



Service Bulletin

Bulletin No.: 22-NA-203

Date: April, 2024

TECHNICAL

Subject: Check Engine Lamp Illuminated on Driver Information Center (DIC) with DTC P0451 Set

Brand:	Model:	Model Year:		VIN:		Engine:	Transmission:
		from	to	from	to		
Buick	Envision	2021	2024			LAH, LSY or LXH	
Cadillac	XT4	2019					

Involved Region or Country	North America, Europe, Russia, Middle East, Israel, Palestine, Japan, Cadillac Korea (South Korea)
Condition	Some customers may comment on a malfunction indicator lamp illuminated. During diagnosis some technicians may find DTC P0451 (Fuel Tank Pressure Sensor Performance) set in the ECM.
Cause	Liquid fuel can enter vapor lines following a customer fuel overfill. If a customer goes beyond three clicks at the fuel station fill, liquid fuel could enter the vapor line through the recirculation line. The liquid fuel can block the line and cause issues with the fuel tank pressor sensor readings.
Correction	Technicians should inspect the vent lines at the fuel tank for any exterior damage and drain any liquid fuel and/or contamination from the evap vent lines and then clear the DTC. It will also be necessary to educate the three-click fuel fill procedure with the customer.

Service Procedure

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.

1. Raise the vehicle.
2. Disconnect the 3 vapor lines near the gas tank.

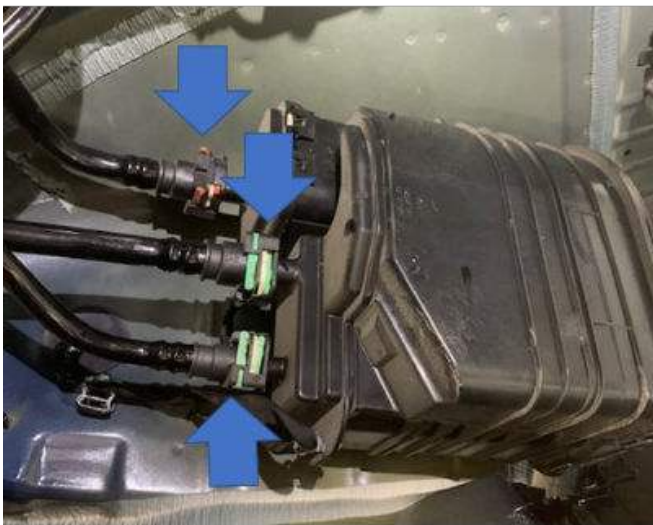


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3. Drain any liquid fuel from each of the 3 vapor lines.
4. Lower the vehicle and remove the RH rear wheel and RH rear wheel liner. Refer to the proper replacement procedure within Si.



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5. Disconnect the vapor lines from the evap canister.



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6. Lightly blow shop air into the two vapor lines shown below (w/ green quick connectors) to clear the lines of any liquid fuel.
7. Reconnect all of the vapor lines at the canister.
8. Reinstall the RH wheel liner and the RH rear wheel.
9. Reconnect the vapor lines under the vehicle.
10. Lower the vehicle.
11. Clear DTC's

Note: Educate the customer about attempting to overfill the system during the fueling process and not to exceed three-clicks at the fuel pump.

Parts Information

No parts are required for this repair.

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
4088788*	Clear Restriction From Evap System Vent Lines	0.6 hr
*This is a unique Labor Operation for Bulletin use only.		

Version	2
Modified	Released October 17, 2022 Revised April 17, 2024 – Added 2024 Model Year.