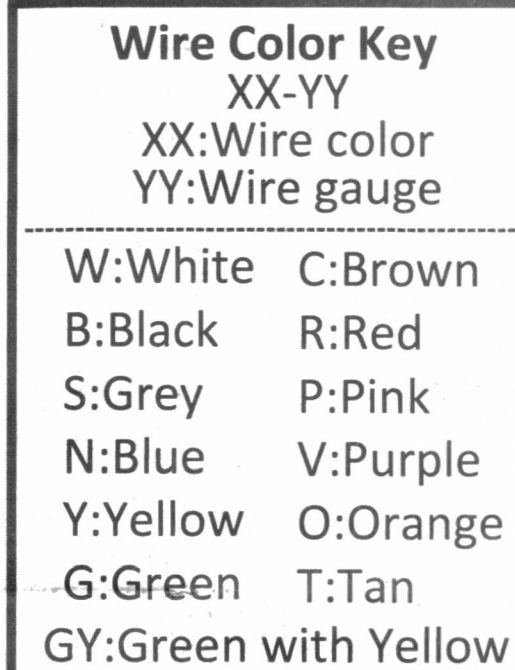


Fault Code (Dec)	Name	Description	Repair Action
1	Lock Monitor	Lid lock didn't occur or lid lock signal not seen by control due to lack of connection.	<ul style="list-style-type: none"> <li>Check the resistance of the lid lock assembly.</li> <li>Check the harness for open wires and/or connectors on the board to the lock assembly.</li> <li>If lock assembly and harness prove good at the service, replace the lid lock assembly.</li> </ul>
2	Lid Monitor	Control did not get lid close signal from switch while motor was moving. Could mean the switch didn't close or control didn't get the signal because of lack of connection.	<ul style="list-style-type: none"> <li>Replace lid lock if this happens frequently.</li> </ul>
3	Locked Rotor Monitor	For 5 straight seconds control not seeing signal changes indicating the motor is turning while trying to spin. Could mean the motor isn't rotating or Control didn't get the signal because of lack of connection.	<ul style="list-style-type: none"> <li>Physically check the washer for anything preventing motor movement.</li> <li>Check harness and harness connectors from throl to the motor.</li> <li>Verify hall sensor is connected to the main hamut washer in Service Mode and run TEST 13. Spin Test. If hall sensor is bad or disconnected, the bowl will start to spin normally and then stop spinning after approximately 5 seconds. Ensure hall sensor properly connected and positioned on the motor. If basket spins for approximately 15 seconds, the error is most likely NOT the cause.</li> <li>TCD should reset in approximately 45 minutes. If tripped, make sure motor moves freely and that nothing is jamming it. Replace motor if it does not.</li> </ul>
4	Reset Monitor	Control is resetting the software by itself due to criteria it believes could resolve itself upon reset.	<ul style="list-style-type: none"> <li>Check for loose connections at the control. Recal if any.</li> <li>Check for recommended house line voltage to throl.</li> </ul>
5	Mode Shifter	Control didn't see the transition from Agitate to Spin or vice-versa in the time required. Could mean the shift didn't occur or Control didn't get the signal because of lack of connection.	<ul style="list-style-type: none"> <li>Check mode shifter coupler for damage and the throl to slide in and out freely.</li> <li>Using an ohm meter, check to ensure mode switch is in the open position.</li> <li>Check resistance of mode shifter motor (approx 5.7K ohms).</li> <li>Check for 120VAC to the mode shifter motor at throl J512 connector.</li> <li>If voltage is present, replace the mode shifter.</li> </ul>
6	Critical Flood Level by Pressure. Pressure level exceeds 17.5" above pressure port.	Control received an extended period of pressure readings that is nearing over-flow levels. Pressure 17.5". Voltage Output must be present. Could mean water did get that high due to briney stuck water valve. Voltage output of sensor too high for actual water level because of sensor or water in pressure tube increasing pressure.	<ul style="list-style-type: none"> <li>Check pressure tube for pinches where it goes to top cover grommet.</li> <li>Check pressure tube for trapped water.</li> <li>Check water valve operation and for any leaking valves.</li> <li>Check the output voltage from the pressure sensor ensure it matches the water level in the basket according to the pressure sensor chart.</li> <li>Ensure pressure chamber port is free from obstructions using drill bit size 1/16" by hand so as not to drill through the inner wall.</li> </ul>
