

**Life Fitness 9100 Series Heart Rate and Telemetry Equipped Treadmills**  
**TROUBLESHOOTING GUIDE**

**Symptom: "Notify Maintenance" - "Speed Control Error"**

Malfunction	Probable Cause	Corrective Action
Speed control error	<p>Faulty Power</p> <p>Loose connections at motor controller.</p> <p>Faulty Emerson motor controller.</p> <p>Faulty CPU control board.</p> <p>Faulty drive motor assembly.</p>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Verify power is a dedicated outlet. To verify, turn breaker at panel to off. Using a voltmeter, take a voltage reading at electrical outlet. With breaker off, zero volts should be detected.</li> <li><input type="checkbox"/> If voltage is present at electrical outlet, line is not wired for dedicated service.</li> <li><input type="checkbox"/> Record speed error #, and refer to maintenance mode in diagnostics.</li> <li><input type="checkbox"/> Start speed diagnostics. If "Total Cal" and "Cal/HR" LED's are not lit, inspect wire connections at control board and motor controller. Check connections.</li> <li><input type="checkbox"/> If "Total Cal" LED is lit and "Cal/HR" LED is out, then with your feet off the striding belt, press the speed increase key. The "Total Cal" LED should go out initially while the "Cal/HR" LED comes on. Once the belt reaches speed, both LEDs should be on. If this is the case, both the control board and the motor controller are functioning, complete the Speed Performance Evaluation.</li> <li><input type="checkbox"/> Switch the Emerson motor controller with another Life Fitness model 9100 treadmill, if available.</li> <li><input type="checkbox"/> Replace motor controller.</li> <li><input type="checkbox"/> Switch the CPU control board with another Life Fitness model 9100 treadmill if available.</li> <li><input type="checkbox"/> Replace control board.</li> <li><input type="checkbox"/> Inspect main drive motor and drive belt. Replace if necessary.</li> </ul> <p>Call Life Fitness Customer Support Services 847-451-0036 or 1-800-351-3737</p>