

Color Code

BK.....	Black
BU.....	Blue
PK.....	Pink
RD.....	Red
GN.....	Green
OR.....	Orange
WH.....	White
BR.....	Brown
YE.....	Yellow
GY.....	Gray

Operation

To start	Press START pad and close the door in 4s.
To delay start . . .	Press DELAY pad to select desired delay time, then Press START pad and close door in 4s.
To select a new cycle or option . . .	Press desired cycle and/or option pad. The indicator lights will change. Press the START pad.
To cancel cycle . .	Open the door to pause the running cycle, and press CANCEL, the unit will stop after the drain cycle.
For controls lock	Press HEAT DRY pad and hold for 3s, the unit will be locked, and the LOCK led will illuminate. Again, press HEAT DRY pad and hold for 3s, the unit will be unlock and the LOCK led will be off.

Display Codes (Readout)	Display Codes (LED)
PF.....A power failure has occurred CLOSE.....Close and latch the door '01-24'.....Hour(s) delay before start 'i1-i9';'id'.....Error code	The Washing LED is illuminated during the washing cycle. The Drying LED is illuminated during the drying cycle. After the cycle is completed, the Clean LED will illuminate. When SANITIZE is selected, the SANITIZED led is illuminated once the cycle is ended.

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Water/Service Test																
The water/service test is used to verify individual circuit and component function; It is accessed during the first 60 seconds after a power off reset and PF is shown in the display. Within 60 seconds after PF is displayed, press the Cancel and Normal pad together and release, and then the unit will step through the test cycle per the chart automatically. Press Cancel pad to advance to the next step. After test cycle is done, pres Cancel and hold 3s for quit.	STEP		TOTAL TIME (SEC)	WATER VALVE	CIRCULATION MOTOR	DRAIN MOTOR	HEATER	DISPENSER	WASHING LED	DRYING LED	CLEAN LED	SANITIZED LED				
	1	FILL	90	1	0	0	0	0	1/0	1/0	1/0	1/0				
	2	WASH/HEAT	90	0	1	0	1	0	1/0	1/0	1/0	1/0				
	3	WASH/ DISP.	60	0	0	0	0	1	1/0	1/0	1/0	1/0				
	4	PAUSE	30	0	1	0	0	0	1/0	1/0	1/0	1/0				
	5	DRAIN	30	0	0	1	0	0	1/0	1/0	1/0	1/0				
		During the whole test step, the Washing, Drying, Clean and Sanitized led flashes in turn.														

Cycle Indicator

Cycle	Options available	Water usage	Cycle Time
AUTO	HEAT DRY	2.5–4.9 gal. 9.5–18.5 liters	120–155 mins.
HEAVY	SANITIZE, HI TEMP, OR HEAT DRY	4.9 gal. 18.5 liters	155–160 mins.
NORMAL	SANITIZE, HI TEMP, OR HEAT DRY	2.5–4.9 gal. 9.5–18.5 liters	125–160 mins.
FAST	HEAT DRY	3.3 gal. 12.5 liters	60–100 mins.
RINSE	HEAT DRY	1.8 gal. 6.7 liters	20–55 mins.

[illegible]

CODE	Designation	CODE	Designation
ACL	Line(Alternating Current)	ISB	Rinse Aid Detector
ACN	Neutral(Alternating Current)	ML	Wash Pump
D/Ed	Dispenser	PS	Drain Pump
EV1	Inlet Valve	FUSE	Fuse(3.15A)
IAQS	Overflow Switch	R	Heater
FM	Flow Meter	DOOR	Door Switch
P2	Dry Heating Protect Switch	IS	Door Switch Detector
P1	Water Level Switch(140/120)	RE	Thermistor(NTC)
		NS	Nephelometer/Turbidity

Pump Assembly

This model utilizes a main wash pump to circulate filtered water over the dishes and a separate drain pump that includes a check valve.

Heater

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

The heated, moist air leaves the dishwasher through the condensor pipe during dry cycle.

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 as following,

- Within first 60s recovery from power failure mode, open the door.
 - press the NORMAL pad and hold for 5s,
 - till the display shows "d-", press NORMAL to adjust the amount from "d1" to "d5".
- To replace dispenser:
- shut off electricity to dishwasher,
 - remove outer door panel assembly,
 - disconnect wiring to the dispensor.
 - replace with a new dispenser.

Product Specifications
Electrical

Rating 120 Volts, 60Hz
Separate Circuit..15 amp min.- 20 amp max.
Motor (Amps)0.5 - 0.85
Heater Wattage 300 - 735W
Total Amps (load rated)6.7
TempAssure 135°F ±5°F
(60°C±3°C) [with outer door in place]
TempBoost 140°F ±5°F
Heated Wash/Heated Rinse

Water Supply

Suggested minimum incoming water temperature120°F (49°C)
Pressure (PSI) min./max. 20/120
Connection (NPT) 3/8"
Consumption (Normal Cycle) 2.5 - 4.9 U.S. gal
Water valve flow rate (U.S. GPM) 0.9
Water recirculation rate (U.S. GPM) approx. 5.28
Water fill time 90 sec.

Error code and descryption

Error code	Error description	Check the following
i1	Water filling procedure error	1. Check the water supply. 2. Check the inlet valve. 3. Check the inlet hose. 4. Check the flowmeter. 5. Check the water level switch. 6. Check the drain pump and hose. 7. Check the main board.
i3	Water heating error (Only occurs in test cycle.)	1. Check the heater. 2. Check the thermistor. <i>Normal resistance value is R25°C=10K±2%,R60°C=3011±2%</i> 3. Check the PCB.
i4	Water leaking error	1. Check the use of the detergent. 2. Check if the unit located on the level ground. 3. Check the overflow switch at the bottom. 4. Check the drain pump. 5. Check the amount of the filled water. 6. Find the leaking point.
i6/i7	Water temperature sensor error. (Only occurs in test cycle.)	1. Check the water temperature. 2. Check the thermistor. <i>Normal resistance value is R25°C=10K±2%,R60°C=3011±2%</i> 3. Check the PCB.
i9	Cap touch error (Only occurs in test cycle.)	One of the cap touch pad is activated for more than 30s. 1. Check any foreign object or moisture on the pad. 2. Check display PCB.
id	PCB communication error.	1. Check diplay and PCB board. 2. Check the wire connected the boards.

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. No 12 VAC power to control. 5. Motor (inoperative). 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.	1. Replace fuse or reset breaker. 2. Repair or replace wire fasteners at dishwasher junction box. 3. Replace control board. 4. Replace control board. 5. Replace motor/impeller assembly. 6. Replace latch assembly. 7. Replace latch assembly. 8. Replace console assembly. 9. 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. Thermostat defective.	1. Replace heater element. 2. Replace control board. 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 board. 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 board. 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 over flow switch. 5. Electronic control board defective. 6. Wiring or terminal defective. 7. Water level Switch Stuck.	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. Repair or replace.
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.

Exploded View of Wash System

