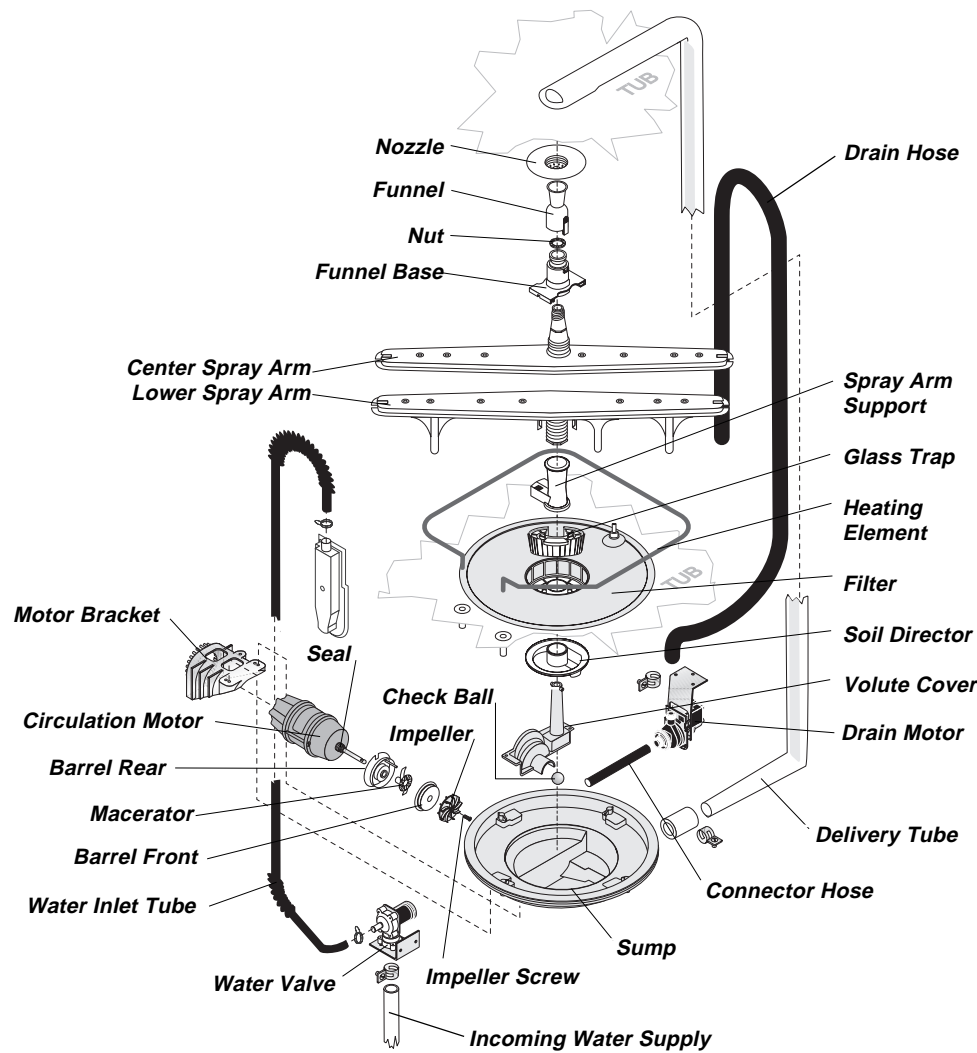


Exploded View of Wash System



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

900 Watt Heater

Refer to the cycle chart on the reverse side to determine when the heater is on during the wash cycle. The heater cycles **ON** and **OFF** for brief periods during the drying cycle.

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.

Voltage checks of the heater should be made in the dry portion of the service test mode.

Standard Dry Air Flow

When the control advances to the "dry" portion of the cycle, a linear actuator retracts a valve, which opens a vent path through the console into the kitchen. This venting method eliminates discharging heated moisture into the motor 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.

Detergent and Rinse Aid Dispenser

The detergent and rinse aid dispenser is a one 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,

Tub and Door Seal

The door seal is pressed into the tub channel for an interference fit. Center the gasket (marked on back) at the tub top center and press in place

Power Dry Air Flow

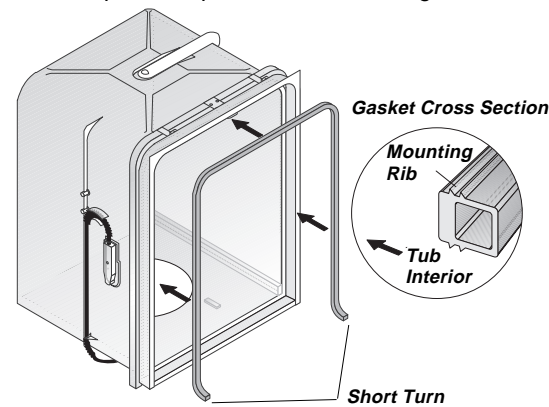
The Power Dry configuration is the same as the Standard except it has a cross flow blower located in the air discharge path. The blower assists the heating element in producing power to drive the moist air out of the dishwasher.

