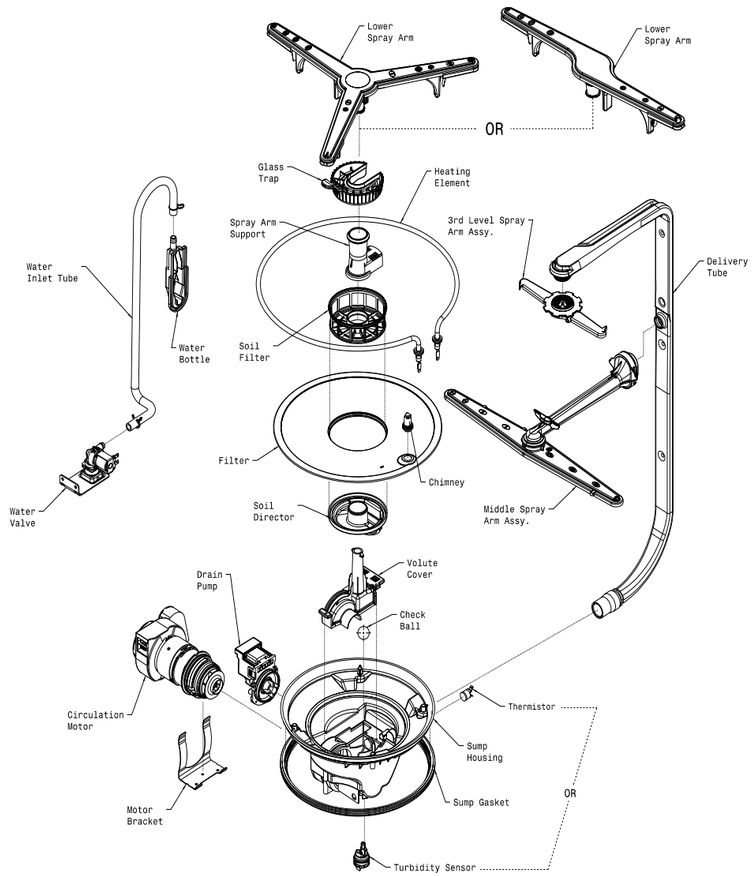
Exploded View of Wash System



Pump Assembly

The pump assembly is driven by a synchronous motor. Rotation is in the counterclockwise direction at 3600 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 discharge end of the drain pump. The drain hose is attached by a worm gear clamp to the discharge end of the drain pump.

The drain hose must have a loop at a ***minimum height of 32 inches*** in order to insure proper drainage.

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

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.

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. 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.

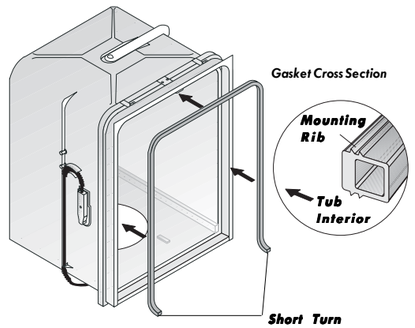
Liquid rinse aid is added to the dispenser up to the fill line indicator. The amount of rinse aid released can be adjusted by turning the arrow indicator from one, being the least amount, to four, being the greatest amount.

To replace dispenser:

