

- If > 3 ohms, then fuse open. WHAT TO DO IF FUSE OPEN:

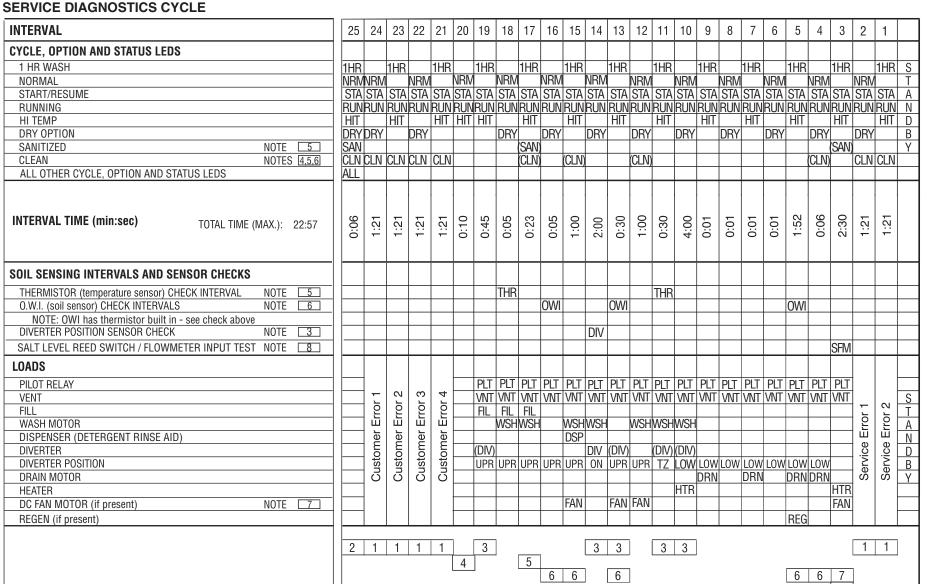
- If < 3 ohms, then fuse OK.

diagram).

Inspect and check resistance of all loads on fuse. If any loads are open, shorted, or have evidence of overheating or pinched wires, then replace them.

are on bottom of control board, but can be

checked from top side (see Meter Check



SERVICE DIAGNOSTICS NOTES

- 1 To invoke the Diagnostics Cycle, perform the owing while in standby:
- Press any 3 keys in the sequence 1-2-3-1-2-3-1-2-3 with no more than 1 second between keys.
- The Service Diagnostics Cycle will start when the door is closed.

 To rapid advance 1 interval at a time, press the
- Start/Resume key. Rapid advancing may skip sensor checks as some checks require 2 complete intervals.
- NOTE: While in the Diagnostic Cycle, the Start/ Resume feature is turned off (for example, Auto Resume after door interrupts) and the Start/Resume
- key becomes an interval advance key.

 Invoking Service Diagnostics clears all status and last run information from memory and restores defaults. It also forces the next cycle to
- Last run cycles and options returned to default (Normal cycle with Heated Dry option).
- Last run delay returns to the lowest delay increment. ■ Calibration cycle may force an extra rinse to occur prior to Final Rinse (to assure clear water), then calibrates the OWI and the fill amount during
- the final rinse. ■ Operating state returns to Standby upon completing or terminating the Service Diagnostics
- 2 Turn on all LEDs immediately upon receiving the entry sequence (even if the door is open) and throughout this first interval as a display test. iverter will be on continuously in interval 14. In all other diverter intervals, diverter will only be on until it reaches the intended position for that interval. 4 Press Hi Temp key in this interval to clear

5 Thermistor (temperature sensor) checks - turn clean LED on if thermistor is in its normal temperature range (32°F to 167°F). Turn sanitized LED on if fill temperature is above 85°F.

6 OWI (optical soil sensor) checks:

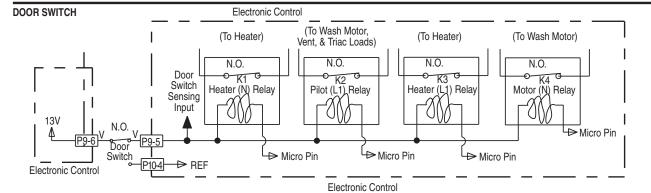
P10

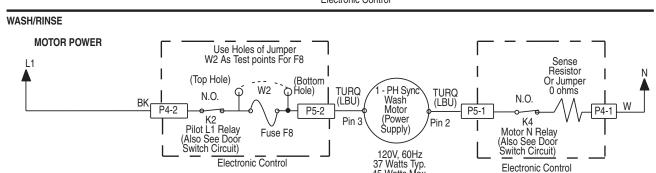
Check OWI sensor for the presence of water during the 5 sec. pause in interval 16 and turn on the Clean LED in interval 15 if water detected. ■ Check OWI sensor for presence of bulk soil

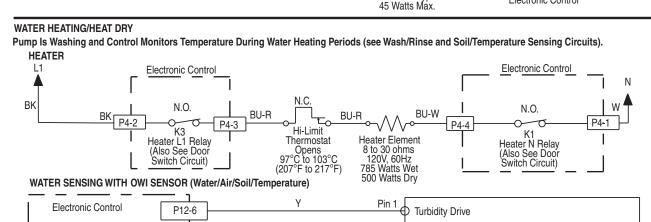
during pause interval 13 and turn on the Clean LED in interval 12 if bulk soil detected. ■ Drain until OWI sensor sees the presence of air or a max. of 1:52 during interval 5 and turn on the

