



# Service Bulletin

## PRELIMINARY INFORMATION

**Subject:** Cruise Control Inoperative (Inspect Circuit 6311)

**Models:** 2007-2014 Cadillac Escalade Models  
2007-2013 Chevrolet Avalanche, Silverado  
2007-2014 Chevrolet Suburban, Tahoe  
2007-2013 GMC Sierra  
2007-2014 GMC Yukon Models

*This PI was superseded to update the Model years and condition sections. Please discard PIT5179.*

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 scan tool under 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). If the parameters are showing "Applied" with the brake pedal released, use a DVOM to check for voltage on circuit 6311 at the ECM. In many cases, there will be approximately 9 volts when there should not be any.

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 ECM 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.

**Note:** Remember circuit 6311 will have voltage at the ECM, from the brake switch, when the brake pedal is applied. So do NOT over look the obvious cause of a shorted brake pedal switch or a brake switch not fully releasing.

### 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 10-00-89-005: "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.

### Additional SI Keywords

P0571

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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