



Service Bulletin

PRELIMINARY INFORMATION

Subject: Loud Engine Whine Noise

Models: 2014-2015 Buick Regal
2013-2015 Cadillac ATS
2014-2015 Cadillac CTS Sedan (VIN A)
2013-2015 Chevrolet Malibu
2014-2015 Chevrolet Impala (VIN 1)
Equipped with 2.0L or 2.5L Engine (RPOs LCV (Code A), LKW (Code L) or LTG (Code X))

Attention: This PI also applies to any of the above models that may be Export vehicles.

This PI has been revised to update the Recommendation/Instructions and the Parts Information. Please discard PI1407A.

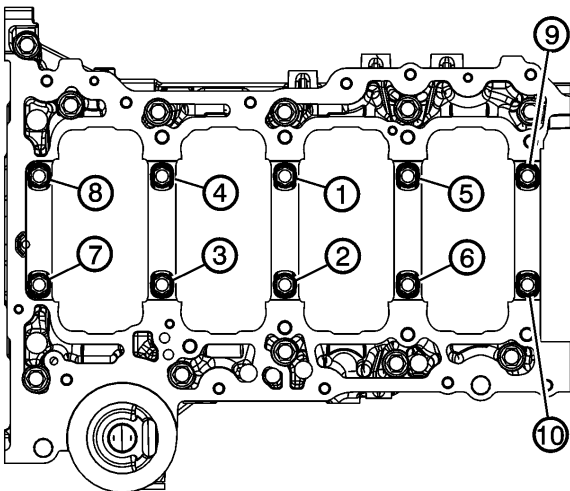
Condition/Concern

Some customers may comment about a loud whine noise coming from the engine. The frequency of the noise increases and decreases with the engine RPM.

Recommendation/Instructions

Remove the accessory drive belt to eliminate as a possible noise source. Verify the whine noise is coming from the lower end of the engine. Verify the pitch of the whine noise increases when increasing engine speed.

If noise source is determined to be internal of the engine, remove the oil pan and inspect for broken lower crank case bolts. Extract the broken portion of the bolt from the engine block after removing the lower block half.



Undamaged lower crank case bolts (shown above) must be replaced as well. They are a one time use bolt.

The balance shaft should also be replaced due to damage to the teeth where the bolt head was contacting the gear and producing the whine noise. Refer to Balancer Shaft with Oil Pump Removal in SI.

Parts Information

Part Number	Description
11547866	BOLT, LWR C/CAS (Qty 10)
12631922	SHAFT, BALR W/ OIL PUMP (VIN CODE X)
12628886	SHAFT, BALR W/ OIL PUMP (VIN CODES A and L)
12378521	SEALANT, RTV ENGINE SILICONE
12640445	FILTER, OIL
12638690	SEAL-VAC PUMP
12557840	BOLT/SCREW-CR/SHF BAL
12642142	GASKET-CM/SHF CVR
11611721	BOLT,BAL SHF SPKT

Warranty Information

For vehicles repaired under the Bumper-to-Bumper coverage (Canada Base Warranty coverage), use the following labor operation. Reference the Applicable Warranties section of Investigate Vehicle History (IVH) for coverage information.

Labor Operation	Description	Labor Time	
4080828*	Remove/Install Accessory Belt for Noise Verification	0.3 hr	
Add	Replace Balance Shaft and Lower Crank Case Bolts	Buick Regal RPO LTG	10.4 hrs
		Cadillac ATS RPO LTG	18.7 hrs
		Cadillac ATS RPO LCV	14.3 hrs
		Cadillac CTS Sedan (VIN 1)	18.1 hrs
		Chevrolet Malibu RPO LCV, LKW	9.8 hrs
		Chevrolet Malibu RPO LTG	10.4 hrs
		Chevrolet Impala	14.0 hrs

*This is a unique Labor Operation for Bulletin use only. It will not be published in the Labor Time Guide.

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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