



STAR ONLINE PUBLICATION



Case Number: S2523000091

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Symptom/Vehicle Issue: Antilock Brake (ABS) Light On. Intermittent Or Implausible Wheel Speed Sensor Signal Diagnostic Trouble Codes (DTCs)

Customer Complaint/Technician Observation: Service ABS message on instrument cluster. Technician finds wheel speed sensor codes.

Discussion:

1. Perform vehicle scan to search for stored/active DTC's related to ABS warning light (Intermittent/Erratic Wheel Speed Sensor reading or Implausible wheel speed signal received).
2. Remove suspect wheel bearing from knuckle and visually inspect encoder surface. Avoid touching with hands or metal tools. Refer to Service Library 02 - Front Suspension / Front, Independent Front Suspension / HUB AND BEARING / Removal and Installation.
 - A. If magnetic encoder surface has signs of permanent damage (dented or gouged), replace wheel bearing.
 - B. If magnetic encoder surface and/or wheel speed sensor shows any dirt/metal debris on surface, proceed to step C. to clean surface.



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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C. Clean encoder surface and wheel speed sensor head with a microfiber cloth/clean cloth. Wipe the surfaces to remove the particles that are blocking the magnets under the black encoder surface, so the wheel speed signal functions as intended.

<<<NOTE>>> Do NOT use any cleaning solvents, brake cleaners, high-pressure or close-range air, metal brushes or screwdrivers. Do not use magnets.

3. Reassemble front corner module as per standard service procedures.
4. Clear DTCs, road test and verify that ABS light does not return.

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