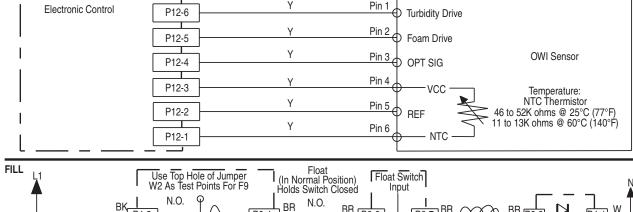
Clean LED in interval 4 if air detected. DC Fan Motor is on during upper rack washing 8 Turn on Sanitized LED in this interval to indicate

that the salt level reed switch is closed

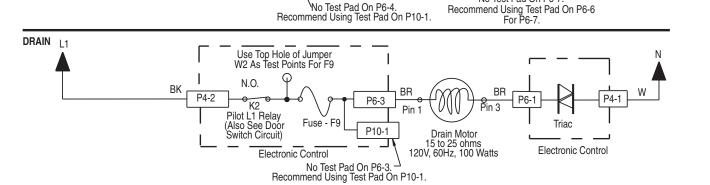








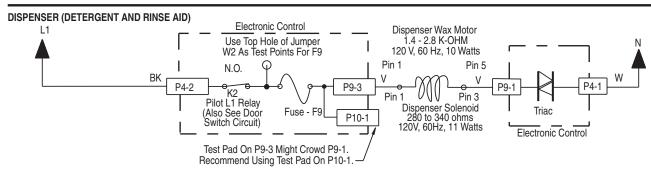
Float Switch

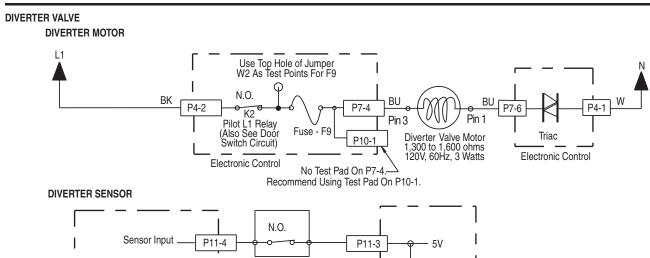


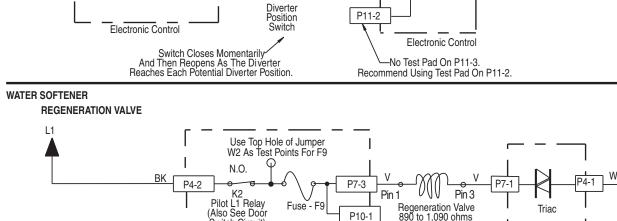
No Test Pad On P6-4.

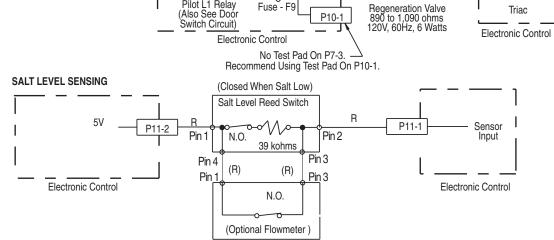
120V, 60Hz, 6 Watts Electronic Control

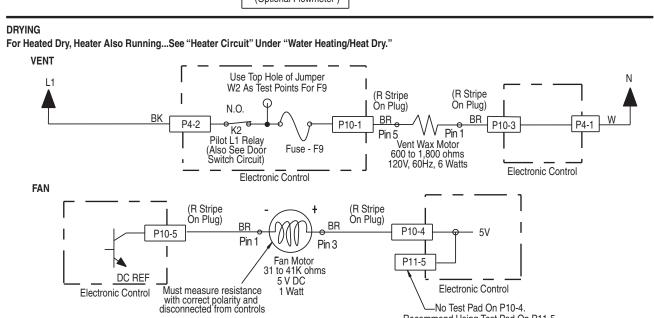
Electronic Control _____No Test Pad On P6-7.











CYCLE OPERATION

be a sensor calibration cycle.

