



Bulletin No.: PIP5824D

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Preliminary Information

PIP5824D HFV6 Gen2 Engine Misfire On AFM Cylinders 2 or 5

Models

Brand:	Model:	Model Years:	VIN: from to		Engine:	Transmissions:
Cadillac	CT5	2021 - 2025	All	All	3.0 LGY	All
Cadillac	XT5	2021 - 2025	All	All	3.6 LGX	All
Cadillac	XT6	2021 - 2025	All	All	3.6 LGX	All
Chevrolet	Blazer	2021 - 2025	All	All	3.6 LGX	All
Chevrolet	Camaro	2021 - 2024	All	All	3.6 LGX	All
Chevrolet	Colorado	2021 - 2022	All	All	3.6 LGZ	All
GMC	Acadia	2021 - 2023	All	All	3.6 LGX	All
GMC	Canyon	2021 - 2022	All	All	3.6 LGZ	All

Involved Region or Country	North America, Europe, Uzbekistan, Russia, Middle East, Iraq, Israel, Palestine, Argentina, Brazil, Bolivia, Chile, Colombia, Ecuador, Paraguay, Peru, Uruguay, Venezuela, Japan, Cadillac Korea (South Korea), GM Korea Company, China, Taiwan, Thailand, Singapore, Philippines, Australia/New Zealand, Egypt, Other Africa, South Africa
Condition	A 2021 - 2025 vehicle equipped with a HFV6 Gen2 engine with AFM may be brought into the dealership with misfires on cylinder 2 or 5 and may be accompanied by a rough idle complaint. This could be misfire all the time or start after an AFM event that may or may not go away. We have also seen this on a cold start that then goes away.
Cause	We have determined there is an issue with some rockers / SRFF's on the vehicles within Model Years listed above.

Correction:

If you have a vehicle with this concern, swap the AFM rocker oil control solenoid in the camshaft cover from side to side and reevaluate.

If the misfire goes away or moves to the other bank, replace the AFM oil control solenoid. If the misfire remains or comes back after an AFM event or a cold start on the same cylinder, remove that bank camshaft cover and turn the engine over by hand while closely watching the valves on the misfiring cylinder.

If the cylinder was a dead misfire all the time and the valves open, continue with normal misfire diagnosis.

If the valves do not open(either intake or exhaust) replace all 4 rockers / SRFF's and all 4 SHLA's / lifters for the affected cylinder.

NOTE: This PI will be updated or changed to a bulletin when engineering has decided there is no longer a parts concern with these rockers or a new part comes out.

Parts Information

Description	Part Number	QTY.
Switching valve rocker arm	12666601	4
Dual Feed Hydraulic Lash Adjuster	12690246	4

Warranty Information

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.

Please use the Labor Operation for the vehicle and bank you are working on.

Additional SI Keywords

DTC, P0300, P0302, P0305,

Version History

Version 3	5
Modified	09/22/2021 - Created on. 02/25/2022 - Updated to add Model Year and remove breakpoint. 11/10/2022 - Updated to add Model Year. 01/08/2024 - Updated to add Model Year. 02/25/2025 - Updated to add Model Year add direction of cold start.

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