GLOBAL SAFETY FIELD INVESTIGATIONS DCS6453 URGENT - DISTRIBUTE IMMEDIATELY

- Date: February 17, 2023
- Subject: REVISION: N212355140-01 Service Update Diesel Engine Control Module Diagnostics Updated Warranty Period, Title, and Condition Statement
- Models: 2021-2022 Cadillac Escalade, Escalade ESV 2021-2022 Chevrolet Suburban 2021-2022 Chevrolet Tahoe 2021-2022 GMC Yukon, Yukon XL Equipped with 6-cylinder, 3.0L Diesel engine (RPO LM2)
- To: All General Motors Dealers

This bulletin has been revised to update the warranty period, the title of the bulletin, and the condition statement. Please discard all previous copies of bulletin N212355140.

END OF MESSAGE GLOBAL SAFETY FIELD INVESTIGATIONS



Release Date: February 2023

Revision: 01

RevisionThis bulletin has been revised to update the warranty period, the title of the bulletin, and the conditionDescription:Statement. Please discard all previous copies of bulletin N212355140.

 Attention:
 This service update includes vehicles in dealer inventory and customer vehicles that return to the dealership for any reason. This bulletin will expire at the end of the involved vehicle's Emission Select Component Limited Warranty period.

 Involved vehicles will be repaired either through dealer repairs as described in this bulletin or through over the air (OTA) programming. Dealers can and should perform the procedure in this bulletin on any vehicle with an "open" status on the Investigate Vehicle History (IVH) screen in GM Global Warranty Management system. Due to the fact that vehicles will be closed in IVH through successful OTA

			Model Year				
Make	Model	From	То	RPO	Description		
Cadillac	Escalade, Escalade ESV						
Chevrolet	Suburban	2024	2022	1.140	Coulinder 2.01 Dissel engine		
Chevrolet	Tahoe	2021	2022	LM2	6-cylinder, 3.0L Diesel engine		
GMC	Yukon, Yukon XL						

programming, dealers should always check the status in IVH before performing any vehicle repairs.

Involved vehicles are marked "Open" on the Investigate Vehicle History screen in GM Global Warranty Management system. This site should always be checked to confirm vehicle involvement prior to beginning any required inspections and/or repairs.

Condition	Certain 2021 and 2022 model year Cadillac Escalade, Escalade ESV, Chevrolet Suburban, Chevrolet							
	Tahoe and GMC Yukon, Yukon XL vehicles, equipped with the 6-cylinder, 3.0L diesel engine (RPO LM2)							
	may have a condition where the engine control module calibrations can be enhanced to improve the							
	accuracy of certain diagnostic tests.							
Correction	Dealers are to reprogram the engine control module.							

Parts

No parts are required for this repair.

Warranty Information

Labor Operation	Description	Labor Time	Trans. Type	Net Item
9106513*	Verified Module Software or Calibration Level: Module Is Programmed with Same Level Software or Calibration	0.2	ZFAT	N/A
9106514*	Engine Control Module Reprogramming with SPS	0.4		

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

Warranty Claim Code:
S

6125814

• The Warranty Claim Code from the programming event must be accurately entered in the "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 "Warranty Claim Code" field of the transaction, otherwise the transaction will reject. It is best practice to enter the FINAL code provided by SPS2.

	VIN	Module	Function	Warranty Claim Code	Job Card	ect Tool
Ver: 1		K73 - Telematics Communication Interface Control Module	Activation		test	
92		K9 - Body Control Module	Programming		test	
-		K5 - Automatic Level Control Module Ignition	Off		test driver	
		K56 - Serial Data Gateway Module	Programming		test driver	
-						
K.				1	>	
					Ok Cancel	
<u> </u>						

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.

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.

Note: Carefully read and follow the instructions below.

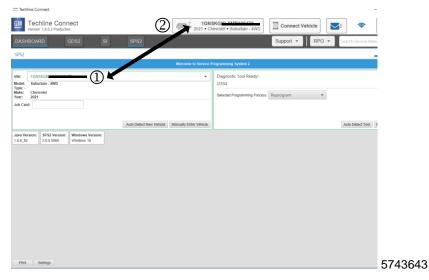
- Ensure the programming tool is equipped with the latest software and is securely connected to the data link connector. If there is an interruption during programming, programming failure or control module damage may occur.
- Stable battery voltage is critical during programming. Any fluctuation, spiking, 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.



