



Service Bulletin

Bulletin No.: 21-NA-014

Date: January, 2021

TECHNICAL

Subject: Intermittent Malfunction Indicator Lamp (MIL) Illuminated - DTC P146F Set

Brand:	Model:	Model Year:		VIN:		Engine:	Transmission:
		from	to	from	to		
Buick	Encore GX	2020	2020			LIH	
Chevrolet	Trailblazer (Vin M)	2021	2021				

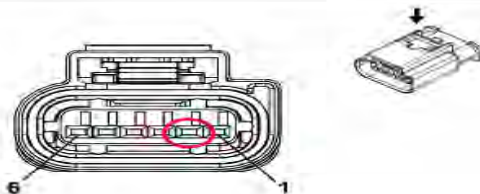
Involved Region or Country	North America
Condition	Some customers may comment that the MIL is illuminated Some technicians may find DTC P146F (EVAP Purge System Pressure Sensor Performance) set in the Engine Control Module (ECM).
Correction	If P146F is set, relocation of the Evaporative Emission Purge Pump ground needs to be completed. Note: As the concern is very intermittent, vehicle may go weeks and/or hundreds of miles between occurrences. It is advised that the dealer drive the vehicle for a few days. If P146F does not reset, return vehicle to customer for evaluation.

Service Procedure

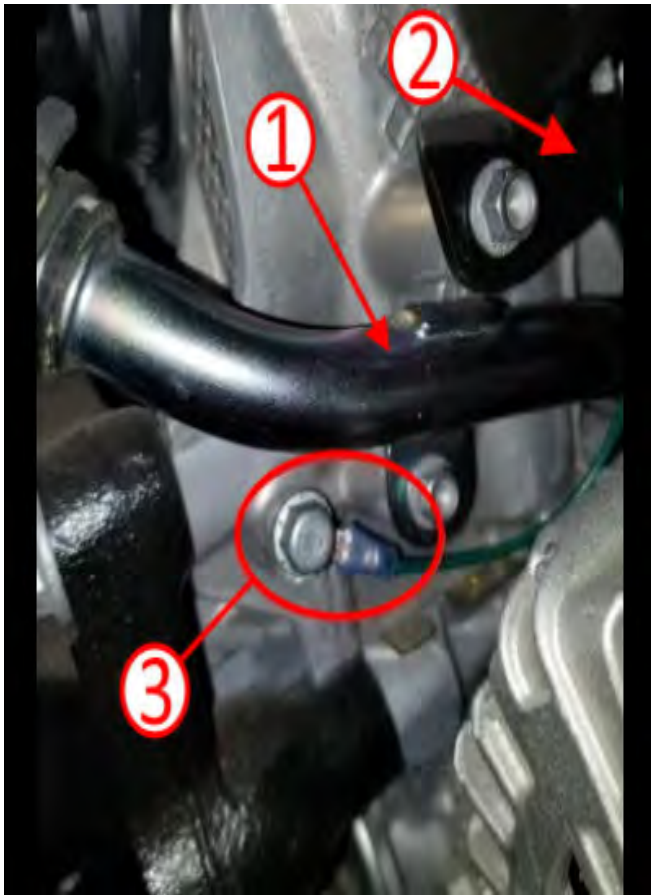
Note: Do Not replaced the G58 Emission Purge Pump, Q12 Evaporative Emissions Purge Solenoid Valve, EVAP Canister & Fuel Tank Assembly until the ground wire has been relocated.

1. Locate the Evaporative Emission Purge Pump electrical connector and disconnect.

2. Measure the resistance drop from G58: Evaporative Emission Purge Pump terminal 2, to the negative terminal at the battery.
 - Resistance as high as a 2.3Ω was found on ckt 580 from terminal 2 of the G58 Emission Purge Pump to Battery negative post, (.11 mV drop.)
3. Cut the circuit 580 (BK/GN) approximately 2" back from the G58 Emission Purge Pump electrical connector.



5710159



4. Strip the insulation from the wire of the ground, crimp in eyelet connector.
5. Install the Low Reference circuit onto its own ground, to a threaded hole just below the coolant pipe (1) and Emission Purge Pump Bracket (2) directly to the engine block (3).
6. Recheck the resistance drop.
 - The resistance from G58 Evaporative Emission Purge Pump terminal 2 to battery negative, now had .4Ω of resistance (.02mV).

Parts Information

Causal Part	Description	Part Number	Qty
N/A	Ground Eyelet	Obtain locally	1

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.

5710215

Labor Operation	Description	Labor Time
5486108*	Relocate The G58: Evaporative Emission Purge Pump Ground Wire	1.0 hr

*This is a unique Labor Operation for Bulletin use only.

Version	1
Modified	Released January 25, 2021

