

IMPORTANT

Engineering Bulletin #105 Encoder Faults

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Slowdown Failure Fault

The latest version of O. Thompson software for the Microflite Ultra 2000 car controller has implemented a new fault, "Slowdown Failure." This fault detects that the slowdown limits U4 and D4 are not wired or incorrectly wired to the Encoder. The fault was implemented to ensure that the limits were wired correctly to the system, as they are used to prevent the car from going into the pit or the overhead.

On older version of the Encoder PC board, this fault may occur erroneously. Boards that are Revision level A through E are effected. On version 'F' and later, there is not a problem.

If you have an Encoder board which is one of these versions, the board can easily be modified to eliminate the problem. Resistors R12 and R13 should be changed from 2.2 K ohm to 470 ohm. This can be accomplished in the field. Remove power from the controller, and access the car top. Clip the existing R12 and R13 resistors off the board, leaving enough wire to solder the new resistors to. Solder the 470 ohm resistor in place, and the car can be returned to service.

If you have any questions about this procedure, please contact O. Thompson Technical Support.

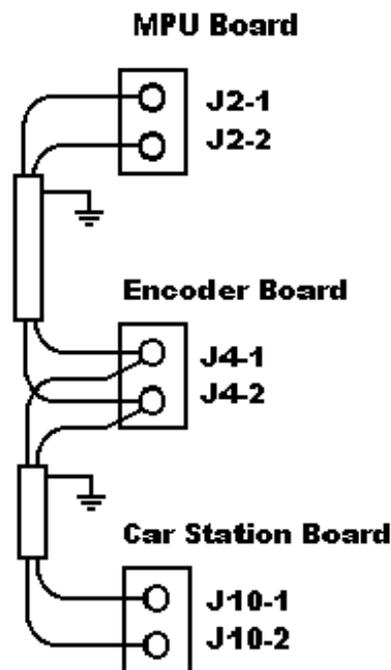
Encoder Sensor Failure, Excess Deviation Faults

We recently found several locations where Encoder Sensor Failure and Encoder Excess Deviation were occurring. Replacing the Encoder PC board, the Sensor board, and the Sensor cable did not correct the problem. What was found was that the LON network was not connected properly. In all cases, the network was run to a terminal strip on the car, and from the terminal strip it was then routed to the Intelligent Car Station board and

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the Encoder board, creating two network 'branches.' This is not desirable, as network communication will not properly occur. The correct method of connecting the network is to route it from the controller MPU board to the Encoder board. The shield on the cable should be grounded on the controller side, and left disconnected at the Encoder. The network should then be wired to the Intelligent Car Station board. This cable should have its shield connected only at the Car Station board end. Please refer to the diagram below.



If you have any questions, please contact O. Thompson Technical Support at (718) 417-3131.

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