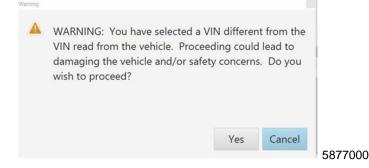
Important: The service technician always needs to verify that the VIN displayed in the TLC left side drop down menu and the top center window match the VIN plate of the vehicle to be programmed prior to using Service Programming System 2 (SPS2) for programming or reprogramming a module.

- 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.



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



Service Update

N212355140 Diesel Engine Control Module Diagnostics



DASHBOARD	GDS2	SI SPS2	Support - RPO - Search Service Manuals Q	
SPS2	0002			
pr or				
		Programming	M4521: You are attempting to reprogram with the same calibration.	
Controller	ID	A Current #	Select OK to continue, Cancel to Stop! Description	
K17	1	84820771		
(17	2	84820790	OK Cancel	
K17	3	84820797	84820797 Destruct Bully Disgrand Culture	
K17	4	84820801	84820801	
K17	5	84820808	84820808 - Driver and Links all rates	
K17	6	84820819	84820819 Tex Berner Collection	
K17	7	84820825	84620825	

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 Engine Control Module. Refer to K20 Engine Control Module: Programming and Setup in SI.

CM Techline C				N - Okarald - Osarad	Click to disconnec	*			
DASHBOARD	GDS2	SI	SPS2		Support 👻	RPO -	Search Service Man	anis	Q
SPS2							(_ 0	×
				Warranty Claim Code					
	PM le: 28YN46808556 code is remin	o confirm prop			ing Warranty Claim Codes n	ay result in reje	ction of warran	ity claim.	
Record this code on th			be retrieved through "Setti ble).	ings" at SPS start page					
Post Programming In	nstructions:								
Follow the Controller	Specific Instruction	s below.							
If there are no Control	ler Specific Instruct	tions, turn ignit	ion off for 30 seconds to rese	et the controller.					

5644478

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.

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

Dealer Responsibility

Whenever a vehicle subject to this service update enters your vehicle inventory, or is in your facility for service in the future, and the vehicle is still covered under the Emission Limited Warranty, you must take the steps necessary to be sure the service update correction has been made before selling or releasing the vehicle.

All new, used, GM Certified Used, courtesy transportation vehicles, dealer shuttle vehicles, etc. in dealers' possession and subject to this bulletin <u>must</u> be held and inspected/repaired per the service procedure of this bulletin <u>before</u> customers take possession of these vehicles. Involved vehicles must be held and not delivered to customers, dealer-traded, released to auction, used for demonstration, or any other purpose.

All GM Certified Used vehicles currently in the dealers' inventory within the Certified Pre-Owned Inventory System (CPOIS) will be de-certified and must be held and remedied per the service procedure in this bulletin. Upon submitting an accepted/paid warranty transaction in the Global Warranty Management (GWM) system, the vehicle can be re-certified for sale within the CPOIS system, or once again be used in the CTP program.



Dealer Reports - For USA & Export

The Inventory tab of the Open Vehicle Report will contain Service Update Bulletin VINs that apply to this field action. This information is intended to assist dealers with the **PROMPT COMPLETION** of these vehicles. The Customer In-Service tab will not contain Service Update Bulletin VIN data because the intent of a Service Update Bulletin is to not inconvenience a customer with a special trip for service. Service Update Bulletins are to be completed when the customer is in for a regularly scheduled visit.

GM bulletins are intended for use by professional technicians, NOT a "do-it-yourselfer". They are written to inform these technicians of conditions that may occur on some vehicles, or to provide information that could assist in the proper service of a vehicle. Properly trained technicians have the tools, equipment, safety instructions, and know-how to do a job properly and safely. If a condition is described, <u>DO NOT</u> assume that the bulletin applies to your vehicle, or that your vehicle will have that condition. See your dealer for information on whether your vehicle may benefit from the information.



We Support Voluntary Technician Certification