



Service Bulletin

File In Section: 05 - Brakes

Bulletin No.: 02-05-25-006

Date: September, 2002



**Subject: Antilock Brake (ABS) Activation At Low Speeds
(Clean Wheel Speed Sensor Mounting Surface)**

**Models: 1999-2000 Cadillac Escalade
1995-1999 Chevrolet Silverado (Old Style)
1995-2001 Chevrolet Suburban, Tahoe
1995-2003 Chevrolet Astro Van, Blazer, S10
1995-1999 GMC Sierra (Old Style)
1995-2001 GMC Envoy, Jimmy, Yukon, Yukon XL
1995-2003 GMC Safari Van, Sonoma
1995-2001 Oldsmobile Bravada
with 4WD or AWD**

Condition

Some customers may comment on ABS activation at low speeds, usually below 8 km/h (5 mph). Upon investigation, the technician will find no DTCs set.

Cause

The cause of this condition may be an increased air gap between the wheel speed sensor and the hub reluctor ring due to rust and debris built up on the sensor mounting surface.

Correction

Measure AC voltage and clean wheel speed sensor mounting surfaces.

1. Raise the vehicle on a hoist.
2. Disconnect both the front wheel speed sensor harness connectors.
3. Place a DVM across the terminals of each sensor connector.

4. Rotate the wheel with hand speed and measure the ACmV's. The reading should be at least 350 ACmV's.
5. If the reading is between 200 and 350 ACmV's, remove the wheel, caliper and rotor in order to gain access to the speed sensor.
6. Remove the wheel speed sensor and plug the hole to prevent debris from falling into the hub during service.
7. Clean the speed sensor mounting surface on the hub to remove rust and corrosion.

Important: Make sure that the sensor sits flat on the hub. If the sensor flange is distorted, replace the sensor.

8. Apply a thin layer of bearing grease to the hub surface prior to sensor installation.

9. Install either the original sensor or a new one in the hub and secure the sensor. Ensure that the sensor is seated flush against the hub.
10. Install the rotor, the caliper and the wheel.
11. Place the DVM across the sensor terminals and recheck the voltage while rotating the wheel by hand. The voltage should now read at least 350 ACmV's.

Warranty Information

For vehicles repaired under warranty, use:

Labor Operation	Description	Labor Time
H2412	Sensor, Wheel Speed (Front Both) - Replace	Use published labor operation time

