Preliminary Information

PIT5638B Service Brake Assist Message with DTC C0021, C058E and/or C05B0

Product Investigation Review Required

Models

Brand:	Model:	Model Years:	VIN:		Engine:	Transmissions:
			from	to		
Chevrolet	Silverado 1500 (New Model)	2019	All	All	All	All
GMC	Sierra 1500 (New Model)	2019	All	All	All	All

Involved Region or Country	North America
Condition	In some rare situations, a customer may comment on a "Service Brake Assist" message and they may have a hard brake pedal or increased effort is needed to depress the brake pedal, which may extend stopping distances. When checking for DTC's, a current or history C0021, C05B0, and/or C058E will be set in the K160 Brake System Control Module (formerly known as the EBCM). When the EBCM DTCs are set, it will request the SES MIL and the ECM will set DTC P25A2 (Brake System Control Module Requested MIL Illumination).
Cause	This issue could be caused by an internal software calibration.

Correction:

Engineering has released updated Brake System Control Module calibrations to address this condition. Reprogram the K160 Brake System Control Module with the latest calibrations currently available in Tis2Web, per Service Update N192210460.

Important: Stable battery voltage is critical during programming. Any fluctuation, spiking, over voltage or loss of voltage will interrupt programming. Install the EL-49642 SPS Programming Support Tool to maintain system voltage. If not available, connect a fully charged 12 V jumper or booster pack disconnected from the AC voltage supply. DO NOT connect a battery charger.

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	Trans. Type	Net Item
9104166*	Brake System Control Module (BSCM) Reprogramming with SPS	0.3hr	ZFAT	N/A
9104341*	Verified Module Software or Calibration Level: Module Programmed with Same Level Software or Calibration.	0.2hr		

* To avoid warranty transaction rejections, the SPS Warranty Claim Code must be entered when submitting this transaction. Note that if multiple modules are reprogrammed, all claim codes must be entered with a comma separating each code.

Version History

Version	3
Modified	10/29/2018 - Created on 12/19/2018 - Supersedes to update the Title, Condition, Cause, Recommendation, and Warranty Sections 3/14/2019 - Supersedes to update the Title, Condition, correction and warranty sections.

GENERAL MOTORS