

Wheel Speed Sensor: All Technical Service Bulletins Brakes - ABS Lamp ON Intermittently/Constantly

Bulletin No.: 03-05-25-008

Date: October 01, 2003

TECHNICAL

Subject:

Intermittent/Constant ABS MIL Illuminated (Replace Both Front Wheel Speed Harnesses)

Models:

2001-03 Buick Century, Regal
2001-03 Chevrolet Impala, Monte Carlo
2001-02 Oldsmobile Intrigue
2001-04 Pontiac Grand Prix

Condition

Some customers may comment on an intermittent or constant ABS malfunction indicator light.

Cause

The front wheel speed sensor harness may wear or come into contact with the tie rod end stud. Additionally, the harness may, in some instances, loop over the tie rod stud. In this case, the wheel speed sensor should be examined for damage.

Correction

Replace original wheel speed sensor harnesses by splicing in revised wheel speed sensor harnesses. The new design harnesses are of a different length and have revised retention clip locations. Use the following procedure to replace the harnesses.

1. Raise and suitably support the vehicle on a hoist.
2. Disconnect the left wheel speed sensor harness from the sensor/bearing assembly.
3. Remove the harness retainers from the lower control arm.
4. Follow the harness back to the point where the harness enters the larger engine harness conduit.
5. Cut the electrical tape and open the conduit. Select a location where the splice will be within the engine harness conduit. Cut the original harness off.
6. Using GM/Packard Seal and Crimp Connectors, splice the two wires from the new harness to the old. Specific instructions for use of the Seal and Crimp Connectors are printed on the inside of the cardboard overleaf sealing the bag in which the harness is shipped. If Seal and Crimp Connectors are not available, you may use the crimp and solder type included with the harness kit.
7. Retape the conduit closed making sure to create an effective seal against road splash.
8. Route the replacement harness following the same path as the original. Fully seat the 4 retainers into the control arm.

Note:

In the next step you will be required to measure the distance between the last retaining clip in the control arm and the end of the electrical plug that connects to the wheel speed sensor. Failure to properly perform this measurement and suitably adjust the harness may result in entanglement or infringement on the tie rod stud.

9. Hold the end of the new electrical harness and stretch it firmly. Due to manufacturing tolerances, you will need to measure from the end of the plug (that attaches to the wheel speed sensor) to the rear edge of the first retaining clip. This distance must not exceed 24.7 cm (9.75 in). If the distance is equal to or greater than 24.7 cm (9.75 in), you must move the retaining clip to allow more slack at the control arm and less between the wheel speed sensor and the retainer. Repeat the measurement until properly adjusted.
10. Disconnect the right wheel speed sensor harness from the sensor/bearing assembly.
11. Remove the harness retainers from the lower control arm.

12. Follow the harness back to the point where the harness enters the larger conduit.
13. Cut the electrical tape and open the conduit. Select a location where the splice will be within the larger harness conduit. Cut the original harness off.
14. Using GM/Packard Seal and Crimp Connectors, splice the two wires from the new harness to the old. Specific instructions for use of the Seal and Crimp Connectors are printed on the inside of the cardboard overleaf sealing the bag in which the harness is shipped. If Seal and Crimp Connectors are not available, you may use the crimp and solder type included with the harness kit.
15. Retape the conduit closed making sure to create an effective seal against road splash.
16. Route the replacement harness following the same path as the original. Fully seat the 4 retainers into the control arm.

Note:

In the next step you will be required to measure the distance between the last retaining clip in the control arm and the end of the electrical plug that connects to the wheel speed sensor. Failure to properly perform this measurement and suitably adjust the harness may result in entanglement or infringement on the tie rod stud.

17. Hold the end of the new electrical harness and stretch it firmly. Due to manufacturing tolerances, you will need to measure from the end of the plug (that attaches to the wheel speed sensor) to the rear edge of the first retaining clip. This distance must not exceed 24.7 cm (9.75 in). If the distance is equal to or greater than 24.7 cm (9.75 in), you must move the retaining clip to allow more slack at the control arm and less between the wheel speed sensor and the retainer. Repeat the measurement until properly adjusted.

Part Number	Description
10340313	ABS Jumper Harness (01-03 Impala, Monte Carlo) — Right
10340314	ABS Jumper Harness (01-03 Impala, Monte Carlo)-Left
10340315	ABS Jumper Harness (01-04 Grand Prix, 01-02 Intrigue)-Right
10340317	ABS Jumper Harness (01-04 Grand Prix, 01-02 Intrigue)-Left
10340318	ABS Jumper Harness (01-03 Regal, Century)-Right
10340316	ABS Jumper Harness (01-03 Regal, Century)-Left
12089189	Crimp N' Seal Double End Connectors (x4)

Parts Information

Parts are currently available from GMSPO.

Warranty Information

Labor Operation	Description	Labor Time
N6600	Wiring and/or Connector - Brake System/Traction Control - Repair or Replace	0.5 hr

For vehicles repaired under warranty, use the table.

GM bulletins are intended for use by professional technicians, NOT a "do-it-yourselfer". They are written to inform these technicians of conditions that may occur on some vehicles, or to provide information that could assist in the proper service of a vehicle. Properly trained technicians have the equipment, tools, safety instructions, and know-how to do a job properly and safely. If a condition is described, DO NOT assume that the bulletin applies to your vehicle, or that your vehicle will have that condition. See your GM dealer for information on whether your vehicle may benefit from the information.



WE SUPPORT
VOLUNTARY
TECHNICIAN
CERTIFICATION

Disclaimer