



Service Bulletin

Bulletin No.: 22-NA-237

Date: April, 2024

TECHNICAL

Subject: Service Cluster Message and DTC U3000 Set

Brand:	Model:	Model Year:		VIN:		Engine:	Transmission:
		from	to	from	to		
Buick	Envision	2022	2023				

Involved Region or Country	North America
Additional Options (RPOs)	Equipped with DISPLAY INSTRUMENT-DRIVER INFO ENHANCED (MULTI COLOR ENHANCED GRAPHIC) UHS
Condition	Some customers may experience a Service Instrument Cluster Message. Technician may find DTC U3000-49 set current or in recent history.
Cause	The cause of the condition may be a software anomaly.
Correction	Reprogram the Instrument Cluster with the latest software available. Due to the fact that we are going backwards one version of software level, it will be necessary to clear the cache in SPS2. Failure to clear cache may lead to the installation of the later software version that has the issue.

Service Procedure

How to clear cache in SPS2:

The screenshot displays the SPS2 interface with the following details:

- Header:** SPS2, Welcome to Service Programming System 2
- VIN:** 3GCUDEETXNG567180
- Model:** Silverado 1500 - 4WD New (RPO J22, VIN Digit 5 - D)
- Type:** -
- Make:** Chevrolet
- Year:** 2022
- Job Card:** [Empty field]
- Buttons:** Auto Detect New Vehicle, Manually Enter Vehicle
- System Information:**
 - Java Version: 1.8.0_92
 - SPS2 Version: 2.16.9.5296
 - Windows Version: Windows 10
- Right Panel:** Diagnostic Tool Ready! J2534, Selected Programming Process [Repr]
- Bottom Buttons:** Print, Settings

6212722

- Click Settings > Click Local Cache Tab

Common	Diagnostics	Logging	Warranty Claim Code	Local Cache
Cache Size:	<input type="text" value="1000"/>	Megabytes		
Location:	<input type="text" value="C:\Users\VZZ4N7\sps\spsCache"/>			<input type="button" value="Select Location"/>
Clear Cache	<input type="button" value="Clear"/>			

6212721

- Click Clear Cache > then Ok

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 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.

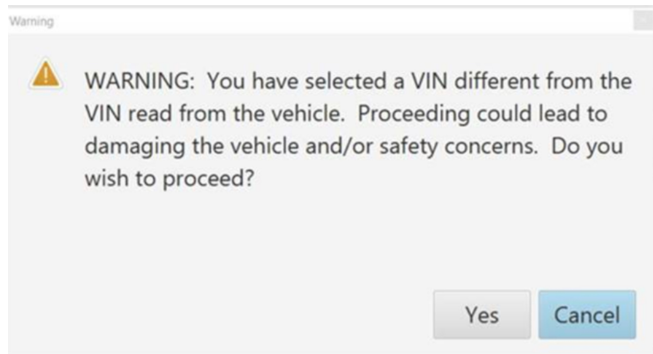
- The Body Control Module (BCM) is the master module (for GEM vehicles) that TLC reads to determine the VIN of the vehicle. If the VIN read from the vehicle by TLC does not match the VIN plate of the vehicle, the BCM also needs to be reprogrammed with the correct VIN, software and calibrations that match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

