



Countries: CANADA, UNITED STATES **Document ID:** IK1201215
Availability: ISIS, FleetSIS **Revision:** 0
Major System: ENGINES **Created:** 9/25/2014
Current Language: English **Last Modified:** 10/2/2014
Other Languages: NONE **Author:** Jeff Novak
Viewed: 224

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Coding Information

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Title: DTC 191-16 TOSS/VSS Service Information

Applies To: N13 OBD

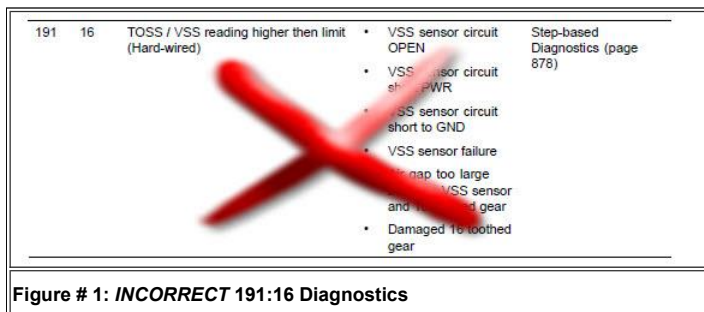
CHANGE LOG

Please refer to the change log text box below for recent changes to this article:

10/2/2014 - Initial Article Release

DESCRIPTION

The diagnostics for fault code 191:16 have previously been to inspect the wiring, sensor and tone ring of the VSS. These diagnostics from the manual are *INCORRECT* and should not be followed when 191:16 is present (manual will be updated). This document explains how the 191:16 fault works and also covers setup of the vehicle over speed indicator.


Figure # 1: INCORRECT 191:16 Diagnostics

FAULT CODE

DTC/Light	Description
SPN 191 FMI 16	TOSS / VSS Reading higher then limit (Hard-Wired)

SERVICE INFORMATION

This fault is not related to the vehicle speed sensor, wiring or tone ring, but a reaction to the "Vehicle Over Speed Indicator" programmable parameter(77542). If the customer has requested to turn on vehicle over speed notices to driver then the following parameters need to be programmed accordingly:

ID	NAME	Description
77542	Vehicle Over Speed Indicator	- <i>No Vehicle Over Speed Lamp</i> - Vehicle over speed notifications are turned off
		- <i>Vehicle Over Speed Level 1 Blinking Lamp</i> - Vehicle over speed notifications are enabled for one level(Lev

		- <i>Vehicle Over Speed Level 2 Blinking Lamp</i> - Vehicle over speed notifications are enabled for two levels(Le 2)
77232	Vehicle Over Speed Level 1	This parameter sets the speed at which the first vehicle over speed warning will occur.
77242	Vehicle Over Speed Level 2	This parameter sets the speed at which the second vehicle over speed warning will occur.

Once these parameters have been programmed accordingly and a the unit reaches a vehicle over speed the 191:16 fault will be logged in the ECM. Since the engine warning lamp(EWL) will be illuminated when the vehicle over speed occurs a fault must be stored in the ECM due to OBD requirements. The 191:16 fault is simply a result of a over speed being reached and should not be diagnosed as a hardware issue.

Other TOSS / VSS faults such as the ones below are *CORRECT* and should be diagnosed according to the manual.

DTC/Light	Description
SPN 191 FMI 1	TOSS / VSS Not detected while vehicle moving
SPN 191 FMI 2	TOSS / VSS Signal erratic, intermittent, or incorrect
SPN 191 FMI 3	TOSS / VSS Signal out of range HIGH
SPN 191 FMI 4	TOSS / VSS Signal out of range LOW

OTHER RESOURCES

[N13 Engine Diagnostic Manual](#)

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