



Service Bulletin

Bulletin No.: 23-NA-170

Date: January, 2024

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	2024			6.2L (LT4)	
	Escalade	2021				6.2L (L87)	
		2023				6.2L (LT4)	
Chevrolet	Camaro	2019	2024			6.2L (LT1, (LT4)	
	Corvette	2019				6.2L (LT1, LT4, LT2)	
	Express	2021				6.6L (L8T)	
	Silverado 1500 (New Model)	2019	2019			4.3L (LV3) 5.3L (L82) 5.3L (L84) 6.2L (L87)	
	Silverado 1500	2020	2021				
	Silverado 1500 ITD (RPO J21, VIN Digit 5 = W/Y)	2022	2022				
	Silverado 1500 New (RPO J22, VIN Digit 5 = A/D)						
	Silverado 1500	2023	2024			6.6L (L8T)	
	Silverado 2500HD/3500HD	2020				5.3L (L84) 6.2L (L87)	
	Suburban	2021				5.3L (L84) 6.2L (L87)	
Tahoe	2021	5.3L (L84) 6.2L (L87)					
		5.3L (L84) 6.2L (L87)					

Brand:	Model:	Model Year:		VIN:		Engine:	Transmission:
		from	to	from	to		
GMC	Savana	2021	2024			6.6L (L8T)	
	Sierra 1500 (New Model)	2019	2019				
	Sierra 1500	2020	2021				
	Sierra 1500 Limited (RPO J21, VIN Digit 5 = 8/9)	2022	2022				
	Sierra 1500 New (RPO J22, VIN Digit 5 = H/U)						
	Sierra 1500	2023	2024				
	Sierra 2500HD/3500HD	2020					
	Yukon	2021					
						4.3L (LV3) 5.3L (L82) 5.3L (L84) 6.2L (L87)	
						6.6L (L8T)	
						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.

Version	3
Modified	Released September 19, 2023 Revised September 22, 2023 - Revise Model section and added Additional Countries to Involved Region or Country section. Revised January 16, 2024 - Added 2024 Model Year to Applicable Models.

