



# Service Bulletin

File in Section: -

Bulletin No.: PIT5122D

Date: September, 2012

## PRELIMINARY INFORMATION

**Subject:** Service Stability Message Low Power Brake Light And Cruise Control Operation DTC C0161 And/Or C0277

**Models:** 2012 - 2013 Cadillac Escalade Models  
2012 - 2013 Chevrolet Avalanche, Express, Silverado, Suburban, Tahoe  
2012 - 2013 GMC Savana, Sierra, Yukon and Denali Models

**This PI was superseded to update model and model years. Please discard PIT5122C.**

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

### Condition/Concern:

New for the 2012 models is a Dual Brake Pedal Position (BPP) Sensor (two sensors in one). The Dual BPP replaces the old style open/closed brake switch which has been used for years. The Dual BPP is directly wired to the BCM and ECM (see example Document ID: 2611404) and is based on a variable resistance in the sensor, like a TPS. The Dual BPP sensor requires a relearn procedure in both the BCM and ECM. The relearn procedures will set the BPP sensor's home values. The BCM's value is used to determine the action of the driver applying the brake pedal and to provide this information to the vehicle's subsystems via the GMLAN communication bus. The ECM's value is used for a new feature called "Electronic Brake Pedal Override". This feature will reduce engine power if it detects the brake pedal is applied while the accelerator is also applied.

The following service repairs will require a BPP Relearn:

- Replacement or removal of the brake pedal position sensor
- ECM Replacement and/or Reprogram
- BCM Replacement and/or Reprogram
- Installation of any GM Accessory which requires programming of the ECM or BCM.

#### BCM

- C0161 will set in the EBCM
- Service Stability Message
- C0277 Sym4B - Home position not learned
- Brake lights stay on without brake pedal applied
- Must press down farther than normal on the brake pedal to disengage the cruise control
- Must press down farther than normal on the brake pedal to turn on the brake lights

#### ECM

- Unwanted Electronic Brake Pedal Override (Low Power, feels like the truck is in a TCS or VSES event. If the TCS is turned off the issue will be gone. There will be NO Indication to the driver that the system is active.)

**Note:** Items which may disable the Electronic Brake Pedal Override: TCS Disable, VSES Disable, 4wd Low Range, and Auto Transmission Ranges M3, M2, and M1.

### Recommendation/Instructions:

If you experience any of the above symptoms, perform a BPP Relearn procedure for each of the modules (BCM and ECM).

### Warranty Information:

For vehicles repaired under warranty, please use the appropriate warranty labor operation based on the actual cause and repair. The latest version of bulletin 06-08-47-001: "Warranty, SPS, Control Module Diagnostics and Configuration Information, Programming, Set-Up" can be used as a reference.

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.