# VR Sensor Signal - Multiple Zero Crossing

- 2024-09-27 - Engine Articles

The attached report details a problem that has been seen on both the SECM48 and SECM70 with a VR crank encoder sensor, but may occur on other ECUs too.

The problem is that the signal has a second bump on its way from low to high voltage.  This second bump can cause the signal to cross zero twice for a single tooth resulting in an erratic speed reading.

The fix is to add a 10kohm resistor between the VR+ and VR- signal wires.  This cleans up the signal and fixes the problem.

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- SECM 70

**添付**

- Crank signal issue report 92149_R_9.pdf (1.12 MB)