



# Service Bulletin

Bulletin No.: 24-NA-167

Date: October, 2024

## TECHNICAL

**Subject: Shake and/or Shudder During Steady Speed and/or Light Throttle Acceleration Between 25 and 50 MPH (40 and 80 KM/H)**

Brand:	Model:	Model Year:		VIN:		Engine:	Transmission:
		from	to	from	to		
Cadillac	Escalade	2021	2022			L87, LM2	MHS, MQC
	Escalade ESV						
Chevrolet	Silverado 1500 LTD (RPO J21, VIN Digit 5 = W / Y)	2022	2022			L84, L87	MHS, MHT, MI2, MQC, MQB
	Silverado 1500 New (RPO J22, VIN Digit 5 = A / D)						
	Silverado 1500	2023	2023			L84, L87	MHS, MHT, MI2
	Suburban	2021	2022			L84, L87, LM2	MHS, MQC
	Tahoe						
GMC	Sierra 1500 Limited (RPO J21, VIN Digit 5 = 8 / 9)	2022	2022			L84, L87	MHS, MHT, MI2, MQC, MQB
	Sierra 1500 New (RPO J22, VIN Digit 5 = H / U)						
	Sierra 1500	2023	2023			L84, L87	MHS, MHT, MI2
	Yukon	2021	2022			L84, L87, LM2	MHS, MQC
	Yukon XL						

<b>Involved Region or Country</b>	North America, Middle East, Chile (West), Colombia (West), Ecuador (West), Peru (West), Thailand (ASEAN)
<b>Additional Options (RPOs)</b>	
<b>Condition</b>	Some customers may comment on a shake and/or shudder during steady speed and/or Light Throttle Acceleration Between 25 and 50 MPH (40 and 80 KM/H).
<b>Cause</b>	The cause of the condition may be the Transmission Calibration not being up to date.
<b>Correction</b>	Check for the latest transmission calibration/software in the Transmission Control Module (TCM) and update as needed. <b>Important:</b> DO NOT reflash the same calibration/software if the latest is already installed in the TCM. <b>Note:</b> TSB 22-NA-015 provides diagnostic tips shake/shudder vibration.

### 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.

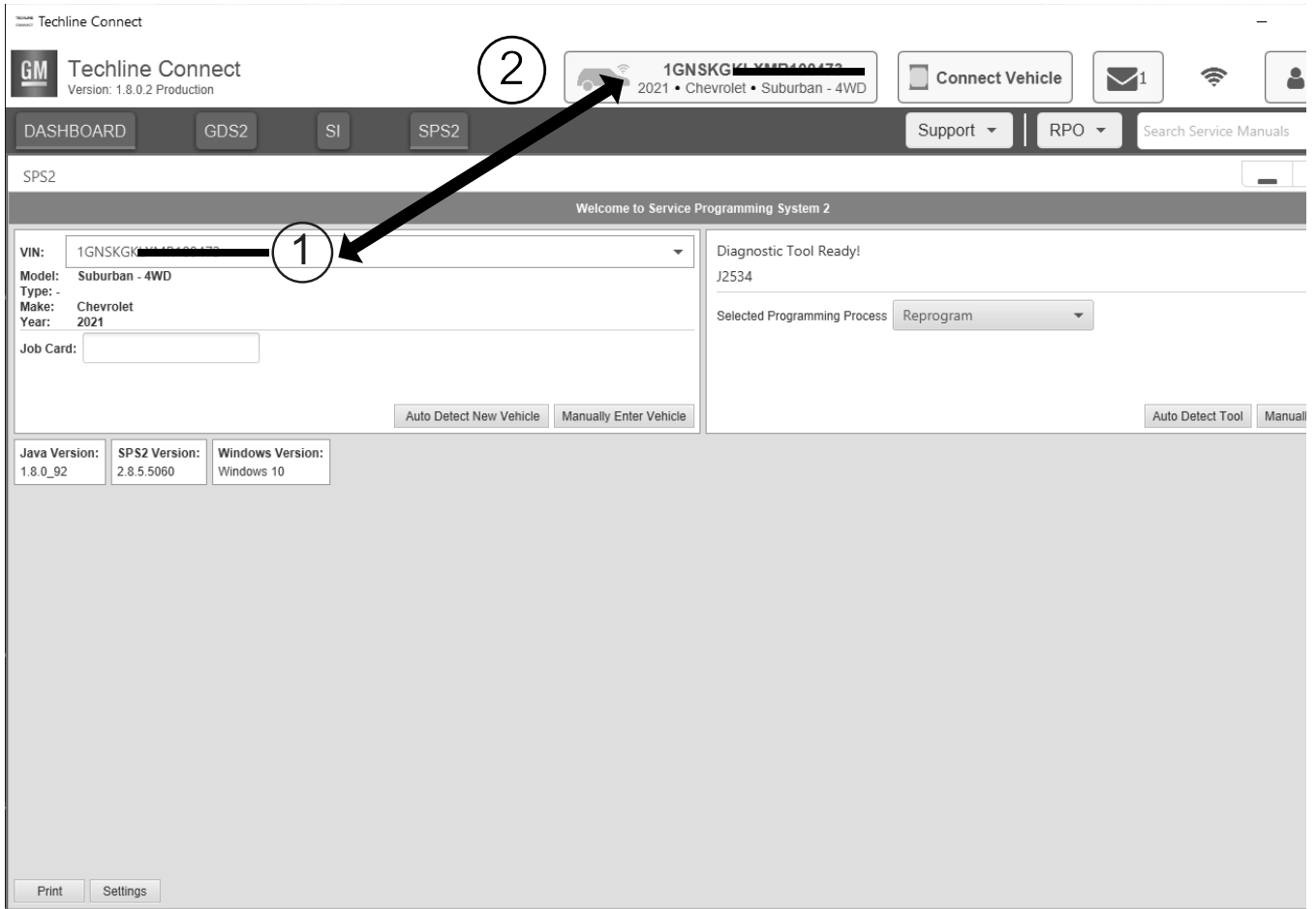
**Caution:** Before downloading the update files, be sure the computer is connected to the internet through a network cable (hardwired). DO NOT DOWNLOAD or install the files wirelessly. If there is an interruption during programming, programming failure or control module damage may occur.