HI TEMP - I	ES SHOWN DEY	/ - HI TEMP	- HEATED [DRY with door	open or clos	sed after starti	ng cycle. Pres	ss START/RE	SUME to adv	vance cycle i	nterval. Each	n sequence bo	ox below conta	ains multiple	intervals.	T	1 1		ı	Ι			DRY*23						P10-5		Pin 1	Pin 3	P10-4	— 5V		
ONE HOUR	DRAIN 0 MIN 50 MAX	FILL 1:02	HEATED WASH*2 3:00		FILL 0:59	HEATED WASH*2 3:00	DRAIN SEQUENCE 1:44	FILL 0:59	DETER- GENT DISPENSE	HEATED WASH*2 15:00	DRAIN SEQUENCE 1:44	FILL 0:54	HEATED WASH*2 3:00	DRAIN SEQUENCE 1:44	FILL 0:54	HEATED WASH*2 15:00	RINSE AID DISPENSE		RINSE AID DISPENSE		DRAIN SEQUENCE 1:39	1 14	13:00 PLASTIC TUB 28:30 STAIN- LESS TUB					Electroni	DC REF Mus with disco	st measure resist a correct polarity onnected from co	Fan Motor 31 to 41K ohr 5 V DC tance 1 Watt and ontrols	ms	Electr	onic Control t Pad On P10-4. sing Test Pad On F		
NORMAL	DRAIN 0 MIN 50 MAX	FILL 1:02	WASH 6:50	DETER- GENT DISPENSE	WASH 2:30	THERMAL HOLD*1,2 41°C (105°F) OR 40:00	WASH 25:00	DRAIN SEQUENCE 1:44 MAX	FILL 0:20	WASH 5:00-7:25	DRAIN SEQUENCE 0:40	FILL 0:20	WASH 5:00-7:25	DRAIN SEQUENCE 0:40	FILL 0:54	HEATED WASH*2 15:00	THERMAL HOLD*1,2 58.5 - 60°C (137 - 140°F) OR 45:00	RINSE AID DISPENSE	WASH 3:00	RINSE AID DISPENSE	HEATED WASH 3:00	DRAIN SEQUENCE 1:39	PAUSE PL 6 MIN	DRY* ²³ 26:00 .ASTIC TUB 0 STAIN- SS TUB									Recommend U	sing Test Pad On F	P11-5.	
POTS & PANS	DRAIN 0 MIN 50 MAX	FILL 1:02	WASH 3:40	DRAIN SEQUENCE 1:44	FILL 0:15	WASH SEQUENCE 0:54 - 1:39	DRAIN SEQUENCE 0:34	FILL 0:59	WASH 3:40	DRAIN SEQUENCE 1:44	FILL 0:15	WASH SEQUENCE 0:54-1:39	DRAIN SEQUENCE 0:34	FILL 0:59	WASH 3:40	DRAIN SEQUENCE 1:44		DETERGENT DISPENSE	WASH 2:30	THERMAL HOLD*1 54°C (130°F) OR 60:00	WASH 40:00	DRAIN SEQUENCE 1:44	FILL V 0:54	SEQ	RAIN UENCE 1:44	ILL WASH 54 6:00	DRAIN SEQUENC 1:44	E FILL 0:54	HEATED WASH 15:00	THERMAL HOLD*1 60°C (140°F) OR 45:00		WASH RIN 3:00 DISI	SEAID HEATE WASH 3:00		E PAUSE 6 MIN	DRY*23 26:00 PLASTIC TUI 45:30 STAIN- LESS TUB

Pilot L1 Relay Fuse - F9 P10-1

Electronic Control

Switch Circuit)

	H ERROR Co	CE 1-2-3-1-2-3 with	no more	than 1 second l	between key press		
models have replaced	the "Clean" LE	ED with "Completed."					
	DISPL	AY TEST - ALL LEDS ON			INTERVAL 25		
		•					
	ERRO	OR 1 - MOST RECENT					
Clean LED will FUNCTION coo CLEAN If no error, Clean LE stay on solid for 5 se	de Pause 2 D will seconds	Clean LED will flash PROBLEM code CLEAN If no error, Clean LED will stay on solid for 5 seconds	Pause 5 seconds	Repeat 3 times unless advanced by Start key	INTERVAL 24		
	'	•		•			
		ERROR 2					
FUNCTION cod CLEAN If no error, Clean LE	de Pause 2	Clean LED will flash PROBLEM code CLEAN If no error, Clean LED will	Pause 5 seconds	Repeat 3 times unless advanced by Start key	INTERVAL 23		
stay on solid for 5 se	econds	stay on solid for 5 seconds					
		ERROR 3					
以 Clean LED will	flach	✓ Clean LED will flash	1				
FUNCTION COU	de Pause 2	R PROBLEM code	Pause 5 seconds	Repeat 3 times unless advanced by Start key	INTERVAL 22		
If no error, Clean LE stay on solid for 5 se	ן ווועע ט.	stay on solid for 5 seconds		2, 5, 6, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,			
	1						
ERROR 4 - OLDEST							
Clean LED will FUNCTION cod CLEAN	le Pause 2	CLEAN Clean LED will flash CLEAN	Pause 5	Repeat 3 times unless advanced by Start key	INTERVAL 21		
If no error, Clean LE stay on solid for 5 se	D will seconds	If no error, Clean LED will stay on solid for 5 seconds	seconds	by Start Key			
,		•		•			
	10 seconds pa	ause Hi Temp LED will b	ne on				
		li Temp key to clear errors			INTERVAL 20		
		mp LED will blink twice					
	to indica	te errors have been cleared					
	Convi	ice Diagnostics Cycle					
		loads and checks sensors			INTERVALS 19-3		
	101113 01	Tiodus and checks sensors					
	SER\	/ICE CYCLE ERROR 1					
✓ Clean LED will	flash	↓ Clean LED will flash					
X FUNCTION cod	le Pause	ROBLEM code	Pause 5	Repeat 3 times unless advanced	INTERVAL 2		
CLEAN If no error, Clean LE	2 Seconds	CLEAN If no error, Clean LED will	seconds	1 1 0 1 1 1 1	INTERVAL Z		
stay on solid for 5 se	ן ווועע ט.	stay on solid for 5 seconds	1				
		•			I		
		/ICE CYCLE ERROR 2					
Clean LED will		Clean LED will flash PROBLEM code	Pause	Panest 2 times			
X FUNCTION cod CLEAN	le rause	CLEAN	5	Repeat 3 times unless advanced	INTERVAL 1		
If no error, Clean LE	D will seconds	If no error, Clean LED will	seconds	by Start key			
stay on solid for 5 se	econas	stay on solid for 5 seconds	1				

