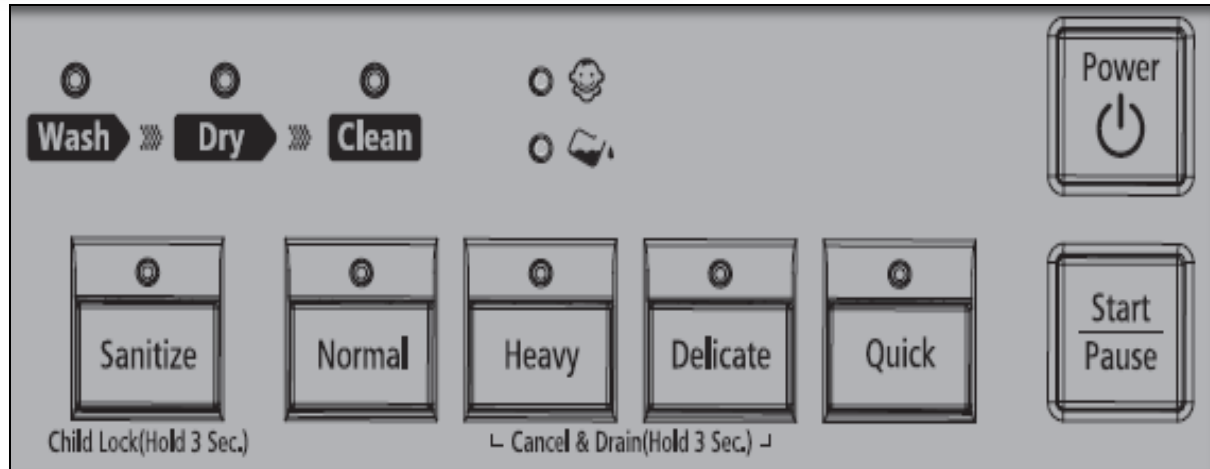














































## Service Test Modes & Codes



To access Service Test Mode Door Must Be Closed

- Press the **Heavy + Delicate + Power** buttons at the same time for two seconds to enter Service Test Mode.
- All LEDs are displayed for the first two seconds and then Software version will be indicated in Binary Code using Leds ....Wash / Dry / Clean/Child Lock
- Just like the DMR series you advance through the test next mode by pressing the Normal button . However each test will run by itself (see sequence chart on next page) when test has completed an led will light to indicate test is done and you can then advance to the next test .
- Code list and descriptions located on pp#3. Note: Like the DMR series the codes are displayed during operation or test modes and are not stored in memory.

	Display	Parts	Symptoms	Note
No.1	'Quick'	Inlet Valve Flow Meter Low Level Sensor	Water Supply Error  Low Level Water Error  'Normal' + 'Heavy' + 'Delicate' LED	If Door is open, 'Delicate' + 'Quick' LED will blink. Water is supplying after low level S/W is detected. If low level S/W is high, Draining at first. If water is not supplied, Water Supply Error ('Quick' LED 4E) will blink. When water level is low after water is supplied, Low Level Water Error ('Normal' + 'Heavy' + 'Quick' LED 9E) will blink. When Turbidity problem is detected after water is supplied, 'Normal' + 'Heavy' + 'Delicate' LED will blink. If all functions in this mode are completed, 'Wash' LED will blink.
No.2	'Delicate'	Circulation Motor	Spray arms water distribution	If Low Level S/W is detected before Circulation Motor is operating, 'Sanitize' LED will blink.
No.3	'Delicate' + 'Quick' LED	Circulation Motor Heater Thermistor	Heater Error	If Low Level S/W is detected before Circulation Motor is operating, 'Sanitize' LED will blink. Circulation Motor and Heater will be operated. When the temperature is 60°C or above, the heater is turned off and 'Wash' LED will blink. If Heater or Thermistor have problems, the Heater Error ('Heavy' + Delicate' LED) will blink. Dispenser will operate during 2 minutes and 10 seconds only one time.
No.4	'Heavy' + 'Quick'	Fan Motor Dispenser	The Fan Motor does not work.	Operate Vent Motor and check whether Rinse aid is filled. If there is not rinse in Dispenser, Rinse Refilled light is ON.
No.5	'Heavy' + 'Delicate' LED	Overflow Sensor	Over level water error	Water is supplied until Over Level Water Error ('Heavy' + 'Quick' LED) is blinked. If Over Level Water Error occurs, overflow sensor is OK.
No.6	'Heavy' + 'Delicate' + 'Quick'	Drain Pump Low Level Sensor	Drain Error	Drain pump will work until low level is detected. If Low level is not detected after 60 seconds, Drain Error ('Delicate' LED) will blink.
No.7	'Normal' + 'Quick' LED	Inlet Valve Circulation Motor Fan Motor Drain Pump Heater	Operate each operating part when the button is pressed. (See the sequence to the right)	When the 'Quick' is pressed, it toggles between Inlet Valve On ('Quick' LED On) -> Off ('Quick' LED Off). When 'Heavy' is pressed, it works Circulation Motor On ('Heavy' LED On) - Off ('Heavy' LED Off) -> Fan Motor On ('Heavy' LED On) -> Off ('Heavy' LED Off), Drain Pump On ('Heavy' LED On) -> Off ('Heavy' LED Off) When 'Delicate' is pressed, it woks Heater On ('Delicate' LED On during 2 seconds). When a different button is pressed operation of the operating part, is stopped and the applicable operation for the pressed button's function will start.