7	Max Fill Pressure. Pressure exceeds 16.5" above pressure port.	Main motor received and extended period of pressure readings that is greater than maximum allowable fill volume. Pressure 16.5". Voltage output must be present. Could mean water did get that high due to briney stuck water valve. Voltage output of Sensor too high for actual water level because of sensor or water in pressure tube increasing pressure. This could happen during normal operation.	<ul style="list-style-type: none"> <li>This can happen if a large wet load is placed in the sensor.</li> <li>Check pressure tube for pinches where it goes to top cover grommet.</li> <li>Check pressure tube for trapped water.</li> <li>Check for any leaking water valves.</li> <li>Check the output voltage from the pressure sensor ensure it matches the water level in the basket according to the pressure sensor chart.</li> </ul>
8	Pressure Sensor Loss	This determines if there has been a too great of a difference in the pressure sensor reading and the expected pressure sensor reading for the amount of water the control calculated it has put in. It assumes there is a pressure leak, a clog in the pressure hose/ system delaying the increase in pressure, or a significant amount water leaking out.	<ul style="list-style-type: none"> <li>Check to make sure house water supply valves are not on.</li> <li>Check water valve operation.</li> <li>Check pressure tube for pinches where it goes to top cover grommet.</li> <li>Check the output voltage from the pressure sensor ensure it matches the water level in the basket according to the pressure sensor chart.</li> <li>Check pressure tube for trapped water.</li> <li>Ensure pressure chamber port is free from obstructions using drill bit size 1/16" by hand so as not to drill through the inner wall.</li> </ul>
9	Lid Switch Redundancy	Test attempted for a 4th cycle when the previous 3 cycles have completed but backup motor seeing lid open. Could mean the switches didn't occur or backup processor didn't get the signal because of lack of connection. See Fault #2 as well.	<ul style="list-style-type: none"> <li>Open and close the lid to clear the error.</li> <li>Check harness and connectors that go to the lid.</li> <li>If the error will not clear, replace the lid switch.</li> </ul>
10	Mode Shift Feedback Monitor	Signal feedback state from the mode shifter (agitator or spin) and the state received by the control are not the same and the basket or agitator is rotating faster than 3.4 RPM. Agitate mode feedback signal is no voltage.	<ul style="list-style-type: none"> <li>Check mode shifter coupler for damage and the throl to slide in and out freely.</li> <li>Using ohm meter to ensure harness shows continuity to the mode shifter from the control.</li> <li>Check resistance of mode shifter motor (approx 5.7K ohms).</li> <li>Check for 120VAC to the mode shifter motor at throl J512 connector.</li> <li>If voltage is present and no operation, replace the mode shifter.</li> </ul>
11	Clock Monitor	1. AC power line frequency is not 60Hz. 2. Software failure.	<ul style="list-style-type: none"> <li>1. Check the frequency of the AC power output. If more than a few Hz off of 60Hz, notify utility company.</li> <li>2. If line frequency is good, update the software.</li> </ul>
12	Redundant Flood Condition	Backup processor received an extended period of pressure readings that is nearing over-flow levels. Pressure 18.0". Voltage output must be present. Could mean water did get that high due to briney stuck water valve. Voltage output of sensor too high for actual water level because of sensor or water in pressure tube increasing pressure.	<ul style="list-style-type: none"> <li>Check pressure tube for trapped water.</li> <li>Check each valves operation. (Replace water valve and send back to GE Appliances.)</li> <li>Check the output voltage from the pressure sensor ensure it matches the water level in the basket according to the pressure sensor chart.</li> <li>Check pressure tube for pinches where it goes to top cover grommet.</li> <li>Ensure pressure chamber port is free from obstructions using drill bit size 1/16" by hand so as not to drill through the inner wall.</li> </ul>



