



Service Bulletin

PRELIMINARY INFORMATION

Subject: Cold Extended Crank - Rough Running - And/Or SES Light With DTCs P0172 And/Or P0175 - Check Fuel Alcohol Content

Models: 2010-2011 Cadillac Escalade
2009-2011 Chevrolet Avalanche, Express, Silverado, Suburban, Tahoe
2009-2011 GMC Savana, Sierra, Yukon
with E85 Compatible V8 Engine (RPO Code L20, L77, L94, L9H, LC9, LH9, LMF, or LMG)

This PI was superseded to update model years. Please discard PIP4792C.

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

Condition/Concern

On rare occasions, an extended crank on cold start, brief rough running on cold start, black exhaust color, and/or SES light may be experienced.

If a SES light is experienced, DTC P0172 and/or P0175 may be stored. If engine performance symptoms are experienced, they will generally diminish within 1 minute of startup.

This may be a result of the ECM learning the fuel ethanol content incorrectly even though the customer does not use E85 fuel.

Recommendation/Instructions

If this concern is experienced, note the Fuel Alcohol Content parameter found in the Fuel Trim Data List of the scan tool and the measured ethanol content of a fuel sample using the J44175 tester.

The difference (as listed on the scan tool) between the Fuel Alcohol Content parameter and the actual/measured ethanol content of the fuel sample should be less than 17%.

If the difference is less than 17%, this PI does not apply and SI diagnosis should be followed to isolate the cause of this concern.

If the difference is 17% or greater, reprogram the ECM with the latest calibrations from TIS2web as outlined in the Engine Control Module Programming and Setup (Gasoline Engines) Section of SI.

To complete the repair, also reset the Fuel Alcohol Content and Fuel Trims as outlined in the Fuel Composition Diagnosis Section of SI. Then, test drive the vehicle at cruise/highway speed with the engine at operating temperature and the purge valve commanded off for 3 minutes or until scan tool control is disabled (whichever occurs first).

Warranty Information

For vehicles repaired under warranty use:

Labor Operation	Description	Labor Time
2810075	Engine Control Module Reprogramming with SPS	Use Published Labor Operation Time

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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