- 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](http://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.
- 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.

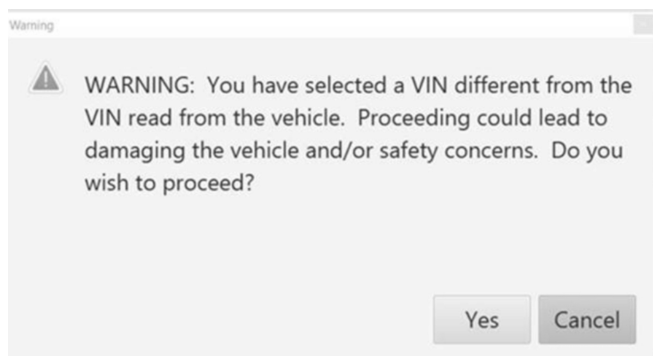
- For the TLC application, service technicians need to always ensure that the power mode (ignition) is "ON" before reading the VIN from the vehicle's VIN master module and that they do not select a VIN that is already in the TLC application memory from a previous vehicle.
- If the VIN that shows up in 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



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The screenshot shows the Techline Connect software interface. At the top, there is a navigation bar with 'DASHBOARD', 'GDS2', 'SI', and 'SPS2' buttons. A search bar for 'Search Service Manuals' is on the right. Below this is a 'Programming' window with a table of controllers and a dialog box.

Controller	ID	Current #	Description
K17	1	84820771	
K17	2	84820790	
K17	3	84820797	84820797 <del>Electronic Brake Diagnostic Calibration</del>
K17	4	84820801	84820801 <del>Function Enable Calibration</del>
K17	5	84820808	84820808 <del>Driver mode brake calibration</del>
K17	6	84820819	84820819 <del>Pre-Drive Calibration</del>
K17	7	84820825	84820825 <del></del>