		<ul style="list-style-type: none"> <li>• Check wiring to valve operation.</li> <li>• Check pressure tube for pinches where it goes through top cover grommet.</li> <li>• Check pressure sensor to ensure it matches the water level in the basket according to pressure sensor chart.</li> <li>• Check pressure tube for trapped water.</li> <li>• Ensure pressure chamber port is free from obstruction using drill bit size 1/16" by hand so as not to drill through the inner wall.</li> </ul>
17	Dry Load Sense Timeout	<p>Dry load sense times out and moves to the next part of the cycle selected. This occurs when the washer is not reaching the target speed within a defined time limit for the load type selected.</p> <ol style="list-style-type: none"> <li>1. Check for lock or excessive friction. Basket should spin freely. If not, find source of friction and remove it.</li> </ol>
18	Drain Pump Clearing algorithm failed	<p>While draining the pressure sensor value for water level did not indicate the washer was empty before the Max Continuous Drain ON time was reached.</p> <ul style="list-style-type: none"> <li>• This fault is intermittent and will be seen with fault 16 when drain pump clearing algorithm failed to remove the blockage at the rest of the water in the tub. Also this fault may occur due to possible issue with the pressure sensor system. If drain pump system is working correctly, refer to the last four steps of fault 8.</li> <li>• Check the drain pump for blockage.</li> <li>• Check Owner's Manual &amp; Installation Instructions for proper standpipe height.</li> <li>• Check resistance of the pump (13.5 ohms) from J512 connector on the control.</li> <li>• If open circuit, check wiring harness to the pump and pump motor.</li> <li>• Check for AC to the drain pump.</li> <li>• If voltage is present and pump does not operate, replace pump.</li> <li>• Check wiring to valve operation.</li> <li>• Check pressure tube for pinches where it goes through top cover grommet.</li> <li>• Check the output voltage from the pressure sensor to ensure it matches the water level in the basket according to pressure sensor chart.</li> <li>• Check pressure tube for trapped water.</li> <li>• Ensure pressure chamber port is free from obstruction using drill bit size 1/16" by hand so as not to drill through the inner wall.</li> </ul>
19	UI State Timeout	<p>This will happen if a cycle is paused or canceled and water is left in the tub for more than 24 hours.</p> <ul style="list-style-type: none"> <li>• This is normal operation. This will happen if the consumer and/or control switched cycle to a paused state.</li> <li>• Check wiring to valve operation.</li> <li>• Check pressure tube for pinches where it goes through top cover grommet.</li> <li>• Check the output voltage from the pressure sensor to ensure it matches the water level in the basket according to pressure sensor chart.</li> <li>• Check pressure tube for trapped water.</li> <li>• Ensure pressure chamber port is free from obstruction using drill bit size 1/16" by hand so as not to drill through the inner wall.</li> </ul>

