



STAR ONLINE PUBLICATION



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Symptom/Vehicle Issue: Steering Wheel Off Center. Diagnostic Trouble Code (DTC) C0051-00 Set.

Discussion: If the steering wheel is off center with DTC C0051-00 STEERING WHEEL POSITION SENSOR (MODULE, Brake System Control (BSCM)) perform the following steps.

1. Place the car in the alignment rack, make sure the wheels are straight.
2. Use WiTECH to read DTC(s) and document them on the repair order.
3. Navigate to the electric power steering module (EPS). Locate the steering angle sensor degrees in Data. Record the reading on the repair order.
4. Under Misc Functions, perform Steering Angle Calibration routine.
5. In the brake system control module (BSCM) under Misc Functions, perform ABS Initialization Routine. This routine contains a Reset Steering Angle Sensor Offset routine.
6. C0051-00 should now be stored. If so, clear all DTC(s)
7. Perform ignition cycle and verify the DTC C0051-00 is no longer present.
8. Perform Test Drive and verify the Steering wheel is centered.
9. Verify the DTC is no longer present.

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, eCONTACT or Service Library entry if no solution is found.