CUSTOMER DESCRIPTION	POTENTIAL CAUSES	CHECK	RELAT- ED ERROR
Clean LED Flashes	Control programmed with self diagnostics.	Read error code from the dishwasher and refer to "Service Error Codes" table. Run service diagnostics test	CODE(S
Won't Run or Power Up ("Dead" Keypad/	No power to unit or bad connection.	cycle to read full history of error codes. Check fuses, circuit breakers, and junction box connections.	
Console) No operation No keypad response No LEDs or display	Loose connections in dishwasher power up circuit or between keypad(s) and control.	Unplug dishwasher or disconnect power. Check continuity of power connections to control and connections between keypad(s) and control.	
,	Model has an LCD display and the control has been exchanged for one that is not compatible with the LCD display module.	Verify correct control is installed. Control should have no 4-pin user interface connector present at P1B if it is configured for an LCD model. Replace control.	
	Faulty user interface or control.	Replace UI/console and/or control.	
Won't Run and LED for Start/Resume Key is Blinking Slowly	By design, if the door is opened for more than 5 seconds or power is interrupted during a cycle, the user must press the Start/Resume key to resume operation.	Instruct customer. Refer to Use and Care Guide.	
	Start/Resume key not responding.	See "One or More Keys Won't Respond."	
	Control detected door switch problem.	Refer to "Service Error Codes" table.	5-1
Won't Run and LED Above Key is Flashing Rapidly and Continuously.	Stuck key or short circuit(s) in keypad, or in control's input lines that read the keys.	Refer to "Service Error Codes" table.	2-1
Won't Run and All LEDs On	Software or hardware incompatibility problem with control.	Refer to "Service Error Codes" table.	1-2
Won't Start and Start/Resume key LED Flashes 3 Times When Start/Resume Key is Pressed	Control looks for switch to open between cycles. Customer has not opened door since last cycle. Door switch contacts stuck closed.	Refer to "Service Error Codes" table.	5-2
Won't Accept Key Presses and Control Lock LED On	Control Lockout feature accidentally turned on by customer.	Instruct customer. Refer to Use and Care Guide (press and hold Control Lock key 5 seconds to turn On/Off).	
One or More Keys Won't Respond Or Unusual LED/	Stuck key or short circuit(s) in keypad or in control's input lines that read the keys.	Refer to "Service Error Codes" table.	2-1
Display/Key Behavior	Capacitive touch keypad adhesive coming loose from console.	Unplug dishwasher or disconnect power. Inspect keypad board for separation from console. Replace keypad and console if separation is seen.	
	Loose connections between keypad and control and/or bent or contaminated connector pins.	Unplug dishwasher or disconnect power. Inspect connections in user interface circuits. Reconnect loose connections. Replace part(s) if pins are damaged or contaminated.	
	Excessive condensation on user interface parts due to vent and/or fan problem	Check error history for 10-2 vent error or 10-3 fan error. Refer to "Service Error Codes" table.	10-2, 10-3
	Defective user interface.	Unplug dishwasher or disconnect power. Replace user interface console assembly.	
Dishwasher Beeps Constantly (for Models with Beepers)	User opened door during cycle and closed door without pressing Start/Resume to resume cycle.	Instruct customer. Dishwasher control is designed to beep if dishwasher is in "Cycle Interrupt" mode with door latched. Control will stop beeping when door is opened and/or Start/Resume key is pressed to resume cycle.	
	Normal beeper operation is excessive to customer.	Instruct customer how to turn beeper off and on. Press and hold Hi Temp key for 3 seconds (tone sounds).	
Long Cycles and/or Stuck in Certain Part of Cycle	As part of normal operation, the dishwasher pauses 2 or 3 times during the cycle for thermal holds and advances once temperature is met.	Instruct customer. Explain thermal holds and how the cycle pauses when they occur.	
	OWI soil sensor picking high soil cycle too often.	Run Service Diagnostics cycle to check if OWI is showing high soil with clear water. Check lens surface. Clean if needed. Unplug dishwasher or disconnect power. Replace OWI and run Diagnostics after installing new OWI to force calibration on next wash cycle.	
	Diverter problem prevented water from heating (plastic tub models only).	Refer to "Service Error Codes" table.	9-1, 9-2
	A water heating problem could cause long cycles but will typically cause a "water heating fault."	Refer to "Service Error Codes" table.	7-1
	Heater takes a long time to heat water with low voltage.	Check for at least 100 VAC at power source.	
	Incoming water too cold.	Refer to "Service Error Codes" table.	6-6
	Suds or air in pump requires repeated wash periods.	Refer to "Service Error Codes" table.	6-3
	Motor problems force cycle to start and stop repeatedly.	Refer to "Service Error Codes" table.	4-2
	OWI or NTC sensor problem.	Refer to "Service Error Codes" table.	3-1, 3-3

