INFORMATION

Subject: **Information on Available ECM Calibration to Compensate for Increased Engine Load for add-on Equipment Used in Certain Fleet Applications**

Brand:	Model:	Model Year:		VIN:		Engine:	Transmission:
		from	to	from	to		
Chevrolet	Express	2021	2021			6.6L RPO (L8T) & 4.3L (LV1)	
	LCF 3500/4500	2020	2021			L8T	
GMC	Savanna	2021	2021			6.6L RPO (L8T) & 4.3L (LV1)	

Involved Region or Country	United States and Canada
Additional Options (RPOs)	
Condition	Some customers may comment on when trying to run a carpet cleaning machine or similar aftermarket equipment that the engine RPM drops below the commanded value, which makes running the needed equipment difficult.
Cause	The cause of the condition may be the ECM not having enough airflow compensation to maintain the engine RPM level when certain types of high demand add-on equipment is in use.
Correction	To correct this condition, you will need to update the ECM software to activate this function. Please contact the Techline Customer Support Center (TCSC) (1-800-828-6860 English or 1-800-503-3222 French) to open a case and obtain a Vehicle Configuration Index (VCI) number. Advise the TCSC consultant that you need the calibration to activate the high idle feature for a fleet customer. **Note:** Vehicles repaired for the conditions outlined in this bulletin should not be considered warranty. Any warranty claims submitted with these conditions may be debited.

Service Procedure

Caution: Before downloading the update files, be sure the computer is connected to the internet through a network cable (hardwired). DO NOT DOWNLOAD or install the files wirelessly. If there is an interruption during programming, programming failure or control module damage may occur.

- Ensure the programming tool is equipped with the latest software and is securely connected to the data link connector. If there is an interruption during programming, programming failure or control module damage may occur.
- Stable battery voltage is critical during programming. Any fluctuation, spiking, over voltage or loss of voltage will interrupt programming. Install a GM Authorized Programming Support Tool to maintain system voltage. Refer to www.gmdesolutions.com for further information. 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.
- Follow the on-screen prompts regarding ignition power mode, but ensure that anything that drains excessive power (exterior lights, HVAC blower motor, etc) is off
- Please verify that the radio time and date are set correctly before inserting USB drive into vehicle for programming, otherwise an error will result..
- Clear DTCs after programming is complete. Clearing powertrain DTCs will set the Inspection/ Maintenance (I/M) system status indicators to NO.

Important: The service technician always needs to verify that the VIN displayed in the TLC left side drop down menu and the top center window match the VIN plate of the vehicle to be programmed prior to using Service Programming System 2 (SPS2) for programming or reprogramming a module.
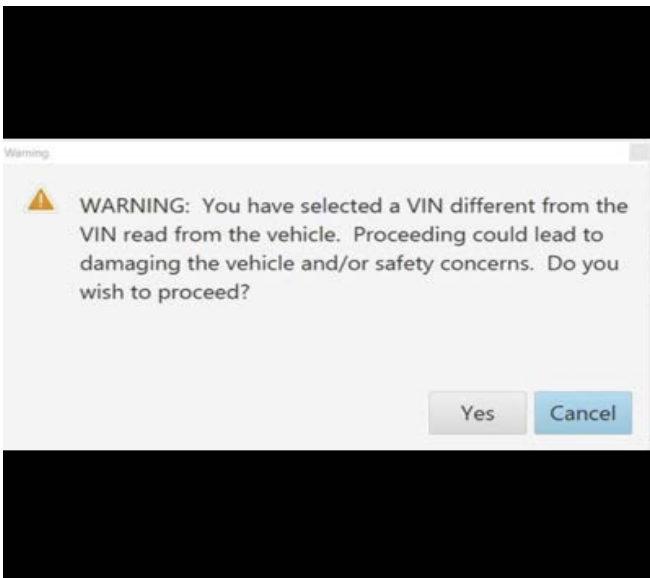
- For the TLC application, service technicians need to always ensure that the power mode (ignition) is "ON" before reading the VIN from the vehicle's VIN master module and that they do not select a VIN that is already in the TLC application memory from a previous vehicle.

- If the VIN that shows up in the TLC top center window after correctly reading the VIN from the vehicle does not match the VIN plate of the vehicle, manually type in the VIN characters from the vehicle VIN plate into the TLC top center window and use these for programming or reprogramming the subject module with the correct vehicle VIN and software and/or calibrations.

- The Engine Control Module (ECM) is the master module (for VIP vehicles) that TLC reads to determine the VIN of the vehicle. If the VIN read from the vehicle by TLC does not match the VIN plate of the vehicle, the ECM also needs to be reprogrammed with the correct VIN, software and calibrations that match the vehicle's VIN plate.

- The Body Control Module (BCM) is the master module (for GEM vehicles) that TLC reads to determine the VIN of the vehicle. If the VIN read from the vehicle by TLC does not match the VIN plate of the vehicle, the BCM also needs to be reprogrammed with the correct VIN, software and calibrations that match the vehicle's VIN plate.

Caution: Be sure the VIN selected in the drop down menu (1) is the same as the vehicle connected (2) before beginning programming.

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**Important:** If the vehicle VIN DOES NOT match, the message below will be shown

⚠ WARNING: You have selected a VIN different from the VIN read from the vehicle. Proceeding could lead to damaging the vehicle and/or safety concerns. Do you wish to proceed?

Yes   Cancel

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Important: Techline Connect and TIS2WEB screens shown above.

Important: If the same calibration/software warning is noted on the TLC or SPS Summary screen, select OK and follow screen instructions. After a successful programming event, the WCC is located in the Service Programming System dialogue box of the SPS Summary screen. No further action is required. Refer to the Warranty section of the bulletin.

1. Reprogram the Engine Control Module. Refer to *K20 Engine Control Module: Programming and Setup*.
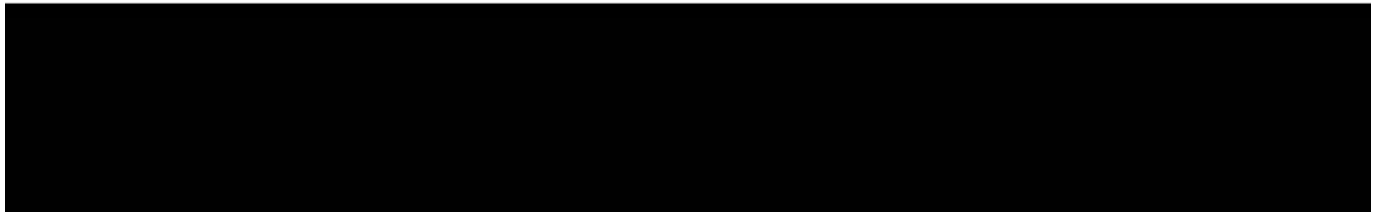
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Note: The screenshots above are an example of module programming and may not be indicative of the specific module that is being programmed. Module selection and VIN information have been blacked out.

Important: To avoid warranty transaction rejections, you **MUST** record the warranty claim code provided on the Warranty Claim Code (WCC) screen shown above on the job card. Refer to callout 1 above for the location of the WCC on the screen.

2. Record Warranty Claim Code on job card for warranty transaction submission.

Version	4
Modified	Released June 28, 2021
	Revised August 10, 2021 — Updated Subject, Correction Section and Service Procedure with current programming procedure.
	Revised September 08, 2021 — Updated Subject, added note to Correction Section, and removed Warranty Information.
	Revised March 31, 2022– Adding 2020 and 2021 Chevrolet LCF and updated programming procedure

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