



Service Bulletin

PRELIMINARY INFORMATION

Subject: Unwanted Grade Braking - Low Power - And/Or Transmission Busy Shifting

Models: 2012-2015 Cadillac Escalade Models
2012-2013 Chevrolet Avalanche
2012-2015 Chevrolet Silverado, Suburban, Tahoe
2012-2015 GMC Sierra, Yukon Model

This PI was superseded to update model list. Please discard PIT5206A.

The following diagnosis might be helpful if the vehicle exhibits the symptom(s) described in this PI.

Condition/Concern

Some owners may comment of any/all of the following issues:

- Unwanted grade braking when not going down a grade
- Reduced/Low engine power with no DIC messages or DTCs (Brake Pedal Override Feature)
- Transmission busy or frequent up and down shifts with no DTCs

These issues may be caused by the Brake Pedal Position (BPP) sensor not being learned correctly in the ECM (Engine Control Module).

Recommendation/Instructions

To view the BPP data in the ECM use the scan tool and build it as follows:

Tech 2 (2013 and older models): Powertrain/ Select Engine Type/ Engine Control Module/ Data Display/ Auto Transmission Data

GDS (2014 and newer models) : Module Diagnostics/ Engine Control Module/ Data Display/ Automatic Transmission Data

Scroll down and view the following parameter:

BPP Signal = Applied or Released (should read Released with brake pedal released)

BPP Sensor = 0% to 100% (should read 0% with brake pedal released)

BPP Sensor = Varying Voltage (should read near 1 volt (+/- .3 volt approximately) with pedal released)

BPP Sensor Learned Released Position = Voltage (should equal the BPP sensor voltage with pedal released)

Note: NOT ALL ENGINE TYPES WILL HAVE ALL OF THE ABOVE PARAMETERS.

With the brake pedal released use the BPP Sensor parameters to determine if the ECM has learned the BPP released position correctly. If the BPP Sensor Learned Released Position voltage does not match the BPP Sensor voltage with the pedal in the released position, the ECM will need to have a BPP relearn performed. When looking up the ECM BPP relearn procedure in SI, there will be a relearn procedure for the BCM and one for the ECM. Make sure you are using the ECM relearn procedure, example SI Doc ID's: 2655204 (old body style) and 2535744 (new body style).

Diagnostic Tip for old body style: If the ECM will not perform a BPP Sensor relearn, then SPS program the ECM. After the ECM SPS programming is complete, the BPP will relearn. Use the scan tool to verify the BPP Sensor is now showing 0% with the brake pedal released.

Warranty Information

The correction for this concern may be one of several repairs described above. For vehicles repaired under warranty, please use the appropriate warranty labor operation based on the actual cause and repair.

Please follow this diagnostic or repair process thoroughly and complete each step. If the condition exhibited is resolved without completing every step, the remaining steps do not need to be performed.

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.



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