



# Preliminary Information

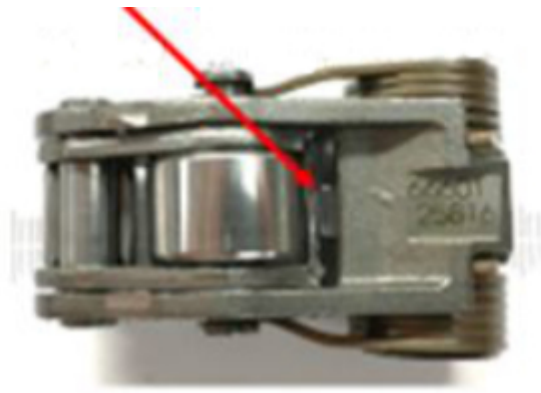
## PIP5802 Diagnostic Tip for DTCs P219A or P219B Setting With No Other Drivability Symptoms

Models

Brand:	Model:	Model Years:	VIN:		Engine:	Transmissions:
			from	to		
Buick	LaCrosse	2017 - 2019	All	All	3.6 LGX	All
Buick	Regal	2018 - 2020	All	All	3.6 LGX	All
Cadillac	ATS	2016 - 2019	All	All	3.6 LGX	All
Cadillac	CT5	2020 - 2021	All	All	3.0 LGY	All
Cadillac	CT6	2016 - 2020	All	All	3.0 LGW, 3.6 LGX	All
Cadillac	CTS	2016 - 2019	All	All	3.6 LGX	All
Cadillac	XT5	2017 - 2021	All	All	3.6 LGX	All
Cadillac	XT6	2020 - 2021	All	All	3.6 LGX	All
Chevrolet	Blazer	2019 - 2021	All	All	3.6 LGX	All
Chevrolet	Camaro	2016 - 2021	All	All	3.6 LGX	All
Chevrolet	Colorado	2017 - 2021	All	All	3.6 LGZ	All
GMC	Acadia	2017 - 2021	All	All	3.6 LGX	All
GMC	Canyon	2017 - 2021	All	All	3.6 LGZ	All

Involved Region or Country	North America
Condition	A customer may come in with an SES / CEL on and no other drivability concerns. The technician may find a DTC P219A or P219B set in the ECM. If other drivability concerns exist, follow SI diagnostics for the concern.
Cause	After performing normal diagnostics for these codes per SI if no cause is found then there may be an AFM cylinder rocker arm not opening the valve due to 1) A broken locking pin shelf or 2) A stuck locking pin (see pictures below)

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②



**Correction:**

To test for this concern, remove the corresponding camshaft cover and turn the engine over by hand while watching the AFM cylinder (2 or 5) rockers (SRFF's) and valves to ensure the rocker arm opens the valves and not just moves with the camshaft.

If this is the case and either valve does not open on the intake or exhaust, this would cause the imbalance and set the code.

At that point we recommend replacing both of the rockers (SRFF's) on that camshaft either intake or exhaust and then reevaluate the vehicle.

**NOTE: We have submitted for this information to be included in SI diagnostics for these codes and this PI will be edited, deleted, or changed into a bulletin as the need arises.**

Warranty Information

**For vehicles repaired under the Powertrain coverage, use the labor operation listed in the labor time guide for the actual repair made.**

**Reference the Applicable Warranties section of Investigate Vehicle History (IVH) for coverage information.**

Version History

Version	1
Modified	04/09/2021 - Created on.



GENERAL MOTORS