- remove the six screws,
- 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 place,
- rewire actuator.

without stretching or bunching. The gasket takes a short turn at the bottom of the tub channel before ending at the channel end wall.



Product Specifications

Electrical

Rating	120 Volts, 60Hz
Separate Circuit..	15 amp min. - 20 amp max.
Motor (HP)	1/12
Motor (Amps)	3.4
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 Thermostat	200°F (93°C)

Water Supply

Suggested minimum incoming water temperature	120°F (49°C)
Pressure (PSI) min./max.	20/120
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)83
Water recirculation rate (U.S. GPM)	approx. 12
Water fill time	87 sec.

Trouble Shooting Tips

⚠ WARNING

Personal Injury Hazard

Always disconnect the dishwasher from the electrical power source before adjusting or replacing components.

Symptom	Check the Following	Remedy
Dishwasher will not operate when turned on.	<ol style="list-style-type: none"> 1. Fuse (blown or tripped). 2. 120 VAC supply wiring connection faulty. 3. Electronic control board defective. 4. No 12 VAC power to control. 5. Motor (inoperative, check resistances). 6. Door switch (open contacts). 7. Door latch not making contact with door switch. 8. Touch pad circuit defective. 9. No indicator lamps illuminate when START or OPTIONS are pressed. 	<ol style="list-style-type: none"> 1. Replace fuse or reset breaker. 2. Repair or replace wire fasteners at 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.
Motor hums but will not start or run.	<ol style="list-style-type: none"> 1. Motor (bad bearings or locked rotor). 2. Motor stuck due to prolonged non-use. 	<ol style="list-style-type: none"> 1. Replace motor. 2. Rotate motor fan or impeller.
Motor trips out on internal thermal overload protector.	<ol style="list-style-type: none"> 1. Improper voltage. 2. Seal faces binding. 3. Motor shaft binding. 4. Motor windings shorted. 5. Glass or foreign items in pump. 	<ol style="list-style-type: none"> 1. Check voltage. 2. Rotate motor fan or impeller, or replace. 3. Clear blockage or replace. 4. Replace motor/impeller assembly. 5. Clean and clear blockage.
Dishwasher runs but will not heat.	<ol style="list-style-type: none"> 1. Heater element (open). 2. Electronic control board defective. 3. Wiring or terminal defective. 4. Hi-Limit thermostat defective. 	<ol style="list-style-type: none"> 1. Replace heater element. 2. Replace control board. 3. Repair or replace. 4. Replace thermostat.
Detergent cover will not latch or open.	<ol style="list-style-type: none"> 1. Latch mechanism defective. 2. Electronic control board defective. 3. Wiring or terminal defective. 4. Broken spring(s). 5. Defective actuator. 	<ol style="list-style-type: none"> 1. Replace dispenser. 2. Replace control board. 3. Repair or replace. 4. Replace dispenser. 5. Replace actuator.
Dishwasher will not pump out.	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 1. Clear restrictions. 2. Replace control board. 3. Replace pump. 4. Make sure hose is attached in proper position on side of tub. 5. Check for blockage, clear. 6. Replace windings. 7. Repair or replace.
Dishwasher will not fill with water.	<ol style="list-style-type: none"> 1. Water supply turned off. 2. Defective water inlet fill valve. 3. Check fill valve screen for obstructions. 4. Defective float switch. 5. Electronic control board defective. 6. Wiring or terminal defective. 7. Float stuck in "UP" position. 	<ol style="list-style-type: none"> 1. Turn water supply on. 2. Replace water inlet fill valve. 3. Disassemble and clean screen. 4. Repair or replace. 5. Replace control board. 6. Repair or replace. 7. Clean float.
Dishwasher water siphons out.	<ol style="list-style-type: none"> 1. Drain hose (high) loop too low. 2. Drain line connected to a floor drain not vented. 3. Drain hose not connected to side of tub. 	<ol style="list-style-type: none"> 1. Repair to proper height. 2. Install air gap at counter top. 3. Reattach drain hose.
Detergent left in dispenser.	<ol style="list-style-type: none"> 1. Detergent allowed to stand too long in dispenser. 2. Dispenser wet when detergent was added. 3. Detergent cover held closed or blocked by large dishes. 4. Improper incoming water temperature to properly dissolve detergent. 5. See "Detergent cover will not open." 	<ol style="list-style-type: none"> 1. Instruct customer/user. 2. Instruct customer/user. 3. Instruct customer/user on proper loading of dishes. 4. Incoming water temperature of 120°F is required to properly dissolve dishwashing detergents.

SERVICE DATA SHEET

P/N: 154278701



Models:
FDB736

This information is intended for use by persons having electrical and mechanical training and a level of knowledge of these 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.

Notes

- 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, 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 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, 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, 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 TABLE'.
- 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 6:** This output is ON only for POTS & PANS and NORMAL WASH cycle.
- NOTE 7:** This output is ON only for POTS & PANS cycle.
- NOTE 8:** This output is ON only for the NORMAL WASH cycle.
- NOTE 9:** This output is OFF when the 'NO HEAT DRY' option is active.