- shut off electricity to dishwasher,
- remove outer door panel assembly,
- disconnect wiring to the actuator,
- remove the six screws,
- remove the dispenser,
- replace and reinstall screws,
- rewire 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 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 (Amps)	0.6
Heater Wattage	900
Total Amps (load rated)	10.0
TempAssure	140°F ±5°F (60°C±3°C) [with outer door in place]
TempBoost	145°F ±5°F (63°C ±3°C) Heated Wash/Heated Rinse
Sanitize	155°F ±5°F (66°C ±3°C)
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)	4.9 - 9.7 U.S. gal., 18.5 - 36.7 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.	1. Fuse (blown or tripped). 2. 120 VAC supply wiring connection faulty. 3. Electronic control board defective. 4. Motor (inoperative). 5. Door switch (open contacts). 6. Door latch not making contact with door switch. 7. Touch pad circuit defective. 8. No indicator lamps illuminate when START or OPTIONS are pressed.	1. Replace fuse or reset breaker. 2. Repair or replace wire fasteners at dishwasher junction box. 3. Replace control module. 4. Replace motor/impeller assembly. 5. Replace latch assembly. 6. Replace latch assembly. 7. Replace console assembly. 8. Replace console assembly.
Motor hums but will not start or run.	1. Motor (bad bearings). 2. Motor stuck due to prolonged non-use.	1. Replace motor assembly. 2. Rotate motor impeller.
Motor trips out on internal thermal overload protector.	1. Improper voltage. 2. Motor windings shorted. 3. Glass or foreign items in pump.	1. Check voltage. 2. Replace motor/impeller assembly. 3. Clean and clear blockage.
Dishwasher runs but will not heat.	1. Heater element (open). 2. Electronic control board defective. 3. Wiring or terminal defective. 4. Hi-Limit thermostat defective.	1. Replace heater element. 2. Replace control module. 3. Repair or replace. 4. Replace thermostat.
Detergent cover will not latch or open.	1. Latch mechanism defective. 2. Electronic control board defective. 3. Wiring or terminal defective. 4. Broken spring(s). 5. Defective actuator.	1. Replace dispenser. 2. Replace control module. 3. Repair or replace. 4. Replace dispenser. 5. Replace dispenser.
Dishwasher will not pump out.	1. Drain restricted. 2. Electronic control board defective. 3. Defective drain pump. 4. Blocked impeller. 5. Open windings. 6. Wiring or terminal defective.	1. Clear restrictions. 2. Replace control module. 3. Replace pump. 4. Check for blockage, clear. 5. Replace pump assembly. 6. Repair or replace.
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. Electronic control board defective. 6. Wiring or terminal defective. 7. Float stuck in "UP" position.	1. Turn water supply on. 2. Replace water inlet fill valve. 3. Disassemble and clean screen. 4. Repair or replace. 5. Replace control module. 6. Repair or replace. 7. Clean float.
Dishwasher water siphons out.	1. Drain hose (high) loop too low. 2. Drain line connected to a floor drain not vented.	1. Repair to proper ***32-inch minimum height***. 2. Install air gap at counter top.
Detergent left in dispenser.	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."	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: 154846001

Models:
587.1537*, 1538*
* = Color Number

This information is intended for the use by persons having electrical and mechanical training and a level of knowledge of these subjects generally considered acceptable in the appliance repair trade. The manufacturer or seller 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
BU.....Blue
PK.....Pink
R..... Red
R-BK.....Red/Black
R-Y.....Red/Yellow
VIO.....Violet
W.....White

Operation

To start ..... Close and latch door. Press START/CANCEL pad.

To delay start ... Close and latch door. Press DELAY START pad to select desired delay time.

To select a new cycle or option .. Press desired cycle and/or option pad. The indicator lights will change. Press START/CANCEL within 15 seconds to begin cycle.

To cancel cycle . Press START/CANCEL. Dishwasher will drain for 90 seconds, then shut off.

For controls lock ..... Press and hold the QUICK RINSE pad for 3 seconds. To unlock, press and hold the QUICK RINSE pad again for 3 seconds.

Water/Service Test

The Water/Service Test is a special function initiated from the Power Failure Mode or Idle Mode.

While in Power Failure Mode, simultaneously press the AIR DRY and START/CANCEL pads for 1 1/2 seconds. While in Idle Mode, simultaneously press the HI-TEMP WASH and START/CANCEL pads for 6 seconds.

The dishwasher will then step through the test cycle per the chart. Pushing the START/CANCEL pad will advance the dishwasher to the next step.

