

## Maintenance: All Technical Service Bulletins

### Engine - Valve Lifter Tick Noise At Start Up

#### TECHNICAL

**Bulletin No.:** 10-06-01-007C

**Date:** February 09, 2011

**Subject:** Active Fuel Management (AFM) Engine, Valve Lifter Tick Noise at Start Up When Engine Has Been Off for 2 Hours or More (Evaluate Noise and/or Replace Valve Lifters)

#### Models:

2007 Buick Rainier

2009 Buick LaCrosse Super, Allure Super (Canada Only)

2007 Cadillac Escalade

Built Prior to April 1, 2006 with 6.2L Engine RPO L92 (These engines were built with AFM Hardware but the AFM system was disabled)

2010-2011 Cadillac Escalade, Escalade ESV, Escalade EXT

2007 Chevrolet Monte Carlo

2007-2009 Chevrolet Impala

2007-2011 Chevrolet Avalanche, Silverado, Suburban, Tahoe, TrailBlazer, TrailBlazer EXT

2010-2011 Chevrolet Camaro SS

2007-2011 GMC Envoy, Envoy XL, Sierra, Yukon, Yukon Denali, Yukon XL, Yukon XL Denali

2007-2008 Pontiac Grand Prix

2008-2009 Pontiac G8

2007-2009 Saab 9-7X

Equipped with AFM (Active Fuel Management) and V8 Engine RPO L76, L94, L99, LC9, LFA, LH6, LMG, LS4, LY5 or LZ1

#### Attention:

This bulletin only applies to the AFM V8 engines listed above. It DOES NOT apply to Non-AFM Engines. If you are dealing with a Non-AFM engine that is experiencing a similar noise, please refer to Engine Mechanical > Diagnostic Information and Procedures > Symptoms in SI.

#### Supercede:

This bulletin is being revised to add models. Please discard Corporate Bulletin Number 10-06-01-007B (Section 06 - Engine/Propulsion System).

#### Condition

Some customers may comment on an engine valve lifter tick noise that occurs after the engine has been shut off for at least two hours. The tick noise may last from two seconds to ten minutes.

#### Cause

This condition may be caused by any of the following:

- Aerated oil in the valve lifter body, resulting in the valve lifter being unable to purge the air quickly.
- A low engine oil level or incorrect oil viscosity.
- Dirty or contaminated oil.
- A low internal valve lifter oil reservoir level.
- Debris in the valve lifter.
- A high valve lifter leak down rate.

#### Correction

If the SI diagnostics do not isolate the cause of this valve lifter tick noise and normal oil pressure is noted during the concern, perform the following steps:

1. Inspect the engine oil condition and level. Refer to Owner Manual > Service and Appearance Care > Checking Things Under the Hood > Description and Operation > Engine Oil in SI.
  - ◊ If the engine oil is more than one quart low, an incorrect oil viscosity is being used or if poor quality/contamination is observed, change the oil and filter.

#### Note

Allow at least a two hour soak time between engine OFF and start up when evaluating the tick noise.

2. Start the engine and evaluate the valve lifter tick noise.

- ◊ If the valve lifter tick noise is still present, replace all 16 valve lifters. Refer to Valve Lifter Replacement in SI.

## Parts Information

### Note

A V8 AFM engine requires 8 AFM lifters and 8 non-AFM lifters for a total of 16 lifters.

## Warranty Information (excluding Saab Models)

For vehicles repaired under warranty, use:

## Warranty Information (Saab Models)

For vehicles repaired under warranty, use the table.

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