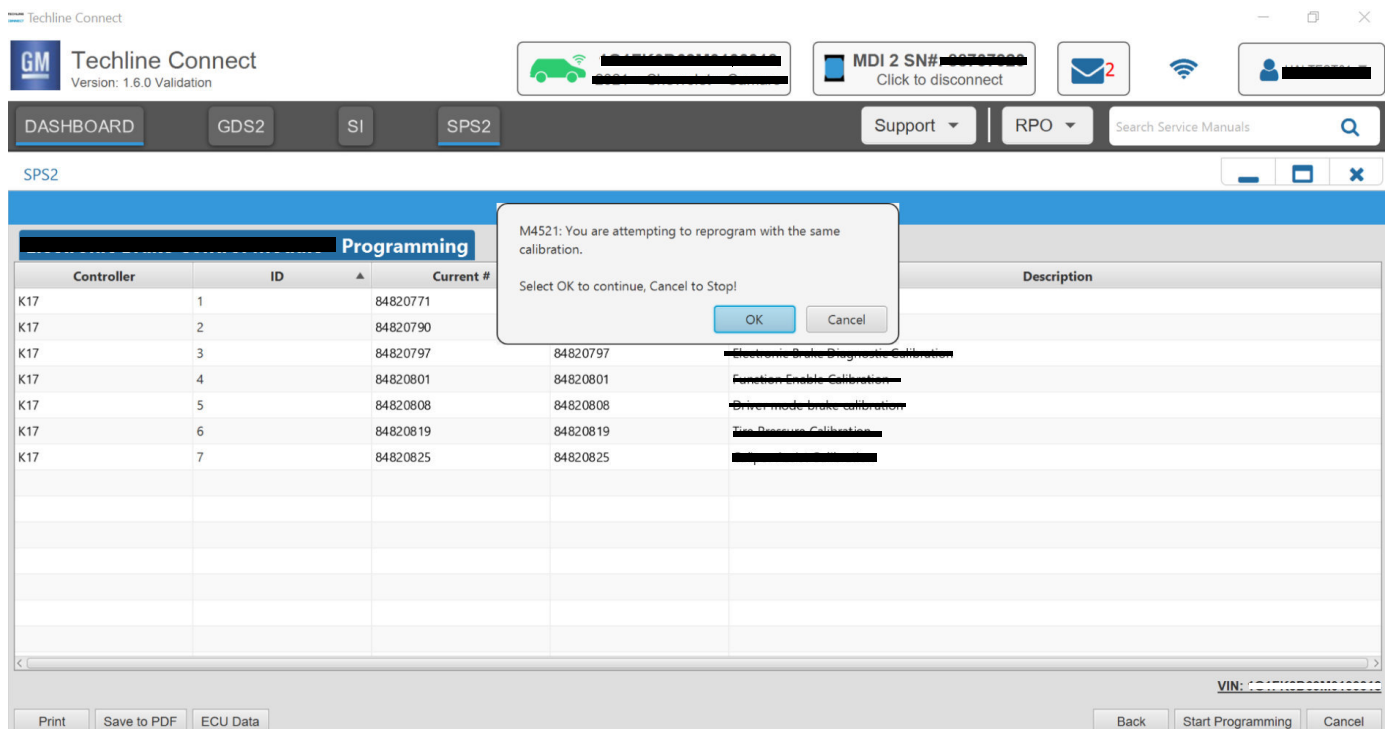
The screenshot displays the Techline Connect SPS2 interface. At the top, the GM logo and 'Techline Connect Version: 1.8.0.2 Production' are visible. The main navigation bar includes 'DASHBOARD', 'GDS2', 'SI', and 'SPS2'. A 'Connect Vehicle' button is present, along with a notification icon showing '1' and a user profile icon. The central area is titled 'Welcome to Service Programming System 2'. On the left, a 'VIN:' dropdown menu is highlighted with a circled '1', showing the selected VIN '1GNSKGM1YR160472'. Below it, vehicle details are listed: 'Model: Suburban - 4WD', 'Type: -', 'Make: Chevrolet', and 'Year: 2021'. A 'Job Card:' field is also present. On the right, the 'Diagnostic Tool Ready!' status is shown as 'J2534', and the 'Selected Programming Process' is set to 'Reprogram'. At the bottom, system information is displayed: 'Java Version: 1.8.0_92', 'SPS2 Version: 2.8.5.5060', and 'Windows Version: Windows 10'. A circled '2' with an arrow points to the 'Connect Vehicle' button, which also displays the VIN '1GNSKGM1YR160472' and '2021 • Chevrolet • Suburban - 4WD'. Buttons for 'Auto Detect New Vehicle', 'Manually Enter Vehicle', 'Auto Detect Tool', and 'Manual' are located at the bottom right. 'Print' and 'Settings' buttons are at the bottom left.

