



Service Bulletin

File in Section: -

Bulletin No.: 16-NA-241

Date: August, 2016

TECHNICAL

Subject: Engine Misfire, Ticking/Knocking Noise, No Compression due to Piston Damage, Malfunction Indicator Lamp (MIL) Illuminated

Brand:	Model:	Model Year:		VIN:		Engine:	Transmission:
		from	to	from	to		
Cadillac	Escalade	2007	2017	-	-	LC8, L20, LH6, L76, L77, L83, L86, L92, L94, L96, L9H, LC9, LFA, LH6, LH8, LH9, LMF, LMG, LT1, LT4, LV3, LY2, LY5, LY6 or LZ1	-
	CTS - V						
Chevrolet	Avalanche	2007	2017				
	Camaro						
	Colorado						
	Corvette						
	Silverado						
	Suburban						
Tahoe							
GMC	Canyon	2007	2017				
	Sierra						
	Yukon						
HUMMER	H2	2007	2010				

Involved Region or Country	North America and N.A. Export Regions
Condition	Some customers may comment on the following conditions: <ul style="list-style-type: none"> Malfunction Indicator Light (MIL) illuminated. Engine misfire. Engine ticking/knocking noise. The Technician may find no compression on the misfiring cylinder(s) with 100% leakage into the crankcase.
Cause	This may be caused by an aftermarket ECM calibrations/components and detonation, that lead to a melted piston.

Correction

If SI diagnosis isolates no compression on the misfiring cylinder(s) with 100% leakage into the crankcase, perform the following steps as necessary before disassembling the engine:

1. If a lighted bore scope is available, inspect the top of the related piston(s) through the spark plug hole to determine if any of the pistons are melted as shown below. These photos all show examples of pistons that were damaged/melted due to detonation that was induced from aftermarket calibrations and/or components. If this type of piston damage is noted, it is most likely the result of aftermarket ECM calibrations and/or components. Follow the remaining steps to

determine if this is a warrantable repair. If this type of piston damage is present and aftermarket items are found during steps 2 or 3, this should not be considered a warrantable repair.

- 2. Inspect for aftermarket components, such as an exhaust, ignition, high performance air filter (K&N style), or air intake system. Take photos and document accordingly if anything is found.
- 3. Determine if factory ECM calibration numbers and CVNs are present by following the latest version of Bulletin 09-06-04-026.



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Version	1
Modified	

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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