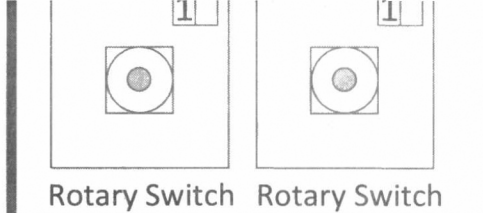


**MODELS 220 & 210 ONLY**  
**J615**

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24	Lid Logic Failure	Lid switch failure. This fault is set if the system <b>presses the lid to be both OPEN and LOCKED for five consecutive seconds</b> .	<ol style="list-style-type: none"> <li>1. Check harness and connections from the control to the lid lock assembly for damage and continuity.</li> <li>2. Run a spin cycle. Pull up on the lid during spin for more than 5 seconds and see if this fault occurs. Replace lid lock assembly.</li> </ol>
25	Pressure Sensor Dropout	<ol style="list-style-type: none"> <li>1. Disconnect pressure hose</li> <li>2. Pressure tube is pinched or kinked in it.</li> <li>3. Pressure sensor failure.</li> </ol>	<ul style="list-style-type: none"> <li>• Check pressure tube for pinches where it goes through top cover grommet.</li> <li>• Check pressure tube for trapped water.</li> <li>• Check water valve operation and for any leaking water valves.</li> <li>• Check home water pressure.</li> <li>• Check the output voltage from the pressure sensor to ensure it matches the water level in the basket according to the pressure sensor chart.</li> <li>• Ensure pressure chamber port is free from obstruction using drill bit size 1/16" by hand so as not to drill through the inner wall.</li> </ul>
26	Out of Balance (OOB) Ended Final Spin	Washer could not redistribute to eliminate OOB condition to achieve final large spin speed.	<ul style="list-style-type: none"> <li>• Manually rebalance the load, check basket for damage, and run a <b>Drain &amp; Spin</b> cycle.</li> <li>• If washer spins properly, talk with consumer about loading.</li> <li>• If the washer will not spin properly, check the balance ring, the rod and spring assemblies, the speed sensor, and the speed sensor harness for proper operation.</li> <li>• Check if the unit is stable and leveled.</li> </ul>
27	Water Accessibility	This will happen if water is in the tub with the lid open for more than 15 ms.	<ul style="list-style-type: none"> <li>• Check the output voltage from the pressure sensor to ensure it matches the water level in the basket according to the pressure sensor chart.</li> <li>• This is normal operation. This will happen if the consumer and/or control switched cycle to a paused state.</li> </ul>
28	Options Knobs Feedback Invalid	This fault is set if a cycle is running and an invalid knob position is detected.	<ul style="list-style-type: none"> <li>• Make sure knobs are in a valid position.</li> <li>• Make sure knob harness is fully seated and not routed under knob assembly.</li> </ul>
29	Suds Lock Abatement Failure	Cycle has terminated due to many suds.	<ul style="list-style-type: none"> <li>• Ensure basket is able to rotate freely.</li> <li>• Ensure consumer is using the proper amount of HE detergent.</li> <li>• Ensure speed sensor is plugged in and correctly seated to the motor.</li> </ul>
30	Stuck Button Fault	Buttons not operating when pressed.	<ul style="list-style-type: none"> <li>• Check buttons and adjust.</li> <li>• Check button tree.</li> <li>• Check the clearance between the button and the backslash plate.</li> </ul>
31	Out of Balance (OOB) Feedback In Final Spin	This fault is set if machine is able to reach terminal speed during final spin due to OOB.	<ul style="list-style-type: none"> <li>• Manually rebalance the load, check basket for damage, and run a <b>Drain &amp; Spin</b> cycle.</li> <li>• If washer spins properly, talk with consumer about loading.</li> <li>• If the washer will not spin properly, check the balance ring, the rod and spring assemblies, the speed sensor, and the speed sensor harness for proper operation.</li> <li>• Check if the unit is stable and leveled.</li> </ul>
32	Critical Lid Lock Failure: Can't Unlock Lid	This fault is set when the software has tried multiple times to unlock the lock through success.	<ul style="list-style-type: none"> <li>• Check to ensure lid lock harness is correctly seated on the lid lock and control board.</li> </ul>

Tub Water Level Pressure Sensor			
MODELS 200-491 ONLY		MODELS 680 ONLY	
Inches of Water	Voltage	Inches of Water	Voltage
Empty	0.4	Empty	0.4
1"	0.7	1"	0.8
2"	1.0	2"	1.0
3"	1.4	3"	1.2
4"	1.6	4"	1.4
5"	1.8	5"	1.6
6"	2.0	6"	1.8
7"	2.2	7"	2.0
8"	2.4	8"	2.2
9"	2.6	9"	2.4
10"	2.8	10"	2.6
11"	3.0	11"	2.8
12"	3.2	12"	3.0

Resistance Table	
Component	Resistance( $\Omega$ )
Drain pump	13.2
Lid Lock	70
Mode Shifter	5700
Motor(1/2HP)	3.1
Motor(1/3HP)	3.8

Water Valves(Cold,Fab_Soft)	1374
Water Valves(Hot, Rinse)	1515

\*These values are read from the leads while disconnected from the control PCB  
 \*\*The values are approximate  
 \*\*\*Measure lid lock resistance between pins 2 and 3 and pins 1 and 3 while lid is closed