



Preliminary Information

PIT5745D Diagnostic Tips - Intermittent Parasitic Battery Draw  
Below 40 Degrees F / Dead Battery / Slow Crank

Models

Brand:	Model:	Model Years:	VIN:		Engine:	Transmissions:
			from	to		
Buick	Enclave	2018 - 2022	All	All	All	All
Buick	Encore	2020 - 2022	All	All	All	All
Buick	Encore GX	2020 - 2022	All	All	All	All
Buick	Envision	2018 - 2020	All	All	All	All
Buick	LaCrosse	2018 - 2019	All	All	All	All
Cadillac	ATS	2018 - 2019	All	All	All	All
Cadillac	CT6	2018 - 2020	All	All	All	All
Cadillac	CTS	2018 - 2019	All	All	All	All
Cadillac	Escalade Models	2018 - 2020	All	All	All	All
Cadillac	XT4	2019 - 2022	All	All	All	All
Cadillac	XT5	2018 - 2022	All	All	All	All
Cadillac	XT6	2020 - 2022	All	All	All	All
Cadillac	XTS	2018 - 2019	All	All	All	All
Chevrolet	Blazer	2019 - 2022	All	All	All	All
Chevrolet	Camaro	2018 - 2022	All	All	All	All
Chevrolet	Corvette	2018 - 2019	All	All	All	All
Chevrolet	Equinox	2018 - 2022	All	All	All	All
Chevrolet	Impala	2018 - 2020	All	All	All	All
Chevrolet	Malibu	2018 - 2022	All	All	All	All
Chevrolet	Silverado	2018 - 2021	All	All	All	All
Chevrolet	Silverado 1500 (LTD, RPO J21, 12th VIN Digit = 4 or less)	2022	All	All	All	All
Chevrolet	Silverado 2500HD/3500HD	2022	All	All	All	All
Chevrolet	Suburban	2018 - 2020	All	All	All	All
Chevrolet	Tahoe	2018 - 2020	All	All	All	All
Chevrolet	Traverse	2018 - 2022	All	All	All	All
Chevrolet	Trax	2020 - 2022	All	All	All	All
GMC	Acadia	2018 - 2022	All	All	All	All
GMC	Sierra	2018 - 2021	All	All	All	All
GMC	Sierra 1500 (Limited, RPO J21, 12th VIN Digit = 4 or less)	2022	All	All	All	All

Brand:	Model:	Model Years:	VIN:		Engine:	Transmissions:
			from	to		
GMC	Sierra 2500HD/3500HD	2022	All	All	All	All
GMC	Terrain	2018 - 2022	All	All	All	All
GMC	Yukon Models	2018 - 2020	All	All	All	All

Involved Region or Country	North America
Condition	<p>Some customers may comment on the following conditions when the ambient temperature is below 40 degrees F:</p> <ul style="list-style-type: none"> <li>• Dead battery/required jump start</li> <li>• Slow crank</li> <li>• Battery low state of charge, and if equipped, Auto Start/Stop inoperative</li> <li>• IPC backlighting turning on intermittently while the vehicle should be asleep</li> <li>• Keyless or passive entry/start inoperative</li> </ul> <p>These concerns are not easily duplicated in the service bay or with temperatures above 40 degrees F.</p> <p><b>Note: The condition is intermittent and ONLY occurs when the vehicle has been outside overnight or longer and the ambient air temperature is below 40F for extended periods of time.</b></p>
Cause	<p>These conditions may be due to a low battery state of charge that is being caused by one or more modules waking up the Low Speed GM LAN Bus. It has been found that the Seat Memory Control Module (SMCM) could inadvertently wake up the Low Speed GM LAN Bus when the ambient air temperature is below 40 degrees F. This condition could apply to all SMCM a vehicle is equipped with like: Driver K40, Passenger K40P, Left Rear K40LR and/or Right Rear K40RR.</p> <p><b>Note: Some vehicles without memory seats still could have a SMCM to control a Safety Alert Seat RPO HS1, example vehicle 2021 GMC Acadia.</b></p>

Correction:

Before any in depth diagnosis is performed, question the customer or inspect the vehicle for any type of aftermarket equipment. If no aftermarket equipment is found, try to duplicate the conditions by leaving the vehicle outside overnight in temperatures below 40 degrees F.

**Note: Temperatures below 40 degrees F is critical to reproducing the condition.**

Perform all steps as appropriate in the Battery Electrical Drain/Parasitic Load Test procedure in Service Information. If an excessive battery draw is duplicated, as part of the Circuit/System Testing procedure, remove the fuse(s) that powers the SMCM. Wait several minutes to see if the vehicle will return to an acceptable battery draw level. If so, replace the appropriate SMCM. This condition could apply to all SMCM a vehicle is equipped with like: Driver K40, Passenger K40P, Left Rear K40LR and/or Right Rear K40RR.

**Note: There may be more than one fuse which powers the SMCM.**

If the battery draw does not return to an acceptable level with the SMCM fuse(s) removed, then continue with normal SI diagnostics.

Warranty Information

For vehicles repaired under the Bumper-to-Bumper coverage (Canada Base Warranty coverage), use the appropriate labor operation for which Seat Memory Control Module is replaced. Reference the Applicable Warranties section of Investigate Vehicle History (IVH) for coverage information.

Additional SI Keywords

B1325 C0800 B1517 cold cool parasitic

Version History

Version2	5
Modified	06/01/2020 - Created on. 02/17/2021 - Updated to add the Buick Enclave. 03/25/2021 - Update to Model list 02/14/2022 - Update to Model Years 05/09/2022 - Update the cause to add a Note.



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