



STAR ONLINE PUBLICATION



Case Number: S2308000014

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Symptom/Vehicle Issue: Anti-lock Brake System (ABS) Warning Lamp on

Owner Complaint/Technician Observation: Owner complains after a recent service repair for the steering column and an alignment the ABS warning lamp comes on at times. Technician observed Diagnostic Trouble Code (DTC) C0051-86 Steering Angle Sensor (SAS) – Signal Invalid, along with environmental data showing the steering angle sensor erratic reading of -500.8.

Repair Procedure: Inspect all components replaced during any recent repairs for any circuit issues, power ground and or bus connections. This can ensure that all calibration procedures can be completed properly.

Validate the vehicle is properly aligned. With the steering wheel centered, wheels straight, turn the steering wheel to the full right and then to full left from center counting the turns and monitoring the degree differences for side to side for possible offsets greater than 7.5 degrees. Correct any differences as needed to ensure proper calibrations Fig 1 and 2.

Example 21 MV: Improper centering after a steering wheel/column service.



Fig 1

This document does not authorize warranty repairs. This communication documents a record of past experiences. STAR Online does not provide any conclusions about what is wrong with the vehicle. Rather, it captures all previous cases known that appear to be similar or related to the vehicle symptom / condition. You are the expert, and you are responsible for deciding on the appropriate course of action.

Contact STAR Center, or your Technical Assistance Center Via TechCONNECT or eCONTACT ticket if no solution is found



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Reposition the misaligned parts, align the vehicle and use the scan tool to clear any offsets and calibrate as needed to complete. Select Electric Power Steering (EPS) - MISC Functions – **Steering Angle Calibration and Clear Steering Pull Compensation.**

■ EPS

Electric Power Steering

Flash

DTCs

Data

Misc Functions

System Tests

Actuators

Details

Configuration

NAME

Clear Steering Pull Compensation

Steering Angle Calibration

Fig 2

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