



Preliminary Information

PIT5781 Service Headlamp message on the DIC

Models

Brand:	Model:	Model Years:	VIN:		Engine:	Transmissions:
			from	to		
Buick	Envision	2021	All	All	All	All

Involved Region or Country:	China - SGM
Additional RPO/s:	TR7 (w/o F45)
Condition:	Customers see Service Headlamp message on the DIC.
Cause:	This issue will result in the Adaptive Forward Lighting (AFL) setting DTCs C103D.11, C103D.16 and C103D.17 against the position sensor input and will command headlamps into failsafe. The chassis position sensors have a +/- 10% tolerance on the carrying frequency (the frequency that the Pulse Width Modulation (PWM) is determined within), the AFL allows for only +/- 5% tolerance. Therefore, a sensor that is outside of the +/- 5% tolerance, will result in the AFL setting DTCs against the position sensor input and will command headlamps into failsafe. This seems to be temperature sensitive, the sensor reads higher mainly on cold starts and when it is a colder day may linger longer. The AFL will recover as soon as the sensors come back within the +/- 5 AFL tolerance, normal leveling will resume, DTCs will go to history, and DIC will go away – will not require a new ignition cycle to recover.

Correction:

Reprogram the AFL Module with software part number 84993226.

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:
Use Published Labor Operation	Reprogram the AFL Module	Use Published Labor Time

Version History

Version	1
Modified	09/28/2020 - Created on.

