

#10-06-01-007B: 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) - (Nov 17, 2010)

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
 2007 Chevrolet Monte Carlo
 2007-2009 Chevrolet Impala
 2007-2011 Chevrolet Avalanche, Silverado, Suburban, Tahoe, TrailBlazer
 2010-2011 Chevrolet Camaro SS
 2007-2011 GMC Envoy, Sierra, Yukon
 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](#).

This bulletin is being revised to add the 2011 model year. Please discard Corporate Bulletin Number 10-06-01-007A (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

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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.

Part Number	Description	Qty
12576400	Non AFM Hydraulic Valve Lifter	8
12632143	AFM Hydraulic Valve Lifter	8

Warranty Information (excluding Saab Models)

For vehicles repaired under warranty, use:

Labor Operation	Description	Labor Time
J0627	Valve Lifter Replacement - Both Sides	Use Published Labor Operation Time

Warranty Information (Saab Models)

For vehicles repaired under warranty, use:

Saab Labor Operation	Description	Failed Object	Fault/Reason Code	Location Code	Warranty Type	Repair/Action Code	STM Labor Time
21421-12	Replace part, Depressor	21421	40	5	1	01 (Replace)	Use Published STM Labor Operation Time

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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