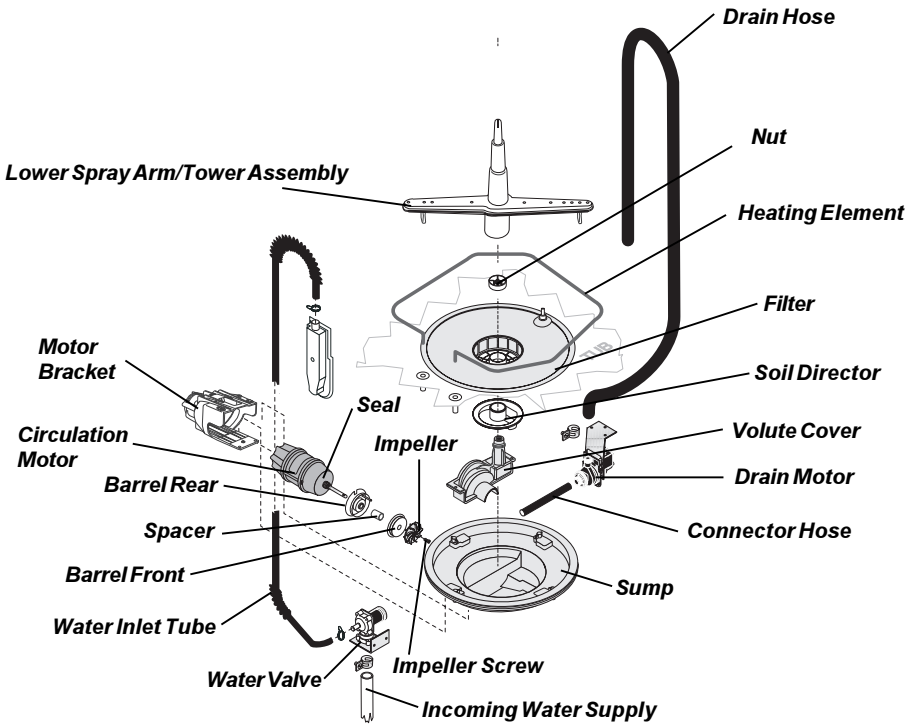
Exploded View of Wash System



Pump Assembly

The pump assembly is driven by a 1/12 HP, shaded pole motor. Rotation is in the counter-clockwise direction at 3100 to 3200 RPM. The motor drives a pump which supplies 100 percent filtered water at a rate to approximately 12 GPM.

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 drain pump connector hose and the wiring harness connections made at the circulation motor. Once the pump assembly is removed from the dishwasher, the motor/impeller assembly can be removed from the sump by taking out the five (5) T-20 Torx head screws from the plastic 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.

700 Watt Heater

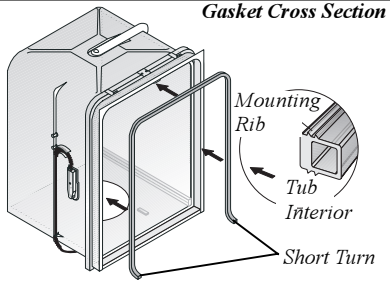
Refer to the cycle chart on the reverse side to determine when the heater is on during the wash cycle.

Voltage checks of the heater should be made with the timer set in the main wash.

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

Gasket Cross Section



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	700
Total Amps (load rated)	9.5

Water Supply

Minimum incoming water temperature	120°F (49°C)
Pressure (PSI) min./max.	20/120
Connection (NPT)	3/8"
Consumption (Normal Cycle)	6.9 U.S. gal., 5.8 imp. gal., 26.1 liters

Trouble Shooting Tips

⚠WARNING

Electric Shock Hazard

Disconnect electrical power at the fuse box or circuit breaker box before adjusting or replacing components. Failure to follow this warning could result in death or serious injury.

Check the list below each symptom. Repair or replace defective components as encountered.

Symptom. . .Dishwasher will not operate when turned on (wait at least 90 seconds).
1. Fuse (blown or tripped).
2. 120 VAC supply wiring connection faulty.
3. Timer (contacts open or defective)
4. Motor (inoperative, check resistances).
5. Door switch (open contacts).
6. Door latch not making contact with door switch.
7. Selector switch (open contacts).

Symptom. . .Motor hums but will not start or run.
1. Motor (bad bearings or locked rotor).
2. Motor stuck due to prolonged non-use.

Symptom. . .Motor trips out on internal thermal overload protector.
1. Improper voltage.
2. Seal faces binding.
3. Motor shaft binding.
4. Motor windings shorted.
5. Glass or foreign items in pump.

Symptom. . .Dishwasher runs but will not heat.
1. Heater element (open).
2. Timer defective.
3. Wiring or terminal defective.

Symptom. . .Dishwasher will not pump out.
1. Drain restricted.
2. Timer contact defective.
3. Defective drain pump.
4. Air lock in drain hose.
5. Make sure hose is attached in proper position on side of tub.
6. Blocked impeller.
7. Open windings.