CUSTOMER DESCRIPTION	POTENTIAL CAUSES	CHECK	RELAT- ED ERROR CODE(S
LEDs or Displays Run for Short Time (but No	Unit is in Sales Demo mode.	Check operation of Cancel key. If no Cancel LED response to multiple Cancel key presses, the control is likely in Sales Demo Mode. Run Service Diagnostics	
Time (but No Loads Running) and then Shuts Off	Open F8 (Wash motor) fuse or	Cycle to clear Demo mode. Refer to Fuse Service and Resistance Checks on Page 1	
Can Start a Cycle,	F9 (Triac load fuse) on control disabled loads. Control canceled cycle due to	(next to Meter Check Diagram). Refer to "Service Error Codes" table.	4-1, 6-1,
but Only Runs for a Short Time - Cycle Does Not Complete (Clean LED or Completed May Blink)	error detected with wash motor, float switch, low water, or suds.	There is dervice that dodes table.	6-2, 6-3, 6-4, 8-3
Will Not Drain, or Excess Water Left in Dishwasher. NOTE: Check Error History. If No	Unit in Sales Demo mode. Drain loop check valve not sealing.	Run Service Diagnostics cycle to clear Demo mode. 1. Disconnect drain hose at plumbing connection. 2. Elevate hose above dishwasher and fill with water. If water flows into dishwasher, replace entire drain loop (install as high as possible).	
Error History. If No Error Codes for Electrical Problems, Problem is Mechanical. Do Not Replace Control.	Customer misunderstands water level after drain. Draining problem.	Instruct customer. Sump will normally have about 1" (2.5 cm) of water remaining in filter cup hole after cycle. Refer to "Service Error Codes" table.	8-1, 8-2
Detergent Not Dispensing or Detergent Left in	Item in lower rack blocked lid or blocked spray of water to dispenser.	Instruct customer on proper dish loading.	
Dispenser NOTE: Check Error History. If No Error Codes	Mechanical binding of dispenser lid.	Unplug dishwasher or disconnect power. Check/replace dispenser.	
for Electrical Problems, Problem is Mechanical.	Lid latch binding due to excess detergent in mechanism.	Instruct customer on proper dispenser filling.	10.1
Do Not Replace Control.	Dispenser electrical problem. Control canceled cycle before dispensing due to error defected with wash motor.	Refer to "Service Error Codes" table. Refer to "Service Error Codes" table.	10-1 4-3
Poor Wash	detected with wash motor. Cycle selection of customer not appropriate for dish load.	Instruct customer on cycle selection. Recommend "High Temp" option for wash performance boost.	
	Plugged or damaged screens.	Inspect following 3 screens. Filter cup coarse screen	
		■ Filter cup fine screen ■ Sump fine screen	
	Spray arms not rotating or plugged.	Check arm rotation. If arms are blocked by dish item, instruct customer. Also check for correct upper spray arm alignment with docking station located on feed tube at back tub wall. Check nozzles. If plugged, clean nozzles and confirm filters installed properly.	
	Poor wash due to draining, dispensing, and/or temperature problem.	See "Will Not Drain or Excess Water Left in Unit." or "Detergent Not Dispensing or Detergent Left in Dispenser," or details on temperature sensing in "Long Cycles and/or Stuck in Certain Part Of Cycle."	
	Control canceled cycle due to error detected with wash motor.	Refer to "Service Error Codes" table.	4-3
	Soil sensor problem.	Refer to "Service Error Codes" table. NOTE: Even if no error code recorded, confirm OWI passes all OWI checks in Service Diagnostics cycle and see checks for Error 3-3.	3-2, 3-3
	Diverter problem. Diverter disc missing.	Refer to "Service Error Codes" table. Remove outlet cover and inspect for red plastic disc through holes in outlet. Install new disc if missing.	9-1, 9-2
	Heating problem.	Refer to "Service Error Codes" table.	7-1
Film or Spoto on	Softener problem (on some models).	Refer to "Service Error Codes" table.	6-8
Film or Spots on Glasses and/or Dishes	Customer not using rinse aid and/or heated dry. Rinse aid dispenser problem.	Check rinse aid gauge level on dispenser; Instruct customer how to fill and monitor, add or use rinse aid. Refer to "Service Error Codes" table.	10-1
	Hard water leaving film on dishes.	Check water hardness. If hard, instruct customer to use maximum detergent or try pouring ¼ cup (60 mL) of Glass Magic into bottom of dishwasher. Also recommend the 1 HR Wash cycle.	10 1
		For models with water softener: Check for "Add Salt" LED at the end of cycle; If on, add salt and Instruct customer.	
	Determent corresponder or over	For models with water softener: Regen valve electrical problem. Refer to "Service Error Codes" table.	6-8
	Detergent carryover or over sudsing.	Check water hardness. If below 10 grains, then instruct customer to use less detergent and recommend the 1 HR Wash cycle.	6-3
	Etching of glass from too much detergent at too high of temperature.	Check water hardness. If below 10 grains, then instruct customer to use less detergent and recommend the 1 HR Wash cycle.	
	Diverter problems. Drain loop check valve not	Refer to "Service Error Codes" table. 1. Disconnect drain hose at plumbing connection.	9-1, 9-2
	sealing.	Elevate hose above dishwasher and fill with water. If water flows into dishwasher, replace entire drain loop (install as high as possible and attach to underside of countertop if possible).	
Poor Dry	Customer not using rinse aid or dispenser is empty.	Check rinse aid gauge level on dispenser. Instruct customer how to fill and monitor, add or use rinse aid.	
	Customer not using Heated Dry option.	Recommend the use of Heated Dry or Smart Dry to customer.	
	Rinse Aid dispenser problem. Vent stuck closed due to pilot	Refer to "Service Error Codes" table. Refer to "Service Error Codes" table.	10-1
	relay stuck on. Diverter problem prevented water from heating in final rinse (plastic tub models only).	Refer to "Service Error Codes" table.	9-1, 9-2
	Fan problem (on models with fan).	Refer to "Service Error Codes" table.	10-3
	Control canceled cycle due to error detected with wash motor.	Refer to "Service Error Codes" table.	4-3
Sanitized LED	Heating problem. Door opened during final rinse	Refer to "Service Error Codes" table. Instruct customer.	7-1
Blinks or Incomplete Sanitization Message at the	or dry. Incoming water too cold.	Refer to "Service Error Codes" table.	6-6
Message at the End of a Cycle (Control Could Not Confirm	Heating problem. Thermistor/OWI sensor problem.	Refer to "Service Error Codes" table. Refer to "Service Error Codes" table.	7-1 3-1, 3-2
Sanitization Achieved)	Intermittent door switch/ latch connection.	See the same checks as for 5-1 Error. Refer to "Service Error Codes" table.	,
	Diverter problem prevented water from heating in final rinse (plastic tub models only).	Refer to "Service Error Codes" table.	9-1, 9-2
	Line voltage too low to heat fast enough.	Check power source. Confirm at least 100 VAC.	
	Air pressure surges in dishwasher due to washing with high suds causes brief opening of door switch contacts during final rinse.	Refer to "Service Error Codes" table.	6-3
Melted Dishware and/or Spray Arm and/or Dishwasher	Customer uses non-dishwasher safe dishes or loads plastic dishes directly over heater.	Instruct customer.	
Always Hot	Temperature sensing problem. Water heating problem. Heater	Refer to "Service Error Codes" table. Refer to "Service Error Codes" table.	3-1 7-2
	stuck on. Water heater displaced from mounting clip and/or pulled off center.	Inspect heater. Adjust back into position as needed.	1-2
Noisy Operation	Spray arm stalled or blocked and spraying on the door.	 Instruct customer if blocked. Check spray arm rotation and inspect for plugged nozzles. If plugged, clean nozzles and confirm filters installed properly. 	
	Diverter problem.	Refer to "Service Error Codes" table.	9-1, 9-2, 9-3
	Motor problems force cycle to start and stop repeatedly.	Refer to "Service Error Codes" table.	4-2
	No or low water. Drains too long.	Refer to "Service Error Codes" table. 1. Long drain due to OWI sensor problem - Refer to	6-1, 6-2, 6-3, 6-4
		Long drain due to OWI sensor problem - Refer to "Service Error Codes" table for 3-3. Slow drain problem - Refer to "Service Error Codes" table for 8-1.	3-3, 8-1
		Refer to "Service Error Codes" table.	10-2

