



Service Bulletin

PRELIMINARY INFORMATION

Subject: Cold Start Misfires

Models: 2011-2013 Buick Enclave
2011-2013 Buick LaCrosse
2013 Cadillac ATS
2011-2013 Cadillac CTS
2011 Cadillac STS
2011-2013 Cadillac SRX
2013 Cadillac XTS
2011-2013 Chevrolet Camaro
2012-2013 Chevrolet Caprice PPV
2012-2013 Chevrolet Captiva Sport
2011-2013 Chevrolet Equinox
2012-2013 Chevrolet Impala
2011-2013 Chevrolet Traverse
2011-2013 GMC Acadia
2011-2013 GMC Terrain
with 3.0 LF1 or LFW and 3.6 LFX or LLT

This PI was superseded to update model years and models. Please discard PIP4959B.

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

Condition/Concern

A customer may complain of misfires or roughness on cold start up. There may also be a P0300 code. For this PI to apply the misfires will be limited to 1 or 2 cylinders.

Recommendation/Instructions

Misfires on start up only with high misfire rates always on one cylinder can be suspect for coolant entry at the liner to deck face casting. To inspect for this concern, add coolant dye to the system, run engine through warm up, pressurize the cooling system on a cold soak engine (after being warmed up to operating temperature) and inspect the suspect cylinder with a borescope for coolant dye evidence. At times it may be necessary to remove the head for inspection. It is hard to see the actual source (pin hole) but it usually streams down the liner so that you can see it with a borescope. If this concern is present, do not replace the cylinder head because that will not repair this concern. Call PQC per the latest version of 02-07-30-029, reference this PI and replace the engine.

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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