Symptom. . .Dishwasher will not fill with water.
1. Water supply turned off.
2. Defective water inlet fill valve.
3. Check fill valve screen for obstructions.
4. Defective float switch.
5. Timer contact defective.
6. Wiring defective.
7. Float stuck in "UP" position.

Symptom. . .Timer does not advance.
1. Timer motor (stalled or open.)
2. Check timer for power to timer motor.
3. Timer shaft binding to or knob interference with escutcheon.

Symptom. . .Dishwasher water siphons out.
1. Drain hose (high) loop too low.
2. Drain line connected to a floor drain not vented. (Install air gap at counter top.)
3. Drain hose not connected to side of tub.

SERVICE DATA SHEET

P/N: 154331202

Models: MDB100, MDB110

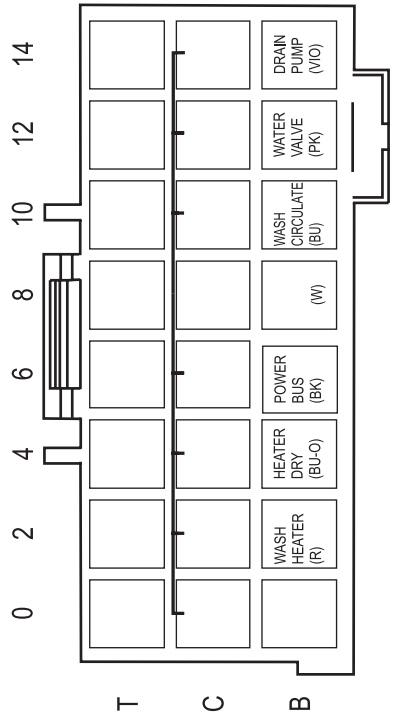
(060398)

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.

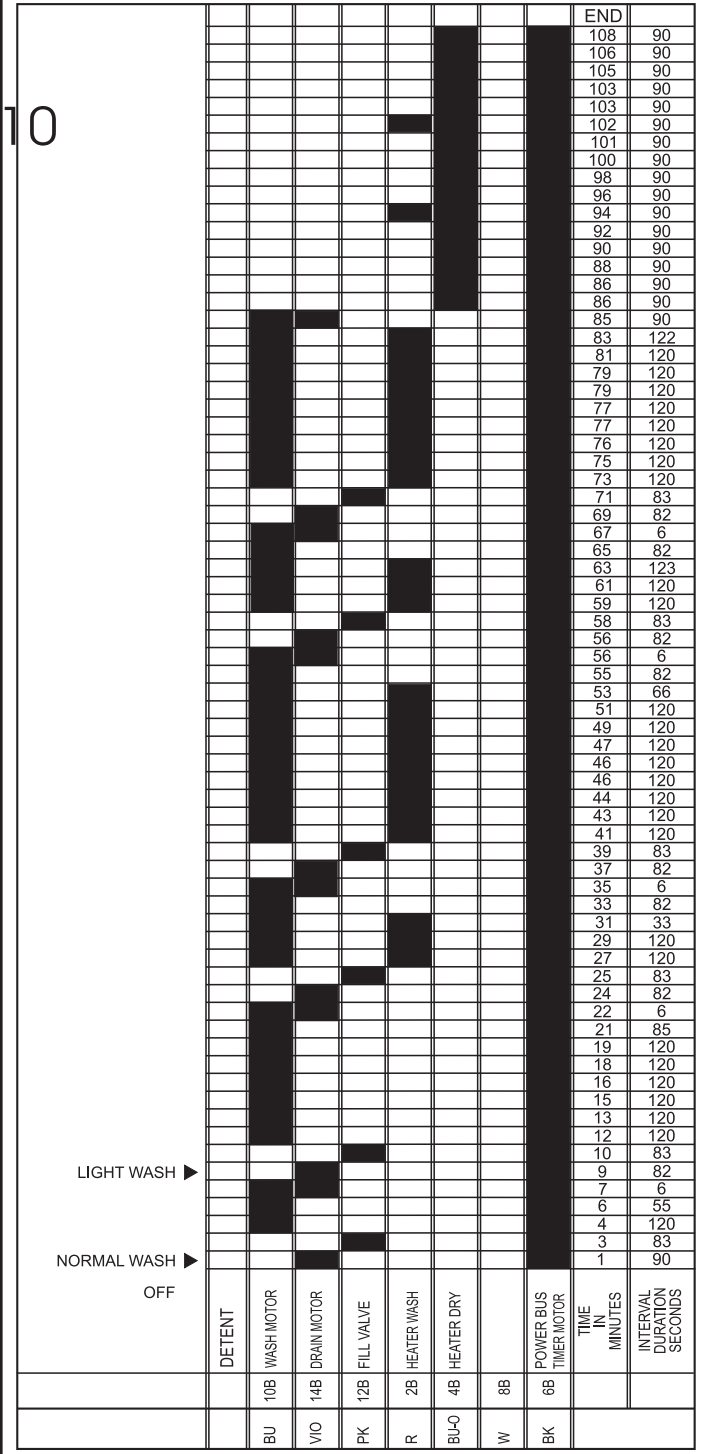
Color Code

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

Timer Block



Cycle Chart



Wiring Diagram