



Service Bulletin

File in Section: -

Bulletin No.: PIT5179

Date: September, 2012

PRELIMINARY INFORMATION

Subject: Cruise Control Inoperative (Inspect Circuit 6311)

Models: 2007-2013 Cadillac Escalade Models
2007-2013 Chevrolet Avalanche, Silverado, Suburban, Tahoe
2007-2013 GMC Sierra, Yukon Models

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

Condition/Concern:

When diagnosing a cruise control inoperative issue it may be noticed that the "BPP Circuit Signal" and/or "TCC/ Cruise Brake Pedal" parameters are showing "Applied" with the brake pedal released. These parameters can be found using the Tech 2 under Powertrain/ECM/Data Display/Cruise PTO Traction Data. These parameters use the input to the ECM on circuit 6311 to determine if the brake pedal is either applied or released, see example Doc ID 2064555. When monitoring this circuit at the ECM, using a DVOM, there may be voltage present without the brake pedal applied, in most cases, it is approximately 9 volts.

Circuit 6311 is very unique in the fact that each module connected to this circuit, except for the BCM, outputs a very low amperage reference voltage (approximately 9 volts). The BCM pulls this reference voltage down near 0 volts. When using a DVOM to monitor a properly working circuit there would be approximately 12 volts with the brake pedal applied and near 0 volts with the brake pedal released.

If there is a faulty BCM or an open/high resistance in circuit 6311 to the BCM, the reference voltage being sent out by each of the other modules will not be pulled down near 0 volts. If using a DVOM to monitor circuit 6311 at the BCM there will be approximately 9 volts with the brake pedal released. The presence of this voltage will make the modules think the brake pedal is applied when it is not and the cruise will be inoperative.

Recommendation/Instructions:

Inspect for any opens/high resistance or terminal issue in circuit 6311. Repair as necessary.

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 10-00-89-005A: "Warranty Administration - Revised Wiring Repair Labor Operations and Required Additional Information" 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.