STEP		TOTAL TIME (SEC)	WATER VALVE	CIRCULATION MOTOR	DRAIN MOTOR	HEATER	DISPENSER	VENT*	WASHING LED	SANITIZED LED	DRYING LED	CLEAN LED
1	FILL/DISPENSER	60	1	0	0	0	1	1	1	0	0	0
2	FILL	27	1	0	0	0	0	1	1	0	0	0
3	WASH/HEAT/DISP.	60	0	1	0	1	1	1	1	0	0	0
4	PAUSE	0.4	0	0	0	1	0	1	1	0	0	0
5	WASH/HEAT	75	0	1	0	1	0	1	0	0	0	0
6	WASH/HEAT/DISP.	60	0	1	0	1	1	1	0	0	0	0
7	DRAIN	90	0	0	1	0	0	1	0	0	0	0
8	DRY	90	0	0	1	X	0	0	0	0	1	0
	TOTAL	462.4							0	1	0	1

X - denotes selectable option

SANITIZE and CLEAN LED stays on until door is opened or cycle is started.

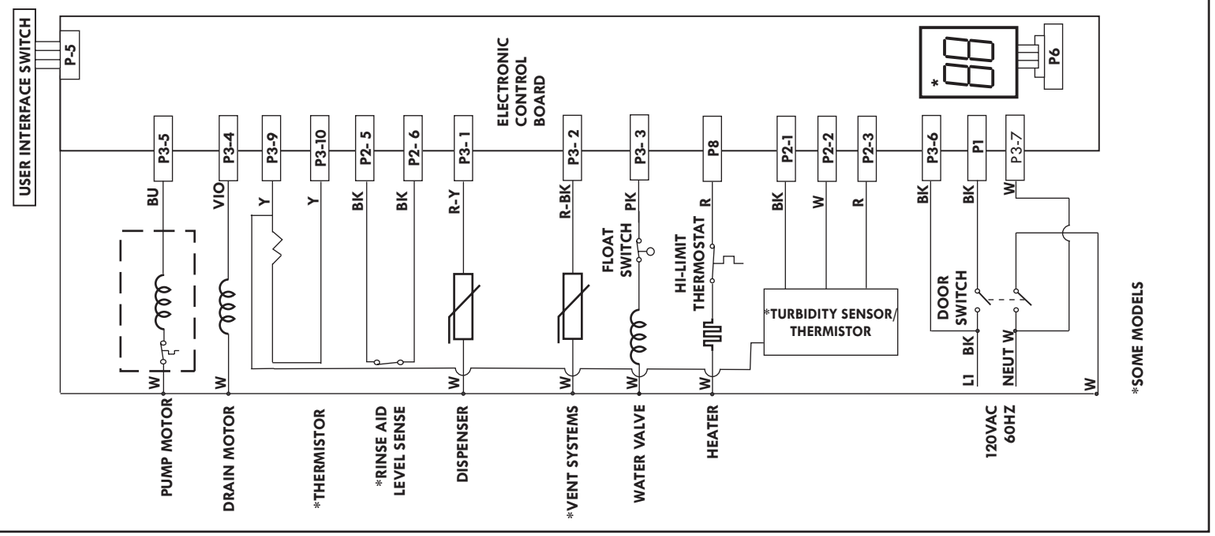
Display Codes (Readout)

LO.....Low liquid in the rinse aid dispenser
PF.....A power failure has occurred
Hd or HO.....Water heating delay
CL.....Close and latch the door
'01-24'....Hour(s) delay before start (Some models)
'01-10i....Hour(s) delay before start (Some models)

Display Codes (LED)

SENSING ----------Turbidity sensor is checking the condition of the wash/rinse water. No sensing for LIGHT WASH (UPPER RACK), LIGHT WASH (LOWER RACK) and CHINA/CRYSTAL.
WASHING ----------Wash portion of cycle.
SANITIZED ----------The SANITIZED criteria has been met. Indicator light will switch off when door is opened.
DRYING ---------- Drying portion of cycle.
CLEAN ---------- Shows completion of cycle. Indicator light will switch off when door is opened.
OPTION LED's Flashing -- HI-TEMP WASH and NO HEAT DRY/POWER DRY OFF LED's flashing indicates power failure has occurred. Press START/CANCEL pad and reselect desired options and cycle.
STATUS LED's Flashing -- The STATUS LED's that are lit when the door is opened will flash. Close door.
RINSE AGENT LOW -------- The liquid rinse agent is low. Light will switch off after 5 complete wash cycles or dispenser is filled. (Some models)

Wiring Diagram



Cycle Selection Options