Fault CODES	DESCRIPTION	SUSPECT	Technical Description
    Normal Heavy Delicate Quick	<b>Temperature Sensor error</b> <b>TE1</b>	Thermister Main PCB	Thermister terminal not connected Possible defect : Thermistor , Main PBA
    Normal Heavy Delicate Quick	<b>Heater error</b> <b>HE</b>	Open Heater Heater Relay Main PCB	Heater terminal not connected Possible defect : Main Wire-Harness, open Heater or Heater Relay, Main PBA
    Normal Heavy Delicate Quick	<b>High temperature Heating error.</b> <b>HE1</b>	Heater relay Main PCB Thermister	Water temperature sensed above 176F during operation Possible defect : Thermistor , Main PBA or shorted heater relay
    Normal Heavy Delicate Quick	<b>Low-level water error</b> <b>9E</b>	Low level Sensor	Level sensor fails to close after 1.2 gallons of water is metered in. If water is present check for level sensor float stuck in empty position or bad switch
    Normal Heavy Delicate Quick	<b>Water supply error</b> <b>4E</b>	Flow Meter Water Valve No Water Supply	Main PCB does recognize proper or no water flow through flow meter. Check supply and water valve
    Normal Heavy Delicate Quick	<b>High temperature Water supply error</b> <b>4E1</b>	Incoming Water Temp sensed above 176F	Faulty Thermister or Main PCB / Incoming water is over 176F
    Normal Heavy Delicate Quick	<b>Drain error</b> <b>5E</b>	Level sensor fails to open after 3 minutes of drain	Evaluate Drain Operation / Possible kinked drain hose / obstruction in pump or sump assembly. If water has drained check for level sensor stuck in closed position.
    Normal Heavy Delicate Quick	<b>Over-level Error</b> <b>OE</b>	Water reaches top of level sensor container	Suspect stuck water valve / Faulty flow meter or possible drain issue.
    Normal Heavy Delicate Quick	<b>Leakage error</b> <b>LE</b>	Water Present in Base of D/W	Inspect for leaks / if no leaks present unplug sensor if code goes away replace leak sensor if not check harness for short or pinched wire before replacing Main PCB
    Normal Heavy Delicate Quick	<b>Button error</b> <b>6E2</b>	Stuck Button	When a button is pressed continuously for 30 seconds. Check panel alignment / Main or Sub PCB failure
    Normal Heavy Delicate Quick	<b>Door open warning</b>	Door is open in wash or at start	Door is not close properly. Possible defect : Door lock switch, Main PBA

# SUB PBA (7KEY)

1 2 3 4 5 6 7 8 9 10 11

## MAIN PBA

11 10 9 8 7 6 5 4 3 2 1 CN803(WHT)

CN302(BLK)

CN301(WHT)

CN101(WHT)

CN201(NTR)

8 6 3 7 4 5 9 1 2

2 1 4 3 7 5 6 8 9 10

1 2 3

8 1 7 4 3 6 5 2 9 10

