



## STAR ONLINE PUBLICATION



**Case Number:** S2505000009

**Release Date:** October 2025

**Symptom/Vehicle Issue:** Diagnostic Strategies For Brake System Control Module (BSCM) Diagnostic Trouble Code(s) (DTC).

**Customer Complaint/Technician Observation:** Antilock brake system (ABS), electronic stability control (ESC), electronic parking brake (EPB) lights on cluster. Tech may find the below DTCs.

BSCM:

- C0502-00 – Left Front Wheel Speed Sensor “A” Circuit Low
- C0503-00 – Left Front Wheel Speed Sensor “A” Circuit High
- C0504-00 – Left Front Wheel Speed Sensor “A” Intermittent/Erratic
- C0505-00 – Left Front Wheel Speed Sensor “A” Correlation
- C0508-00 – Right Front Wheel Speed Sensor “A” Circuit Low
- C0509-00 – Right Front Wheel Speed Sensor “A” Circuit High
- C050A-00 – Right Front Wheel Speed Sensor “A” Circuit intermittent / Erratic
- C050B-00 – Right Front Wheel Speed Sensor “A” Correlation

PCM:

- C0501-00 – Left Front Wheel Speed Sensor “A” Range/Performance
- C0507-00 – Right Front Wheel Speed Sensor “A” Range/Performance
- C050D-00 – Left Rear Wheel Speed Sensor “A” Range/Performance

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.**



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### C0513-00 – Right Rear Wheel Speed Sensor “A” Range/Performance

**Discussion:** Upon further investigation, the technician may find a front DTC code on the BSCM with a Powertrain Control Module (PCM) code on the front AND rear. For the listed DTCs above, perform the BSCM diagnostics first. Once the BSCM code is resolved, the PCM related DTC(s) should also be resolved (stored), and no further repair is needed. However, if the PCM codes are still present (active) after resolving the BSCM codes, perform their diagnostics next.

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