



Preliminary Information

PIP5993B Diagnostic Tip: Cold Start Rough Idle DTC P050D Set As Current Or In History

Proactive

Models

Brand:	Model:	Model Years:	VIN: from to	Engine:	Transmissions:
Buick	Enclave	2025	All	All 2.5 LK0	All
Chevrolet	Traverse All New	2024 - 2025	All	All 2.5 LK0	All
GMC	Acadia	2024 - 2025	All	All 2.5 LK0	All

Involvement Region or Country:	North America
Condition:	Cold start rough idle DTC P050D set as current or in history.
Cause:	Root cause currently under investigation.

Correction

1. Please open a TAC case if one is not already started for tracking.
2. Check Misfire Counts and verify if a particular cylinder(s) is misfiring.
3. Gather Battery Voltage from Freeze Frame and review generator duty cycle.
4. Clear the code, test drive the vehicle for 15 minutes.
 - a. Let vehicle sit until cold, cold start vehicle again to see if the misfire or DTC P050D will duplicate.
5. Check Coil Harness Coil Connectors and X160 terminal tension.
6. Swap Coils and Plugs first with misfiring cylinders and evaluate to see if condition changes.
 - a. Be sure to mark original location of spark plugs and ignition coils for reference.
7. Perform GDS Injector Balance Test and document results.
8. Complete published SI diagnostics for the P050D.

Warranty Information

For vehicles repaired under the Bumper-to-Bumper coverage (Canada Base Warranty coverage), use the following labor operation. Reference the Applicable Warranties section of Investigate Vehicle History (IVH) for coverage information.

Labor Operation:	Description	Labor Time:
4088468	Misfire Diagnosis	2.0 Hr.

Version History

Version	3
Modified	07/24/2024 - Created on. 08/22/2024 - Updated Model years. 09/06/2024- Updated step #7 of under correction to remove AFIT tester use.