FLASHING FLO/FL SITUATIONS

Pre 2002~ Digital 1000, 2000 systems, heat light not on, yet system demands heat. Year 2002 Flashing "FL" Digital 3000, control panel is flashing "FLO"

The system is detecting an open flow switch with the pump running, or the pump not running with the system demanding heat or a filter cycle. Check the following; filters cleanliness, knife valves and jets are open, tub has correct water level, ½ to ½ up the skimmer opening, no debris on suction fittings and air is removed from system using bleed valve on the plumbing lines. Is the circulation pump working? YES NO Feel for water flow from jets. Is there any? Remove the filter and run pump on low speed. Does message disappear? Clean or replace filter. System is ok Using a multi tester verify the correct power output to the circulation pump. Yes, but error code Inspect cord for damage. Verify that NO the pump turns freely. Inspect the is still present impellor for debris. Does the pump operate correctly? Verify that the flow switch cable is properly connected to the circuit board. Inspect flow switch cable for damage. Is the metal strip pushed against the gray post? Has the error code gone away? NO YES- System is OK. NO If voltage to pump is not correct check system input voltage if input voltage is Unplug the flow switch from the board correct and fuses are good, try sanding and check the switch for continuity using the contact points of pump low relay. If a Logic jumper stick. If no continuity voltage is still not present across the low shows with the switch closed and the speed wire and the blue wire connection pump running then replace the switch. points, replace the circuit board. If Make sure switch is installed in the voltage is correct and pump will not run, right direction Do not over tighten! replace the pump.