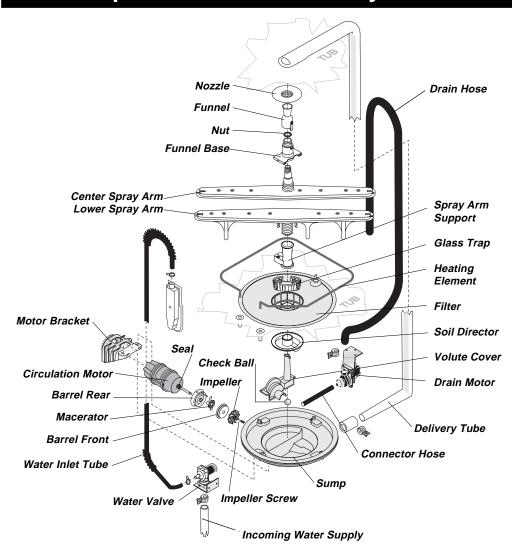
Exploded View of Wash System



Pump Assembly

The pump assembly is driven by a $\frac{1}{12}$ 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 to 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 thermostats 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 Product Specifications 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 with the timer set in the main wash. 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

Standard Dry Air Flow

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

Detergent and Rinse Aid Dispenser

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

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,

Power Dry Air Flow

- rewire actuator.

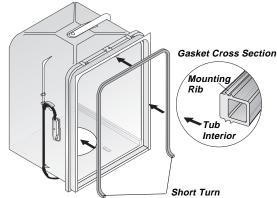
To replace actuator:

- · 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.

Tub and Door Seal

back) at the tub top center and press in place before ending at the channel end wall.

The door seal is pressed into the tub channel for without stretching or bunching. The gasket takes an interference fit. Center the gasket (marked on a short turn at the bottom of the tub channel



Rating 120 Volts, 60Hz
Separate Circuit15 amp min 20 amp max.
Motor (HP) ¹ / ₁₂
Motor (Amps) 3.4
Heater Wattage 900
Total Amps (load rated) 11.0
TempAssure (some models) 117°F±5°F
(47°C±3°C) [with outer door in place]
TempBoost (some models)127°F (53°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)		
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

AWARNING

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 (wait at least 90 seconds).	 Fuse (blown or tripped). 120 VAC supply wiring connection faulty. Timer (contacts open or defective) Motor (inoperative, check resistances). Door switch (open contacts). Door latch not making contact with door switch. 	 Replace fuse or reset breaker. Repair or replace wire fasteners a dishwasher junction box. Replace timer. Replace motor/impeller assembly. Replace door switch. Replace asleater switch.
Motor hums but will not start or run.	Selector switch (open contacts). Motor (bad bearings or locked rotor). Motor stuck due to prolonged	Replace selector switch. Replace motor. Rotate motor fan or impeller.
	non-use.	
Motor trips out on internal thermal overload protector.	Improper voltage. Seal faces binding.	Check voltage. Rotate motor fan or impeller, o replace.
	 Motor shaft binding. Motor windings shorted. Glass or foreign items in pump. 	 Clear blockage or replace. Replace motor/impeller assembly. Clean and clear blockage.
Dishwasher runs but will not heat.	Heater element (open). Timer defective. Wiring or terminal defective. Hi-limit thermostat defective.	Replace heater element. Replace timer. Repair or replace. Replace thermostat.
Detergent cover will not latch or open.	1. Latch mechanism defective. 2. Timer contact defective. 3. Wiring or terminal defective. 4. Broken spring(s). 5. Defective actuator.	 Replace dispenser. Replace timer. Repair or replace. Replace dispenser. Replace actuator.
Dishwasher will not pump out.	1. Drain restricted. 2. Timer contact defective. 3. Defective drain pump. 4. Air lock in drain hose. 5. Blocked impeller. 6. Open windings.	 Clear restrictions. Replace timer. Replace pump. Make sure hose is attached in prope position on side of tub. Check for blockage, clear. Replace windings.
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.	 Turn water supply on. Replace water inlet fill valve. Disassemble and clean screen. Repair or replace. Replace timer. Repair or replace. Clean float.
Timer does not advance.	Timer motor (stalled or open.) Check timer for power to timer motor. Timer shaft binding to or knob interference with escutcheon. TempBoost thermostat defective.	Replace timer. Repair or replace timer. Repair or adjust. Replace or adjust position o thermostat.
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. Detergent cover held closed or blocked by large dishes. Improper incoming water temperature to properly dissolve detergent.	Instruct customer/user. Instruct customer/user. Instruct customer/user on prope loading of dishes. Incoming water temperature of 120°F is required to properly dissolve dishwashing detergents.



this product. appliance by unqualified persons cannot be held against the seller or manufacturer of personal injury or property damage resulting from the attempted repair of this

This information is for use by individuals trained in the proper diagnostic techniques of the electrical and mechanical fields. Any

P/N: 154295101

Models: MDB121 MDB12(

O.....Orange O-BK....Orange/Black O-W....Orange/White PK....Pink PK-BK PK-BK......Pink/Black PK-W.....Pink/White

BR-W.....BU-O.....

Brown/WhiteBrown Black/Yellow Black/White

.Blue

Blue/Orange

BK-W

Black

R.....Red R-BK......Red/Black
R-W.....Red/White
R-Y.....Red/Yellow Yo W.....White Violet Yellow/BlackYellow

DISPEN-DRAIN NEUTRAL DRY **PUMP** B **MOTOR** SERS SYSTEM **MOTOR** (R-Y) (R-BK) (BU) (VIO) T. M. T. M.

6

POWER

BUS

(BK)

(O)

4

POWER

BUS

(BK)

(O)

J1

8

(O)

J2

0

HEATER

WATER

(R)

Τ

D

WATER

VALVE

(PK)

(O)

Ĵ2

10

(O)

Ì1

12

14

HEATER

DRY

(BU-O)

