



Service Bulletin

Bulletin No.: 18-NA-337

Date: March, 2019

TECHNICAL

Subject: Light Tap or Knock Noise from Engine When Hot

This Bulletin replaces PIP5401. Please discard PIP5401.

Brand:	Model:	Model Year:		VIN:		Engine: 3.0L (LGW) or 3.6L (LGX)	Transmission:
		from	to	from	to		
Buick	LaCrosse	2017	2017			LGX	
Cadillac	ATS	2016	2017			LGX	
	CTS					LGX	
	CT6				LGX, LGW		
	XT5	2017				LGX	
Chevrolet	Camaro	2016	2017			LGX	
GMC	Acadia (VIN N)	2017	2017			LGX	

Involved Region or Country	North America and N.A. Export Regions
Condition	Some customers may comment that there is a hollow knock or tap noise coming from the engine compartment.
Cause	This knock or tap noise may be coming from the mechanical vacuum pump, which is part of the oil pump assembly inside the oil pan and is the source of vacuum for the brake system.
Correction	If you encounter this condition, the following inspection and repair should be followed prior to further diagnostics. Note: This in no way adversely affects the ability of the vacuum pump to supply vacuum to the brake booster or the longevity of the serviceability of the vacuum pump itself.

Service Procedure

We have identified a possible concern with the mechanical vacuum pump for the brake system. Please follow this diagnosis precisely to address this concern.

- Start the engine and let it idle until the oil temperature is 208°F (98°C).
- Determine if the noise is present:
 - If noise is present, pump the brakes 3-5 times to see if the noise goes away. The noise will return a short time later.

⇒ The noise occurs when the brake booster system is at equilibrium (fully drawn down), so pumping the brakes will require the vacuum pump to create more vacuum to compensate.

- If the noise goes away when applying the brakes, replace the engine oil pump. Refer to *Oil Pump Replacement* in SI.
- If the noise is still present, refer to SI for further diagnostics.

Parts Information

Causal Part	Description	Part Number	Qty
x	PUMP, OIL	12696174	1

Warranty Information

Note: Only select the Labor Operation that corresponds with the repair performed.

For vehicles repaired under the Powertrain coverage, use the following labor operation. Reference the Applicable Warranties section of Investigate Vehicle History (IVH) for coverage information.

Labor Operation	Vehicle	Description	Labor Time
4086638*	All	Brake Booster Testing	0.2 hr
Add	LaCrosse	Oil Pump Replacement	2.7 hrs
Add	ATS		17.9 hrs
Add	CT6		19.1 hrs
Add	CTS		19.1 hrs
Add	XT5		15.6 hrs
Add	Camaro		17.3 hrs
Add	Acadia		15.6 hrs

*This is a unique Labor Operation for Bulletin use only.

Version	2
Modified	Released November 2, 2018 March 01, 2019 – Added additional vehicles and Add times in the Warranty Information Section.

