

C0252 VSES Sensors Uncorrelated

Diagnostic Instructions

- Perform the Diagnostic System Check – Vehicle prior to using this diagnostic procedure.
- Review Strategy Based Diagnosis for an overview of the diagnostic approach.
- Diagnostic Procedure Instructions provides an overview of each diagnostic category.

DTC Descriptor

DTC C0252 00: VSES Sensors Uncorrelated

Circuit/System Description

The electronic brake control module (EBCM) controls the vehicle stability enhancement system (VSES) by monitoring the inputs of the yaw rate/lateral accelerometer sensor, and steering wheel angle sensor. The readings are compared to an internal calibrated value so it knows if the vehicle is having an instability condition to activate the VSES. When the readings indicate a VSES event is occurring longer than 10 seconds is not possible under normal conditions. The yaw/lateral sensor is a combination sensor in one component.

Conditions for Running the DTC

- The steering angle has been centered.
- VSES is active.

Conditions for Setting the DTC

One of the following conditions exist:

- VSES is engaged for 10 seconds with the yaw rate error always in either understeer or oversteer.
- The yaw rate error is greater than 10 degrees/second for 5 seconds, and the yaw has not changed and the lateral acceleration is less than 0.5 g.

Action Taken When the DTC Sets

One or more of the following actions may occur:

- The EBCM disables the antilock brake system (ABS)/traction control system (TCS) and vehicle stability enhancement system (VSES) for the duration of the ignition cycle.
- The ABS indicator illuminates.
- The Stabilitrak indicator illuminates.
- The driver information center (DIC) displays All Wheel Drive Off/ Service Traction Control / Service Stabilitrak message.

Conditions for Clearing the DTC

- The condition for the DTC is no longer present.
- The EBCM clears the history DTC when a current DTC is not detected in 100 consecutive drive cycles.

Diagnostic Aids

The following conditions can cause this concern:

- Improper steering alignment or tire pull
- An improperly mounted or loose combination yaw rate/lateral accelerometer sensor
- An internal yaw rate/lateral accelerometer failure

Reference Information

Schematic Reference

Antilock Brake System Schematics

Connector End View Reference

Component Connector End Views

Description and Operation

ABS Description and Operation

Electrical Information Reference

- Circuit Testing
- Connector Repairs
- Testing for Intermittent Conditions and Poor Connections
- Wiring Repairs

Scan Tool Reference

Control Module References for scan tool information

Circuit/System Verification

Verify that DTC C0186, C0196, C0253, or C0710 is not set.

If any of the DTCs are set, refer to Diagnostic Trouble Code (DTC) List - Vehicle

LAUNCH