H & L Series Machine Alarms

ST-103.R2 PM, SM, CM Controls

GIRBAU NORTH AMERICA

Summary

The information listed below is provided as general guidelines to assist in troubleshooting. It is ultimately the owner's/ distributor's/ technician's responsibility to properly troubleshoot the piece of equipment down to the failed component(s). Girbau North America's will not be held liable for any part replacement and/or labor associated with the misdiagnosed troubleshooting of the equipment.

It is recommended to run the Test Mode to assist in troubleshooting any error codes. There are Test Mode videos and bulletins located on our website www.gnalaundry.com. Click on Services and Support. Click on Technical Service.

Alarm/ Error Code	Description/ Possible Causes	Action
ALn bAL	***Unbalance condition-*** Alarm is on if continuity is not detected in unbalance sensor.	1. Unbalanced load of linen. Makes sure machine is properly loaded. 2. Verify the unbalance LED on the micro. This is an input signal that should be on when there isn't an unbalance condition. 3. Inspect balance switch and associated wiring. Replace or repair if necessary. 4. Possible bad input chip on the microprocessor, or a microprocessor.
ALn Prob	***Temp probe alarm-*** Water bath temperature thermistor is out of range	1. Verify resistance of the thermistor. The resistance should be 10 – 20 KΩ at room temperature. This thermistor has a negative temperature coefficient, as the temperature increases the resistance will decrease (and vice versa). 2. Inspect wiring for chaffing or a bad connection. 3. Possible bad microprocessor.
ALn L	***Water level alarm-*** Water level is detected in the machine when the machine should be empty.	1. Verify water valves are not running when they should be turned off. 2. Verify the functionality of the drain valve. 3. Inspect the air dome and pressure switch tube assembly for any obstructions/ debris. 4. Replace the pressure switch on newer style microprocessors. 5. Replace the microprocessor.
ALn StAr	***Faulty door lock alarm-*** Alarm comes on if 1 minute after starting a cycle the microprocessor doesn't see the door lock switch close	1. Verify the door lock input LED on the microprocessor. If the LED is present the microprocessor should be seeing the door lock signal. 2. Verify the door is properly closed. 3. Verify the door thermal actuator is operating correctly. The thermal actuator will turn on, heat up, and at a certain point it will turn off. The thermal actuator will cool down and begin to retract. The door lock switch should be actuated during this whole time. 4. Possible bad driver chips on the microprocessor or bad microprocessor.

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ALn A	***Faulty water supply alarm-*** Programmed water level has not been reached within 10 minutes.	1. Verify water supply valve is open. 2. Clean water valve filter screen (conical filter) 3. Place machine in test mode to test the functionality of the water valves, drain, and pressure switch circuit. 4. Verify power supply to hot or cold fill valves 5. Verify air dome is not clogged 6. Verify pressure switch tube is not clogged. 7. Replace/ repair valve. 8. Replace pressure switch and/ or pressure switch tube or microprocessor.
ALn SL	***Water overfill alarm-*** High water level detected for more than 5 consecutive seconds	1. Verify that no water valves are stuck in the open position with the power turned off. If this happens it is more than likely a mechanical issue. 2. Verify that no water
ALn C	***Faulty heating supply-*** Alarm is on if auxiliary heat is turned on and the bath temperature does not change 18°C in 20 minutes	1. Verify heat supply (steam or electric) 2. Verify coil voltage at the heat contactor 3. Inspect wiring for 4. Inspect heating elements (electric)
ALn C – ALn F ---	***Water temperature exceeded-*** Water temperature is above the programmed temperature	1. Verify the heat contactors are not stuck in the open position or are leaking. If so rebuild or replace contactor/ valve. 2. Verify the thermistor is reading correctly. It should read about 10 – 20 KΩ at room temperature. 3. Verify that there is no voltage present at the heat contactor when the valve should be in the off position. If so suspected by driver chip or bad microprocessor.
ALn FIrE	***Faulty electric heating-*** Input voltage is not detected at X6-16 on the microprocessor and the microprocessor does not call for heat.	1. Verify the input LED on the microprocessor is illuminated. 2. Verify the mechanical function of the contactor 3. Verify that there is no coil voltage at the contactor. 4. Verify wiring at plug X6 5. Replace chips on the microprocessor or microprocessor.
ALn c	***Temperature does not drop-*** Bath temperature does not drop 9°F in 5 minutes.	1. Verify the water valves are functioning correctly and are not stuck open or closed 2. Verify the functionality of the drain valve 3. Verify the pressure switch is functioning correctly 4. Verify the pressure switch hose and pressure accumulator are free of debris. 5. Verify the thermistor is reading correctly. It should read about 10 – 20 KΩ at room temperature.

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ALn E	***Drain alarm-*** Water is detected in the drum 5 minutes after the drain opens	1. Verify the machine is properly configured. 2. Verify the drain valve functions as it should. Verify there are no obstructions in the drain valve. 3. Verify the water valves are not stuck open. 4. Verify the air dome and/ or pressure tube is not clogged or dirty 5. Check for loose/ poor wire connection between circuit board and drain. 6. Check for loose/ poor wire connection between microprocessor and pressure switch. 7. Replace drain valve 8. Replace pressure switch, chip on the microprocessor, or microprocessor
ALn Notr	***Overheated motor-*** The motor klixons (overloads) have opened up due to an over heat condition. The klixons will close once the motor cools down.	1. Verify the basket rotates freely 2. Verify that LED H1 is illuminated. If illuminated this indicates the microprocessor sees the klixons closed. 3. Verify that the motors have cooled down. After the motor has cooled down the klixon should close. 4. Verify the drain system is clear of any obstructions. 5. Verify the motor shaft rotates freely 6. Verify motor wiring
ALn door	***Door alarm-*** During a wash cycle there is a change detected in the door lock circuit. Door does not unlock within 5 minutes after the end of a cycle.	1. Run the test mode on the machine and verify the functionality of the door hinge and door lock switch. Verify respective LEDs. Taking voltage tests at the X3 terminal will make it easier to see respective signals without having to take apart the door lock system. 2. Verify the door is properly closed. 3. Verify the door thermal actuator is operating correctly. The thermal actuator will turn on, heat up, and at a certain point it will turn off. The thermal actuator will cool down and begin to retract. The door lock switch should be actuated during this whole time. 4. Possible bad driver chips on the microprocessor or bad microprocessor.
EnEr	***Emergency stop alarm-*** Emergency stop switch actuated	1. Release the E-Stop switch 2. Faulty E-Stop switch 3. Incorrect wire connections to the E-Stop
ErAS Err Pr *Program does not start*	***Empty program*** ***Blocked program***	1. Adjust program 2. Verify that X13 keyboard terminal functions 3. Verify that the key is in the RUN position 4. Verify the keyboard operates correctly in TEST