5743643

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



5877000

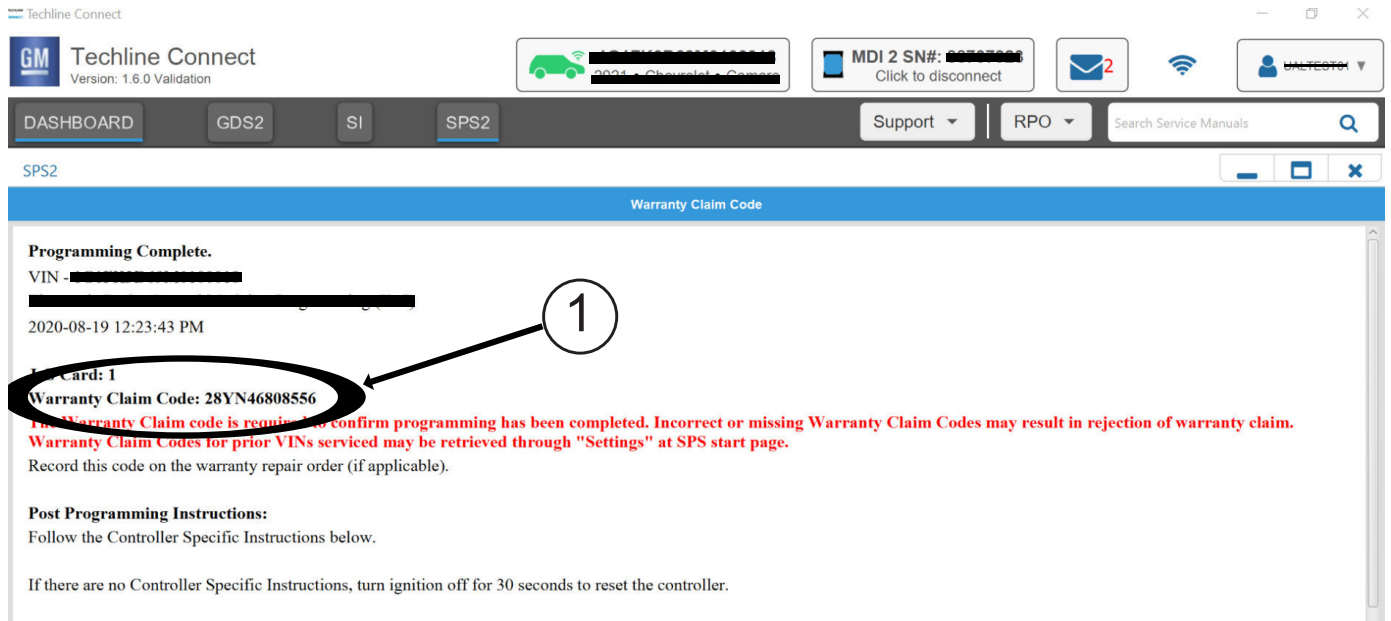


Important: Techline Connect and TIS2WEB screens shown above.

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.

5644477

1. Reprogram the Instrument Cluster. Refer to *P16 Instrument Cluster: Programming and Setup in SI*.



5644478

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.

Warranty Information

For vehicles repaired under warranty, use:

