

Document ID# 1874387
2005 Cadillac CTS



Subject: 5.7L LS1, LS6, 6.0L LS2, 5.3L LS4, L33, LH6, LM4, 7.0L LS7 - Engine Oil Leak at Rear Cover Assembly Area (Engine Block Porosity RTV Repair Procedure) #05-06-01-034C - (11/29/2006)

Models: 2004-2006 Buick Rainier
2005-2006 Cadillac CTS-V
2003-2006 Chevrolet Corvette, TrailBlazer
2004-2006 Chevrolet SSR
2005-2006 Chevrolet Silverado, Silverado SS
2006 Chevrolet Impala SS, Monte Carlo SS, TrailBlazer SS
2003-2006 GMC Envoy, Sierra
2004-2005 GMC Envoy XUV
2004-2006 Pontiac GTO
2005-2006 Pontiac Grand Prix GXP
2005-2006 Saab 9-7X
with 5.7L, 6.0L, 5.3L or 7.0L Engine (RPOs LS1, LS6, LS2, LS4, L33, LH6, LM4, LS7)

This bulletin is being updated to add the Cadillac CTS-V to the models. Please discard Corporate Bulletin Number 05-06-01-034B (Section 06 -- Engine/Propulsion System).

Condition

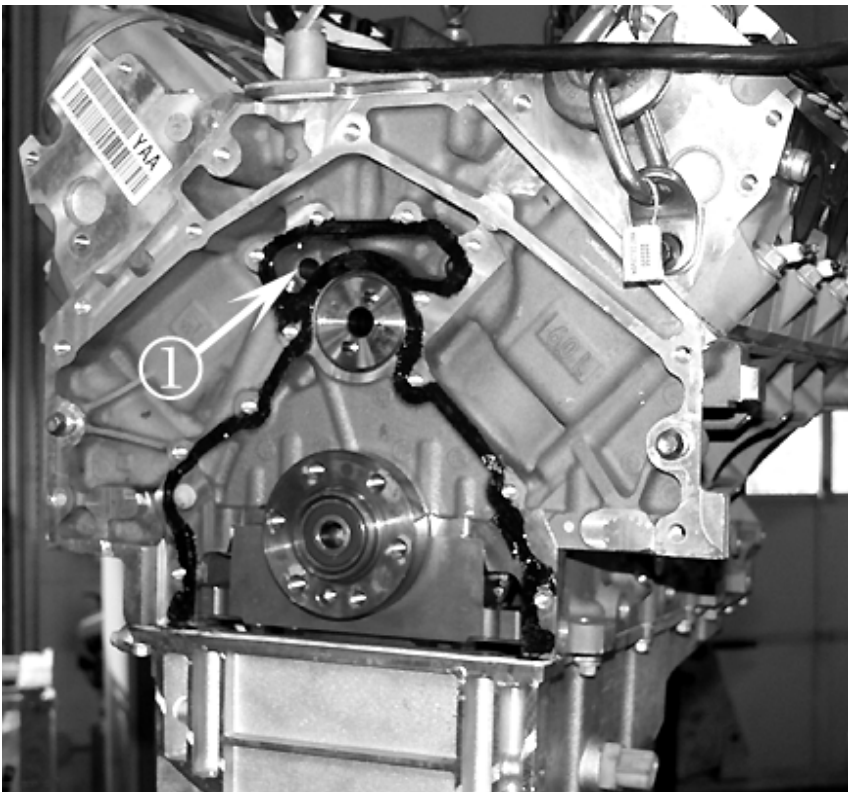
Some customers may comment on an engine oil leak.

Cause

Upon initial diagnosis, it may be determined that the leak is coming from the rear cover gasket. This condition may be caused by engine block porosity on the sealing surface.

Correction

Follow the steps for Oil Leak Diagnosis in SI to determine the source of the leak. If the leak has been diagnosed as coming from the engine rear cover assembly, refer to Engine Rear Cover Replacement in SI and remove the engine rear cover assembly. Inspect for engine block porosity where the engine rear cover mates to the engine block. If porosity is found anywhere on the sealing surface, use the following procedure to apply RTV to repair the engine block porosity. Refer to the illustration below.



Important: Clean any residual oil from the block and cover before applying the sealant in the next step.

1. Wipe a small amount of RTV, P/N 12378521 (in Canada, use P/N 88901148), onto the surface using a plastic scraper to fill the porosity.
2. Remove any excess RTV material, especially from inside the high pressure oil passage. Refer to #1 in the above illustration.
3. Allow the RTV to cure for 10 minutes.

Important: Refer to Engine Rear Cover Replacement in SI and follow the tightening specifications and sequence.

4. Reinstall the engine rear cover using a new gasket and a new crankshaft rear main seal. Refer to Engine Rear Cover Replacement in SI.

Parts Information

Important: For Saab (U.S.) only, use P/N 12345795, Engine Oil Dye (U.S.), or equivalent.

Part Number	Description	Qty
12574293	Gasket - Crankshaft Rear Oil Seal Housing	1
89060436	Seal, Crankshaft Rear Main	1
12378521 (U.S.) 88901148 (Canada)	Sealant	1
12345795 (U.S.)	Dye, Engine Oil	1
10953470 (Canada)	Dye, Engine Oil	1

Warranty Information (excluding Saab U.S. Models)

For vehicles repaired under warranty, use:

Labor Operation	Description	Labor Time
	Oil Leak -- Rear Cover Area -- Porosity Repair	
	CTS-V	5.5 hrs

2161901	Replace part, Seal, End Plate V8 T- Truck	21619	57	0	01	01	6.5 hrs
Add 9821001	R&R Anti- Submarine (Skid) Plate	--	--	--	--	--	0.2 hr
Add	To clean parts over 48,000 km (30,000 mi)	--	--	--	--	--	0.1 to 0.3 hr in 99 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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