CUSTO DESCRIF		POTENTIAL CAUSES		CHECK	RELAT- ED ERROR CODE(S)					
Noisy Operation (cont.)		Fan runs (makes noise) after cycle completed (on models with fan).	off if	Dishwasher is designed to keep fan running after cycle to avoid moisture buildup in dishwasher. Fan will turn off if door is opened longer than 5 seconds. Instruct customer.						
		Excessive fan noise due to faulty fan.	cycl	check fan operation during Service Diagnostics test e. Inplug dishwasher or disconnect power. Ieplace fan if fan does not spin freely.						
eaks or D	rips on Floor	Vent wax motor problem.	_	er to "Service Error Codes" table.	10-2					
	-	Fan problem (on models with fan). Too many suds.	_	er to "Service Error Codes" table. er to "Service Error Codes" table.	10-3 6-3, 6-4					
		Leaking dishwasher	+	ck door/tub gasket and all water connections under washer. Refer to "Service Error Codes" table.	6-1, 6-3					
		Unit not level (leaning forward) and water surges over front lip during cycle.	Che	eck error history for Float Error 6-4. Error 6-4 is likely ccur if unit is significantly out of level and leaning ard. Refer to "Service Error Codes" table.	6-4					
		Air pressure surge when door is opened and immediately closed while dishwasher is hot can force droplets out of the vent duct.	Instr	ruct customer to leave door open a few minutes ore re-closing, if opened while dishwasher is hot.						
		l l	r/Air in	Pump" problem. WHAT TO CHECK	i					
1-	1- Pilot Stuck On	Control detected K2 pilot relay closed.	stuck	Unplug dishwasher or disconnect power. Check all loads on k2 pilot relay for shorts. Replace control and all shorted components.						
CON- TROL	2- Contro Softwa Issue	re components inside micro.	y on Itware	Unplug dishwasher or disconnect power. Replace control board.						
2- USER INTER- FACE	1- Stuck Key		omer is ck, the d an y, but	Check responsiveness of each key. 1. If some keys do not respond, then: Unplug dishwasher or disconnect power. Disassemble door and disconnect keypad connection from control or LCD display module. Verify all other connections to control are made. Reassemble door but do not close door.						
	1- Open	Open connector or compone Temperature Sensing Circuit. Open or faulty temperature sensor in on control.	ensor.	Cycle. 2. Unplug dishwasher or disconnect power. 3. Check all components and connections in the Temperature Sensing Circuit with meter. Fix/replace open connection/part.						
3- IERMIS-	2- Shorte	 Incoming water temperature 75°C (167°F). Shorted connection or compin Temperature Sensing Circuit Shorted or faulty temperature sensor. Faulty temperature sensor in on control. 	onent t. e	Check Incoming water temperature. Check operation of temperature sensor in Servic cycle. Unplug dishwasher or disconnect power. Check all components and connections in the Te Sensing Circuit with meter. Fix/replace shorted wire OWI Sensor strip circuit.)	mperature					
TOR/ OWI	3- Failec Calibra tion		aling.	Run Service Diagnostics to check OWI operation should see low soil with clear water. Check OWI lens surface. Clean if needed. Unplug dishwasher or disconnect power. Check all connections in Soil Sensing Circuit with Fix/replace bad connection/part. NOTE: Run Diagnostics after replacing new OWI to calibration on next wash cycle. Dirty water backs into dishwasher after draining. Disconnect drain hose at plumbing connection. Elevate hose above dishwasher and fill with water.	n meter. o force					
		Loose connection in Motor Circ and/or faulty wash motor.	cuit,	flows into dishwasher, replace entire drain loop (ins as possible and attach to underside of countertop if 1. Check operation of wash motor during diagnostic 2. Unplug dishwasher or disconnect power. 3. Check resistances of connections in the wash circles.	tall as high possible).					
4- WASH MOTOR	3- Motor N Runnir	Not	it	Check for loose connections or replace wash mo Unplug dishwasher or disconnect power. If meter check of wash motor circuit shows norm.	al resistance					
		Door was not latched within 3 seconds of pressing the Star	t/	and still not getting power to the wash motor, then r control. Instruct customer. Refer to Use and Care Guide.	eplace					
	1- Door		not	1. Check strike plate and door closure force. Verify seated properly. Check for interference between dis door. Try bending strike plate down for better engage. Unplug dishwasher or disconnect power. 3. Check door switch contacts and all connections in switch circuit with meter while opening and closing the lf high resistance with door closed, check/fix loose.	rement					
5- DOOR SWITCH	Stuck Open	by high door closure force, keeping strike pla from fully seating). Faulty door switch (high resistance).	ate	 If high resistance with door closed, check/fix loose connections. Measure resistance of door switch contacts while mechanical operation of latch assembly. Check for plastic pieces on latch assembly. Replace latch if fa 	e checking broken					
		Faulty control.		With door open, verify 13 VDC present across PS 2. If no voltage present, unplug dishwasher or discopower and replace control.	9-5 and P9-6 onnect					
	2- Door Stuck Close	Switch to open between cycles	or	Open and close door and then press Start/Result works now, instruct customer to open door between 2. Unplug dishwasher or disconnect power. Measure resistance of door switch contacts while mechanical operation of latch assembly.	me key. If n cycles.					
		No water to dishwasher. Bowls or pots loaded or flipped down and captured wash water		Verify water supply is turned on and supply line ade Instruct customer on loading. Refer to Use and Car	<u>'</u>					
	1- Low/N Wate (Mechanical Proble	r a-	and/or	Check for water siphoning out of unit: 1. Allow dishwasher to complete normal fill. 2. Drain for 5-10 seconds by pressing CANCEL/DRAIN. 3. Open door and confirm water does not siphon out of unit. If it does, confirm drain loop is attached to side of dishwasher and drain hose is connected to a drain at least 20" (50.8 cm) of the floor.						
	Juliel	Water leaking from dishwasher	r.	Check for leaks under dishwasher.						
6- NLET		Fill valve or water line plugged debris.	with	Turn off water supply to dishwasher, disconnect wa to inlet valve, inspect/clean the inlet screen of fill val reconnect water.	ter line lve, and					
VATER	1- Low/N Water (Mech	r position and or distribution floor		Check other error codes to see if 6-4 also occurred Error Code below. Check other error codes to see if 6-2 also occurred						
	nical Problei (cont.	m)	/P	Error Code below. Unplug dishwasher or disconnect power and check						
	2- Fill Val	circuit, and/or open fill valve so	lenoid.	of fill valve solenoid and all connections in the Fill C meter. Fix/replace open connection/part.	ircuit with					
	(Electric	cal Open luse on control to hii vaiv	e.	Refer to Fuse Service and Resistance Checks on F to Meter Check diagram).	age 1 (next					
	1	Faulty fill valve drive circuit on t	the	Unplug dishwasher or disconnect power and replace	ce control.					

