



Service Bulletin

Bulletin No.: 23-NA-170

Date: September, 2023

INFORMATION

Subject: Diagnostic Tips for Seized Engine or Engine Noise

This bulletin replaces PIP5900. Please discard PIP5900.

Brand:	Model:	Model Year:		VIN:		Engine:	Transmission:
		from	to	from	to		
Cadillac	CT5	2022	2023			6.2L (LT4)	
	Escalade	2021	2023			6.2L (L87)	
		2023	2023			6.2L (LT4)	
Chevrolet	Camaro	2019	2023			6.2L (LT1, (LT4)	
	Corvette	2019	2023			6.2L (LT1, LT4, LT2)	
	Express	2021	2023			6.6L (L8T)	
	Silverado 1500	2019	2023			4.3L (LV3) 5.3L (L82) 5.3L (L84) 6.2L (L87)	
	Silverado 2500HD/3500HD	2020	2023			6.6L (L8T)	
	Suburban	2021	2023			5.3L (L84) 6.2L (L87)	
	Tahoe	2021	2023			5.3L (L84) 6.2L (L87)	
GMC	Savana	2021	2023			6.6L (L8T)	
	Sierra 1500	2019	2023			4.3L (LV3) 5.3L (L82) 5.3L (L84) 6.2L (L87)	
	Sierra 2500HD/3500HD	2020	2023	6.6L (L8T)			
	Yukon	2021	2023	5.3L (L84) 6.2L (L87)			

Involved Region or Country	North America, Europe, Kazakhstan, Uzbekistan, Russia, Middle East, Iraq, Israel, Palestine, Argentina (Mercosur), Brazil (Mercosur), Bolivia (West), Chile (West), Colombia (West), Ecuador (West), Paraguay (West), Peru (West), Uruguay (West), Venezuela (West), Other Central America, Japan, Cadillac Korea (South Korea), GM Korea Company, China - SGM, Taiwan, Thailand (ASEAN), Singapore, Philippines, Australia/New Zealand, Caribbean, Egypt, Other Africa, South Africa
Condition	Some 4.3L, 5.3L, or 6.2L engines may not crank due to being seized with possible starter fuse being open. Various engine noises such as but not limited to: <ul style="list-style-type: none"> • Thumping (which may be perceived as upper engine noise or possibly from the transmission) • Knocking • Rattling
Cause	This condition may be caused by a crankshaft bearing failure.
Information	<p>Bearings Diagnosis:</p> <p>If any of the above issues are present and the condition has been identified as an internal engine concern, the following may be helpful:</p> <ul style="list-style-type: none"> – Inspect the engine oil and filter for excessive metal debris, specifically bearing material. <p>⇒ If bearing debris has been identified, then it will be necessary to remove the engine oil pan for further inspection of the crankshaft rod and main bearings.</p> <p>If it has been found there is damage to the crankshaft bearings, please follow the latest versions of Technical Service Bulletins 22-NA-074 and 18-NA-073 for further repair direction.</p> <p>Starter Concerns:</p> <ul style="list-style-type: none"> • If you find it necessary to replace the engine assembly, upon completion of the engine replacement, ensure that the engine starts and runs as designed and there are no other concerns. If the starter fuse is or was blown, replace the starter fuse and ensure the vehicle starts up and operates as designed. • If you noticed that the starter fuse was blown, it will be necessary to replace the starter fuse once new engine is installed. Do not replace the starter assembly. After fuse replacement, if you find that there may be a possible starter concern refer to diagnostic information in service information for further details.

Important: Service agents must comply with all International, Federal, State, Provincial, and/or Local laws applicable to the activities it performs under this bulletin, including but not limited to handling, deploying, preparing, classifying, packaging, marking, labeling, and shipping dangerous goods. In the event of a conflict between the procedures set forth in this bulletin and the laws that apply to your dealership, you must follow those applicable laws.

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Modified	Released September 19, 2023 Revised September 22, 2023 - Revise Model section and added Additional Countries to Involved Region or Country section.

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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