Bulletin No.: PIP4919A Date: Jan-2014



Service Bulletin

PRELIMINARY INFORMATION

Subject: Black Smoke On Cold Start

Models: 2009-2014 Buick Enclave 2009-2014 Buick Lacrosse 2013-2014 Cadillac ATS, XTS 2009-2014 Cadillac CTS, SRX 2009-2011 Cadillac STS 2010-2014 Chevrolet Camaro 2010-2014 Chevrolet Equinox 2009-2014 Chevrolet Traverse 2009-2014 GMC Acadia 2010-2014 GMC Terrain 2009-2010 Saturn Outlook 2009-2010 Saturn Vue with 3.0L LF1, LFW and 3.6L LLT, LFX, LF3 engines only

This PI was superseded to update the model list. Please discard PIP4919.

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

Condition/Concern

Concern: BLACK SMOKE ON START UP ONLY.

With the introduction of direct fuel injection systems, GM has revised the cold start control system to reduce cold start emissions. Quicker catalytic converter heating helps meet the ever changing emission requirements and improve fuel economy.

Recommendation/Instructions

A dual-pulse injection strategy is utilized during engine cold start to reduce the time required to bring the catalytic converter up to operating temperature. This split injection strategy lasts for about 60 seconds on cold start.

This process will cause the customer to see increased black smoke or soot during cold start and should be considered normal.

This cold start strategy is enabled upon start up after the engine has soaked for sufficient time such that the catalytic converter requires rapid reactivation.

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.

