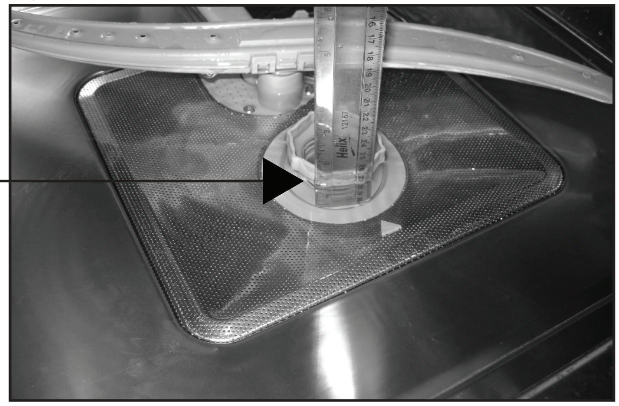
Figure A

At end of Step 2 of Customer Service Program, water should be about 3.5cm ± 0.5cm above filter.

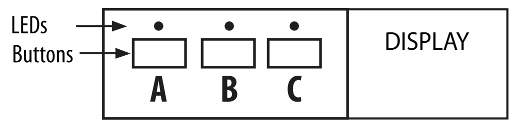


Failure Storage and Customer Service Programs

The control provided with the dishwasher stores error codes from the last wash cycle run (units with a display record the last eight wash cycles).

Special Function Menu

Unit must be powered off. While pressing and holding any two buttons, turn the dishwasher on with the main switch. After releasing the buttons you will be in the special function menu. You will then need to select the program you wish to use. See below for further instructions to access the program you wish to use. Buttons A, B, C are the first three buttons to the left of the panel display.



Customer Service Program

1. To access the customer service program, you must enter into the special function menu as described above. The LED B will be solid, LED C will flash and "P0" will show on the display.
2. Press the B button once to scroll to the Customer Service Program. LED C will now be solid and "P1" will show on the display.
3. Press the C button once to start the Customer Service Program and "S:00" will be displayed.

Step	Action	Time/Temp	Notes
0	Check coil		Check that pumps always work when on.
0	Drain pump	15s	Drain pump ok
1,2	Filling (3.0L)	72s	Check that water fills
3,4	Pause	10s	Check water level in appliance
5,6,10,11	Drain pump	20s	Sump base should be empty
12,13,14	Filling (4.0L - See figure A) + Main pump	96s	Water level at top of coarse filter
15	Main pump + Soap dispenser	10s	
16	Main pump + Aqua sensor calibration	110s	
17	Main pump + Heating	104°F	
18	Pause	5s	
19	Main pump	5s	
20	Main pump + Rinse agent + Heating	60s	Dispenser coil impulses = rinse agent setting value
21	Main pump + Heating	149°F	about 2.5°F/minute
22	Main pump	15s	
24	Drain pump	Empty	Displays "0" when done

NOTE: If a failure occurs, the program goes on, stops or ends according to the failure handling.

Failure Storage (see back for errors)

To access the failure storage program, enter special functions menu and press "Start" button.

- The error code for the last wash cycle will be displayed (for the models employing the display, the selector switch can be used to scroll through errors from previous wash cycles).
- To escape out of this program, press the main switch off and on and hold "Start" button for reset.