Г- R	FUNC- TION CODE	PROB- LEM CODE	CAUSES	WHAT TO CHECK
S)			Too many suds.	Allow unit to fill and wash for 1 minute. Open door and check for excessive sudsing. Confirm using proper dishwasher detergent, not hand detergent. Check for excessive rinse aid leakage.
		3- Suds/Air in Pump	Bowls or pots loaded or flipped upside down and captured wash water. Water leaking from dishwasher	Check for excessive rinse aid leakage. Instruct customer on loading. Refer to Use and Care Guide. Check for leaks under dishwasher.
			Water leaking from dishwasher. Diverter disk in sump is missing.	Remove lower spray arm, turbo zone assembly, rear feedtube and outlet cover and verify whether the red diverter disk is installed.
			Overfill switch stuck in "Overfill" position and/or dishwasher not level.	Remove any items stuck under float. Verify that the float moves freely and you hear the "click" of the switch contacts. Check levelness of dishwasher.
			Drain hose check valve not sealing.	Water backs into dishwasher after draining and elevates water level. 1. Disconnect drain hose at plumbing connection. 2. Elevate hose above dishwasher and fill with water. If water flows into dishwasher, replace entire drain loop (install as high as possible).
		4- Float Switch Open	Fill valve Triac on control shorted.	If still filling while door is open, fill valve is mechanically stuck open (see below). If no fill with the door open, check operation in Service Diagnostics Test Cycle. Advance Service Cycle until detergent dispenser opens. Fill valve should be off. Listen to see if dishwasher is still filling. If still filling, then unplug dishwasher or disconnect power and replace control.
ī			Fill valve mechanically stuck open. Too many suds.	Confirm dishwasher fills while the door is open. If yes, then unplug dishwasher or disconnect power, turn off water to dishwasher, replace fill valve, and turn water back on. 1. Allow unit to fill and wash for 1 minute. Open door and
			loo many suds.	Allow unit to fill and wash for 1 minute. Open door and check for excessive sudsing. Instruct customer if using improper dishwasher detergent (hand detergent). Disconnect power and replace dispenser if see excessive rinse aid leakage.
			Open fuse F9 to fill valve and other triac loads	Refer to Fuse Service and Resistance Checks on Page 1 (next to Meter Check diagram).
		6- Cool Water	Incoming water under 29°C (84°F).	Be sure dishwasher is connected to the hot water supply. Confirm temperature at sink (recommend 49°C/120°F). Instruct customer to run water at sink before running dishwasher. Unplug dishwasher or disconnect power and check all connections and measure resistance in "Temperature Sensing Circuit." Replace OWI if resistance is high.
e		7- Flow Meter	Disconnected or damaged flowmeter	1. Disconnect power or unplug unit. 2. Check connections at salt level sensor and at flowmeter. 3. Use meter to check for flowmeter switch closed. Use meter to check salt level sensor. Switch is open when salt reservoir is filled and closed when salt reservoir is low/empty. 4. Disconnect flowmeter and leave salt sensor connected. Apply a magnet to side of salt tank near the sensor connection to force the switch closed. 5. With magnet in place, run the complete service diagnostics cycle. If the sanitized LED turns on in interval 3, the control is good; replace the flowmeter assembly. If the sanitized LED does not turn on, the control input has failed; replace the control.
tic		8- Regen Valve Electrical Problem	Loose connection in Regen valve circuit, and/or open Regen valve solenoid.	Unplug dishwasher or disconnect power and check resistances of Regen valve solenoid and all connections in the Regeneration Valve Circuit. Fix/replace open connection/part.
			Open fuse on control to Regen valve. Faulty Regen valve drive circuit on	Refer to Fuse Service and Resistance Checks on Page 1 (next to Meter Check diagram). Unplug dishwasher or disconnect power and replace control.
tic			the control. Control is programmed to disable heater, but continue running cycles if it detects a water heating problem.	Running diagnostics clears the control, allows the heater to turn on again. Water heating problem must be corrected, or the control will disable the heater again. See heater circuit
e	7- HEATING	1- No Heat	Heater Circuit problem: Open in heater. Open connection or component in Heater Circuit. Faulty Heater Drive Circuit on the	problem below. 1. Unplug dishwasher or disconnect power. 2. Measure resistance of heater and all components and connections in Water Heating Circuit/Heat Dry Circuit. Fix/replace open connection/part. Unplug dishwasher or disconnect power and replace control.