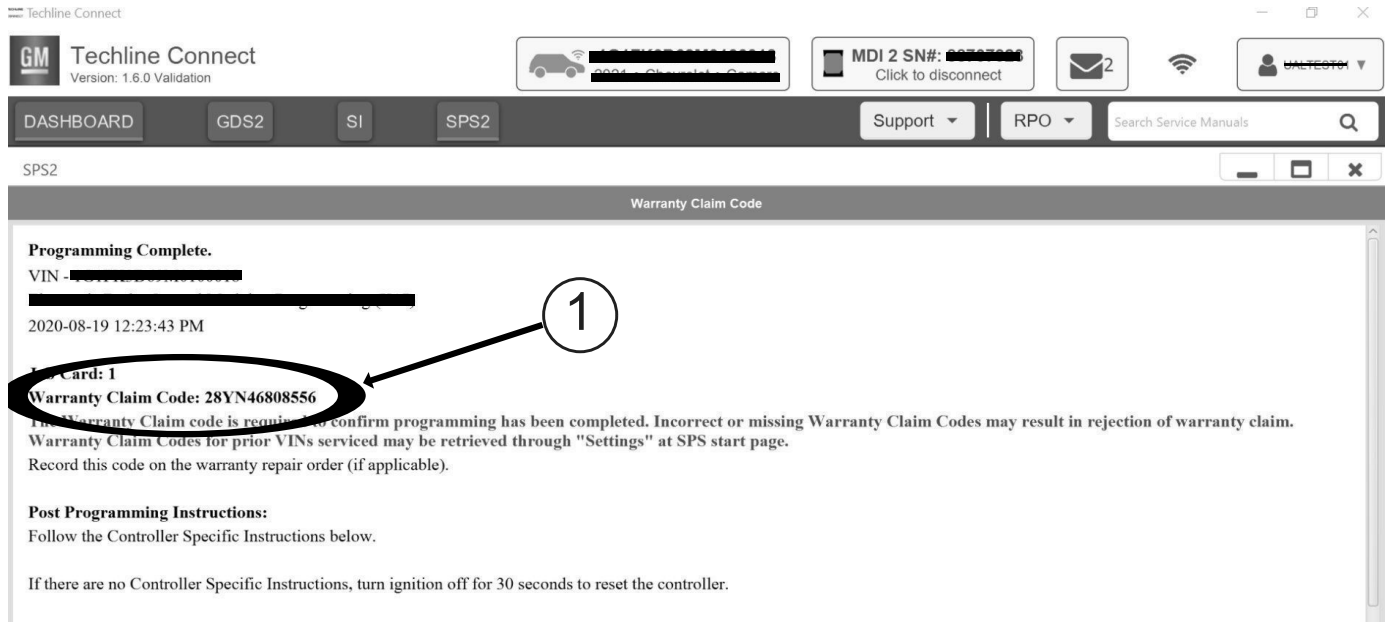
The dialog box displays the following text: "M4521: You are attempting to reprogram with the same calibration. Select OK to continue, Cancel to Stop!" with "OK" and "Cancel" buttons.

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**Important:** Techline Connect screens shown above.

**Important:** If the same calibration/software warning is noted on the TLC 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 Transmission Control Module. Refer to *K71 Transmission Control Module: Programming and Setup*.



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**Note:** The screenshot above is 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.

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

**Warranty Information**

For vehicles repaired under the Emission coverage, use the following labor operation. Reference the Applicable Warranties section of Investigate Vehicle History (IVH) for coverage information.