INTERVAL	3	5	7	11	12	17	19	66	76	88
1ST WASH	45	45	45	300	-	5	180	60	180	180
2ND WASH	-	-	-	-	-	5	180	60	90	-
5TH	-	-	-	-	-	-	-	-	-	90
6TH	-	-	-	-	-	-	-	-	-	-
POTS & PANS	45	45	45	300	-	5	180	60	180	180
NORMAL WASH	45	45	45	300	-	5	180	60	90	-
SHORT WASH	60	60	60	90	210	10	180	90	90	-
RINSE & HOLD	90	60	-	-	210	30	90	-	-	-

Color Code

- BK.....Black
- BK-W.....Black/White
- BU.....Blue
- PK.....Pink
- R.....Red
- R-BK.....Red/Black
- R-Y.....Red/Yellow
- VIO.....Violet
- W.....White
- W-BK.....White/Black
- Y.....Yellow

Cycle Test Procedure

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.

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.

Cycle Selection Options

INTERNAL NUMBER	INTERNAL FUNCTION	DURATION (IN SECONDS)	LED			OUTPUTS			CYCLES								
			CLEAN	DRYING	RINSING	WASHING	ADD-A-DISH	WASH MOTOR	DRAIN MOTOR	FILL VALVE	HEATER	DISPENSER	VENT	BLOWER	NORMAL WASH	SHORT WASH	RINSE & HOLD
1	DRAIN	90															
2	1 - FILL	89															
3	1 - WASH A	#3															
4	1 - WASH B	0															
5	1 - WASH C	#3															
6	1 - WASH D	0															
7	1 - WASH E	#3															
8	1 - WASH F	30															
9	1 - DRAIN	180															
10	2 - FILL	87															
11	2 - WASH A	#3															
12	2 - WASH B	#3															
13	2 - PAUSE	0.6															
14	2 - WASH C	30															
15	2 - WASH D	3															
16	2 - PAUSE	0.6															
17	2 - WASH E	#3															
18	2 - WASH F	30															
19	2 - DRAIN	#3															
20	3 - FILL	87															
21	3 - WASH A	90															
22	3 - PAUSE	0.6															
23	3 - WASH B	90															
24	3 - PAUSE	3															
25	3 - WASH C	90															
26	3 - PAUSE	0.6															
27	3 - WASH D	90															
28	3 - PAUSE	3															
29	3 - WASH E	90															
30	3 - PAUSE	0.6															
31	3 - WASH F	90															
32	3 - PAUSE	3															
33	3 - WASH G	90															
34	3 - PAUSE	0.6															
35	3 - WASH H	90															
36	3 - PAUSE	3															
37	3 - WASH I	90															
38	3 - PAUSE	0.6															
39	TEMP ASSURE	#1															
40	HEAT DELAY	#2															
41	3 - WASH J	90															
42	3 - WASH K	30															
43	3 - DRAIN	180															
44	4 - FILL	87															
45	4 - PAUSE	3															
46	4 - WASH A	75															
47	4 - PAUSE	0.6															
48	4 - WASH B	75															
49	4 - PAUSE	3															
50	4 - WASH C	75															
51	4 - PAUSE	0.6															
52	4 - WASH D	75															
53	4 - WASH E	30															
54	4 - DRAIN	180															
55	5 - FILL	87															
56	5 - WASH A	60															
57	5 - PAUSE	3															
58	5 - WASH B	60															
59	5 - PAUSE	0.6															
60	5 - WASH C	60															
61	5 - PAUSE	3															
62	5 - WASH D	60															
63	5 - PAUSE	0.6															
64	5 - WASH E	60															
65	5 - PAUSE	3															
66	5 - WASH F	#3															
67	5 - PAUSE	0.6															
68	5 - WASH G	60															
69	5 - PAUSE	3															
70	5 - WASH H	60															
71	5 - PAUSE	0.6															
72	TEMP ASSURE	#1															
73	HEAT DELAY	#2															
74	5 - WASH I	90															
75	5 - WASH J	30															
76	5 - DRAIN	#3															
77	6 - FILL	87															
78	6 - WASH A	90															
79	6 - PAUSE	3															
80	6 - WASH B	75															
81	6 - PAUSE	0.6															
82	6 - WASH C	75															
83	6 - PAUSE	3															
84	6 - WASH D	75															
85	6 - PAUSE	0.6															
86	6 - WASH E	75															
87	6 - WASH F	30															
88	6 - DRAIN	#3															
89	7 - FILL	87															
90	7 - WASH A	90															
91	7 - PAUSE	3															
92	7 - WASH B	75															
93	7 - PAUSE	0.6															
94	7 - WASH C	75															
95	7 - PAUSE	3															
96	7 - WASH D	75															
97	7 - PAUSE	0.6															
98	7 - WASH E	75															
99	7 - WASH F	30															
100	7 - DRAIN	90															
101	DRY	180															
102	DRY	180															
103	DRY	90															
104	DRY	180															
105	DRY	180															
106	DRY	180															
107	DRY	180															
108	DRY	90															
109	DRY	180															
110	DRY	60															
111	DRY	240															
112	DRY	60															
113	CLEAN	END															

- ### OPERATION
- To start** Close and latch door