		2- Heater Stuck On	control. Faulty Heater Drive Circuit on the control.	Unplug dishwasher or disconnect power and replace control. Inspect heater and connections for overheating/shorting. If
		Stuck On	Obstructed drain hose or path.	evidence of overheating or shorts exists, replace. Unplug dishwasher or disconnect power. Check for blockages from sump check valve to customer's plumbing. Potential items: plugged garbage disposal or plug not
		Slow Drain	Drain pump impeller fractured.	knocked out, drain loop check valve stuck and/or plugged hoses. 1. Unplug dishwasher or disconnect power. 2. Remove drain pump and check impeller (normally there is some uneven resistance). If it is stripped, replace drain pump.
æ	8- DRAIN- ING	2- Drain	Loose connection in drain motor circuit, and/or open drain motor winding.	Unplug dishwasher or disconnect power and check resistances of drain motor winding and all connections in the drain motor circuit. Fix/replace open connection/part.
		Motor Electrical Problem	Open fuse on control to drain motor.	Refer to Fuse Service and Resistance Checks on Page 1 (next to Meter Check diagram).
s id			Faulty drain motor drive circuit on the control.	Unplug dishwasher or disconnect power and replace control.
h.		3- Drain Stuck On	Faulty drain motor drive circuit on the control. Corroded or loose connection in	Unplug dishwasher or disconnect power and replace control. Inspect drain motor and connections for overheating/shorting. If evidence of overheating/shorting exists, replace. Check operation in Service Diagnostics Cycle. Listen for
-6		1- Can't	diverter sensor/motor circuit, or open/shorted sensor/motor.	CAM clicking as it rotates or inspect shaft with mirror to see if rotating during diverter interval. If rotating, then likely the sensor circuit. 2. Unplug dishwasher and parts disconnect power and check connections in Diverter Sensor and Motor Circuit with meter. Fix/replace open connections/parts. 3. Inspect diverter sensor for evidence of water or contaminants. If yes, replace.
	9- DIVERT-	Find Position	Mechanical binding of diverter shaft/disc.	Check operation of diverter motor during diagnostics. Inspect diverter shaft with mirror. If motor appears to be on (vibrates, hums), but you see limited rotation, then replace diverter and seal.
	ER		Open fuse on control to diverter motor. Faulty Diverter Motor Drive Circuit on the control.	Refer to Fuse Service and Resistance Checks on Page 1 (next to Meter Check diagram). Unplug dishwasher or disconnect power and replace control.
-		2- Stuck On	Faulty Diverter Drive Circuit on the control.	Unplug dishwasher or disconnect power and replace control. Inspect diverter motor and connections for overheating/shorting. If evidence of overheating/shorting exists, replace.
off		3- Disk Missing	Control detected diverter disk in sump is missing.	Remove lower spray arm, turbo zone assembly, rear feed tube and outlet cover; and verify the round diverter disk is installed.
		1- Dispenser	Loose connection in dispenser circuit and/or open dispenser solenoid.	Unplug dishwasher or disconnect power and check resistances of dispenser solenoid and all connections in the dispenser circuit. Fix/replace open connection/part.
		Electrical Problem	Open fuse on control to dispenser. Faulty dispenser drive circuit on the control.	Refer to Fuse Service and Resistance Checks on Page 1 (next to Meter Check diagram). Unplug dishwasher or disconnect power and replace control.
+	10- OTHER	2- Vent Wax	Loose connection in vent circuit and/or open vent wax motor.	Unplug dishwasher or disconnect power and check resistances of vent wax motor and all connections in the vent circuit. Fix/replace open connection/part.
es		Motor Electrical Problem	Open fuse on control to vent. Faulty vent drive circuit on the control.	Refer to Fuse Service and Resistance Checks on Page 1 (next to Meter Check diagram). Unplug dishwasher or disconnect power and replace control.
ext		3- Drying Fan Error	Loose connection in fan circuit, and/or open fan motor. Faulty fan drive circuit on the control.	Unplug dishwasher or disconnect power and check resistances of fan motor and all connections in the fan circuit. Fix/replace open connections or fan. Unplug dishwasher or disconnect power and replace control.
_				