

this concern, DISCONTINUE this test and FOLLOW the TSB instructions. If no Technical Service Bulletins (TSBs) address this concern, INSTALL a new ABS module. REFER to: Anti-Lock Brake System (ABS) Module .

DIAGNOSIS AND TESTING > ANTI-LOCK BRAKE SYSTEM (ABS) AND STABILITY CONTROL > PINPOINT TESTS > PINPOINT TEST J : STEERING WHEEL POSITION SENSOR SIGNAL FAULTS

Normal Operation and Fault Conditions

The PSCM monitors steering wheel rotation speed, angle and direction of rotation and sends the information to the ABS module over the HS-CAN2. A failure of the HS-CAN2, PSCM or the internal sensors causes the ABS to set one or more Diagnostic Trouble Codes (DTCs).

DTC Fault Trigger Conditions

DTC	Description	Fault Trigger Conditions
C0051:62	Steering Wheel Position Sensor: Signal Compare Failure	This DTC sets in continuous memory and on-demand if the difference between the steering wheel angle signal and the calculated reference signal is too high.
C0051:64	Steering Wheel Position Sensor: Signal Plausibility Failure	This DTC sets in continuous memory and on-demand if the difference between the steering wheel angle signal and the calculated reference signal is too high or if the steering wheel angle sensor does not match other stability control sensor inputs (yaw rate, lateral acceleration, longitudinal acceleration, roll rate).
C0051:67	Steering Wheel Position Sensor: Signal Incorrect After Event	This DTC sets in continuous memory and on-demand if the center position of the steering wheel cannot be determined after 30 seconds of driving at a speed between 12 km/h (7 mph) and 50 km/h (31 mph).
C0051:85	Steering Wheel Position Sensor: Signal Above Allowable Range	This DTC sets in continuous memory and on-demand if the absolute value of the calculated steering wheel angle is greater than a predetermined threshold.

Possible Causes