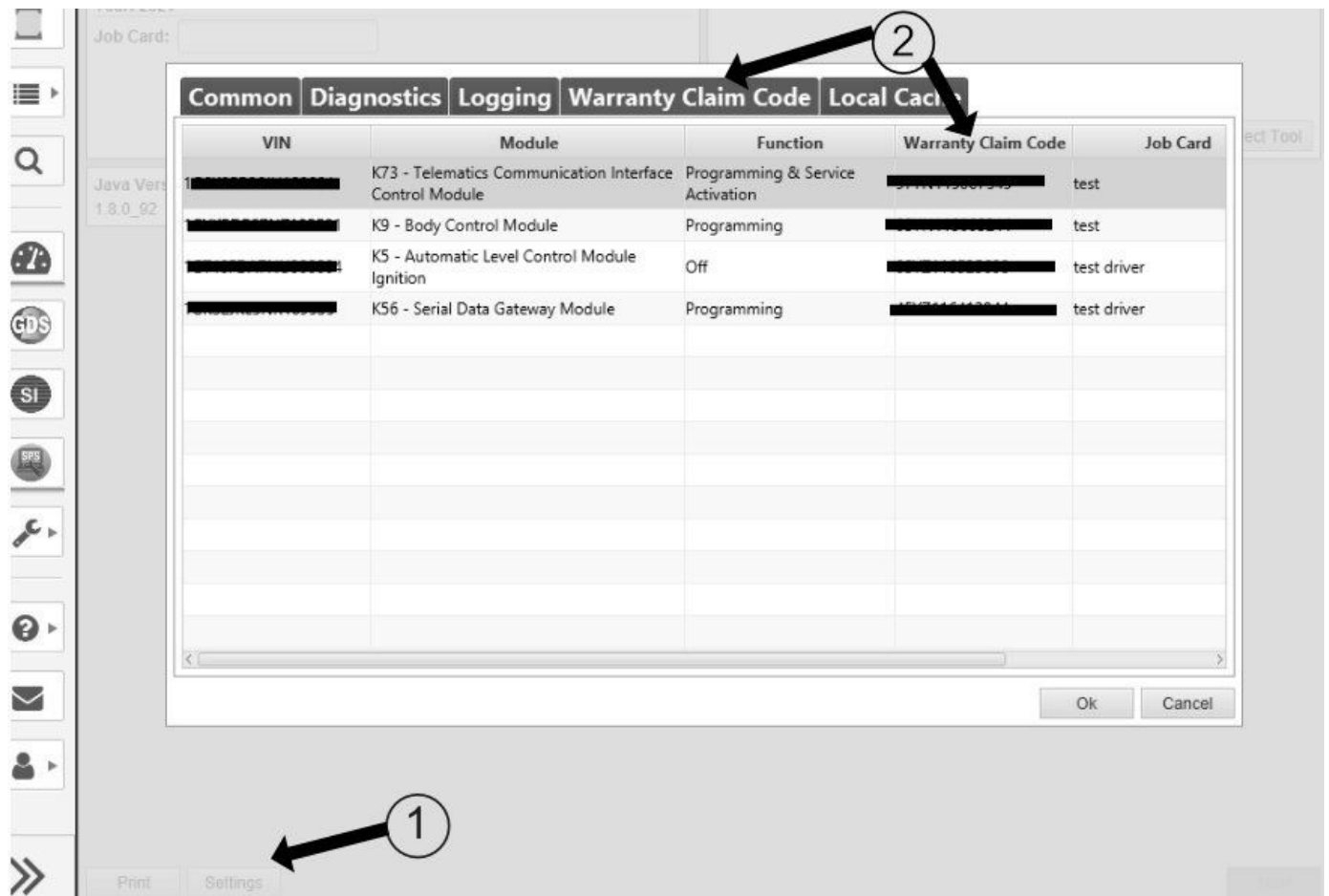
Labor Operation	Description	Labor Time
*2887980	Transmission Control Module (TCM) Reprogram to Correct Shake and/or Shudder	0.5 hr

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

**Important:** \*\*To avoid warranty transaction rejections, carefully read and follow the instructions below:

Labor Operation	Description	Labor Time
<p>Labour Time [Top]</p> <p>Labour Operation Code:</p> <p>Additional labour op code information:</p> <p style="text-align: right;">SPS Warranty Claim Code:</p>		
<p>6125814</p>		
<ul style="list-style-type: none"> <li>The Warranty Claim Code must be accurately entered in the "Warranty Claim Code" field of the transaction.</li> <li>When more than one Warranty Claim Code is generated for a programming event, it is required to document all Warranty Claim Codes in the "Correction" field on the job card. Dealers must also enter one of the codes in the "Warranty Claim Code" field of the transaction, otherwise the transaction will reject. It is best practice to enter the FINAL code provided by SPS2.</li> </ul>		

**Warranty Claim Code Information Retrieval**



If the Warranty Claim Code was not recorded on the Job Card, the code can be retrieved in the SPS2 system as follows:

1. Open TLC on the computer used to program the vehicle.
2. Select and start SPS2.
3. Select Settings (1).
4. Select the Warranty Claim Code tab (2).

The VIN, Warranty Claim Code and Date/Time will be listed on a roster of recent programming events. If the code is retrievable, dealers should resubmit the transaction making sure to include the code in the SPS Warranty Claim Code field.

<b>Version</b>	3
<b>Modified</b>	Released August 27, 2024 Revised September 24, 2024 – Added the 2022 and 2023 Chevrolet Silverado and GMC Sierra 1500 truck models. Revised October 01, 2024 – Added the 2022 Cadillac Escalade, Chevrolet Suburban, Tahoe, GMC Yukon, and Yukon XL.