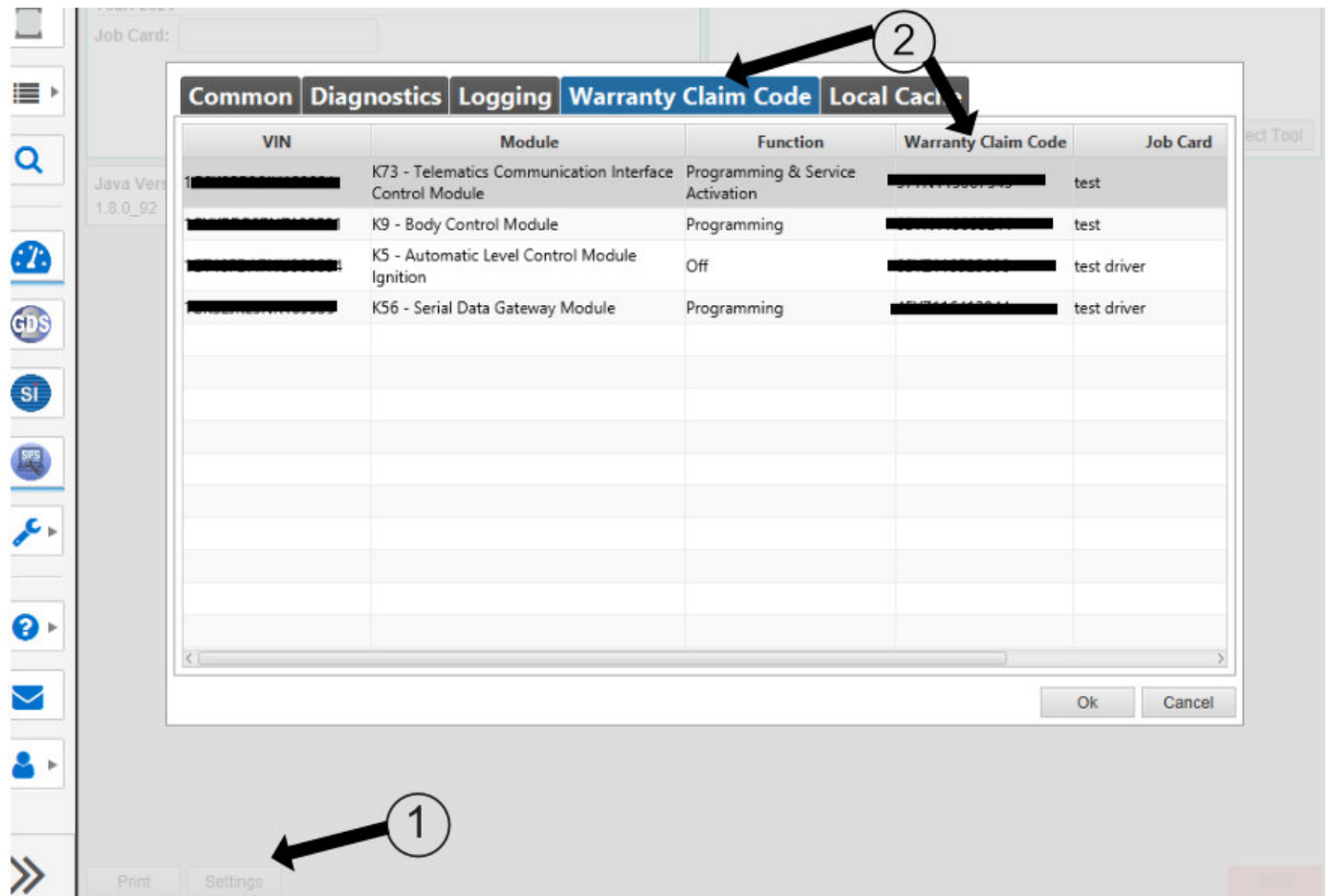
Labor Operation	Description	Labor Time
*2889098	Reprogram Instrument Cluster for Service Cluster Message and DTC Set	0.6 hr

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

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

- The Warranty Claim Code must be accurately entered in the “SPS Warranty Claim Code” field of the transaction.
- 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 “SPS Warranty Claim Code” field of the transaction, otherwise the transaction will reject. It is best practice to enter the FINAL code provided by SPS/SPS2.

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.

Version	3
Modified	Released November 23, 2022 Revised December 02, 2022 —Added clear cache steps under Service Procedure and added a unique Labor Operation under Warranty Information. Revised April 22, 2024 - Updated labor operation time for graphics programming time under Warranty Information.