ERROR CODES

** (Verify the wire continuity through connectors.)

DW-Behavior with Failure	Display/LED Active/Clean/Sanitzed	Solution
No error	E:00 or ○ ● ✹	No error
Power Module		
Program abruptly ends with sanitized LED glowing	E:01 or ○ ○ ✹ pump control defective or low appliance voltage	• Replace power module (base)
Heating error/Runs without heating	E:02 or ○ ○ ✹ defective heater working relay	
Door		
No operation possible Clean LED glowing	E:06 or ○ ✹ ○ door sensor fault	• Check connections between door latch switch (e1) and power module. With door closed measure supply voltage on hall sensor. If voltage across door latch switch connector is >10V replace the door latch sensor. If < 10V, replace power module.
Heating		
No heating	E:08 or ○ ✹ ✹ low water level main pump	• Check for kinks in inlet hose. • Check for overturned bowl/pots collecting water. • Check connections at water inlet valve (s2).
	E:09 or ○ ✹ ✹ defective heating circuit	• Check connection between heating element (r1) and Power Module. The resistance of the heating element (r1) between 1 & 3 should be 10Ω @ room temp. If resistances are not present, replace heat-pump assembly. Otherwise replace power module.
	E:10 or ○ ✹ ✹ deposits on heating element	• Check water hardness. If necessary decalcify and clean. If repeats, change heat pump.
	E:11 or ○ ✹ ✹ NTC-error, error in wiring to NTC	• Check connection between NTC and power module. The resistance of the NTC between terminals 1 & 2 and between terminals 2 & 3 should be ~ 10kΩ @ room temp. The resistance between terminals 1 & 3 should be ~ 20kΩ @ room temp. If resistances are not present, replace heat-pump assembly. Otherwise replace power module.
	E:13 or ○ ✹ ✹ water temp too high (<75° C)	• Protective Measure - Check temperature of water supply.
Filling		
Not filling, drain pump active	E:15 or ✹ ○ ○ safety-switch activated, dishwasher cannot be switched off	• Check for water in base carrier. • Check connection at drain pump or drain hose. • Ensure safety float switch is not stuck. • Ensure water inlet valve is not stuck "open". • Check safety float switch and its connection to power module.
Main Pump		
Program abruptly ends with Active and Sanitized LEDs glowing	E:20 or ✹ ○ ✹ main pump fault	• Check connections between main pump (m2) and power module. • The resistance between any 2 terminals of the main pump should be ~ 13Ω @ room temp. If not, then replace the main pump. If resistance is ~13Ω then replace the power module.
	E:21 or ✹ ○ ✹ main pump blocked	• Remove foreign particles that are causing obstruction. • Replace heat-pump assembly if the impeller is stuck.

ERROR CODES

** (Verify the wire continuity through connectors.)

DW-Behavior with Failure	Display/LED Active/Clean/Sanitzed	Solution
No error	E:00 or ○ ● ✺	No error
	Drain Pump	
Program abruptly ends with Active and Clear LEDs glowing	E:23 or ✺ ✺ ○ defective drain pump	• Check connections between drain pump (m3) and power module. • The resistance between any 2 terminals of the drain pump should be ~ 80Ω @ room temp. If not, then replace the drain pump. If resistance is ~ 80Ω then replace the power module.
	E:24 or ✺ ✺ ○ draining not possible	• Ensure garbage disposal plug is removed. • Check drain hose length is no longer than 150", includes 20" drain loop and is installed no higher than 43" above floor. • Ensure drain line is not clogged.
	E:25 or ✺ ✺ ○ draining not possible	• Ensure no foreign particles are causing obstruction. • Remove drain pump cover from sump and check that drain pump impeller is turning freely. • Ensure drain pump cover is seated correctly in the sump.
	Aquasensor	
Cycle without Aquasensor active	E:28 or ✺ ✺ ✺ Aquasensor error	• Check connections between aqua sensor (14) and power module. • Check if aquasensor is dirty.
No power	Field wiring is not 120V, open "On/Off" switch, open "Start" switch	• Check the field wiring connections and if the supply voltage is ≈98-120V.** • Ensure proper seating of main switch and power module connections. • Replace the "On/Off" switch if its resistance in "On" position is '∞' Ω. • If only drain pump is running, refer to E:15. • If no LED's flash when "On/Off" switch is pressed, and the dishwasher door is open, replace the operating module.
Dispenser not operating	Detergent dispenser door jammed, loose wiring connections	• Ensure detergent dispenser cover is not jammed. • Check connections between the rinse aid dispenser, dispenser actuator (Q3) and power module. ** • Observe dispenser actuator operating while running the CS program in steps 15 and 20. If the actuator operates but does not open the detergent dispenser cover, then replace the dispenser assembly. If no operation of the actuator is observed, replace the power module.
Rinse agent LED is glowing	No rinse agent, loose wiring connections	• Fill the rinse aid, if it is empty. • Reseat rinse aid (B3) & operating module (K12) connections. ** • Check that voltage between outer most terminals of B3 is ≈13VDC. If not, replace the operating module. If the voltage is ≈13VDC, replace the dispenser.
Not drying	No rinse aid, rinse aid setting=0, no Extra Dry heat	• Educate customer on rinse aid, if it is not being used. • Set the rinse aid setting to "4" if it is on "0". • Activate Extra Dry heat, if it is not activated.
Main pump running, dishes still dirty	Clogged spray arms or filters	• Clear any obstructions from filter and spray arms
	Spray arms not rotating	• Ensure proper spray arm attachment and free rotation. • Ensure proper alignment of the spray arms with the supply tube if spray arms are not turning.