

GLOBAL SAFETY FIELD INVESTIGATIONS
DCS5785
URGENT - DISTRIBUTE IMMEDIATELY

Date: May 5, 2021

Subject: REVISION: N202307080-01 - Service Update
Auto Stop with Low Battery State of Charge
Labor Codes Added for T1 SUV Vehicles

Models: 2020-2021 Cadillac CT4, CT5
Equipped with Engine-Gas: Engine-Gas: 4 CYL, L4, 2.7L/ 4 CYL, L4,
2.0L/6 CYL, 3.0L (RPO L3B/LSY/LGY)

2021 Cadillac Escalade, Escalade ESV
2021 Chevrolet Tahoe, Suburban
2021 GMC Yukon, Yukon XL
Equipped with Engine-Gas: 8 CYL, 5.3L, V8/8 CYL, 6.2L, V8/Engine-
Diesel: 6 CYL, 3.0L (RPO L84/L87/LM2)

To: All General Motors Dealers

This bulletin has been updated with two additional labor codes in the warranty information table. Please discard all previous copies of N202307080.

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

END OF MESSAGE
GLOBAL SAFETY FIELD INVESTIGATIONS

Service Update

N202307080 Auto Stop with Low Battery State of Charge



Release Date: May 2021

Revision: 01

Revision Description: This bulletin has been updated with two additional labor codes in the warranty information table. Please discard all previous copies of N202307080.

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

Make	Model	Model Year		RPO	Description
		From	To		
Cadillac	CT4	2020	2021	L3B/LSY/LGY	Engine-Gas: 4 CYL, L4, 2.7L/ 4 CYL, L4, 2.0L/6 CYL, 3.0L
	CT5				
	Escalade	2021	2021	L84/L87/LM2	Engine-Gas: 8 CYL, 5.3L, V8/8 CYL, 6.2L, V8/Engine- Diesel: 6 CYL, 3.0L
	Escalade ESV				
Suburban					
Tahoe					
Chevrolet	Yukon				
	Yukon XL				

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 2020 - 2021 model year Cadillac CT4 and CT5 and 2021 model year Cadillac Escalade, Escalade ESV, Chevrolet Tahoe, Suburban, GMC Yukon and Yukon XL vehicles may have a condition where the engine control module (ECM) software allows the Auto Stop to occur at a state of charge below 65%. Auto Stop is supposed to be inhibited at 65% to protect against excessive battery wear and discharge.
Correction	Dealers are to reprogram the K20 Engine Control Module.

Parts

No parts are required for this software update.

Warranty Information

Labor Operation	Description	Labor Time	Trans. Type	Net Item
9105259*	Verified Module Software or Calibration Level: Module Is Programmed with Same Level Software or Calibration – CT4/CT5	0.2	ZFAT	N/A
9105260*	Reprogram K20 Engine Control Module with SPS – CT4/CT5	0.3		
9105665*	Verified Module Software or Calibration Level: Module Is Programmed with Same Level Software or Calibration – T1 SUV's Only	0.2		
9105666*	Reprogram K20 Engine Control Module with SPS – T1 SUV's Only	0.4		

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

- The Warranty Claim Code 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 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 SPS system as follows:

1. Open TLC/TIS on the computer used to program the vehicle.
2. Select and start SPS/SPS2.

Service Update

N202307080 Auto Stop with Low Battery State of Charge



3. Select Settings.
4. Select the Warranty Claim Code tab.

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.

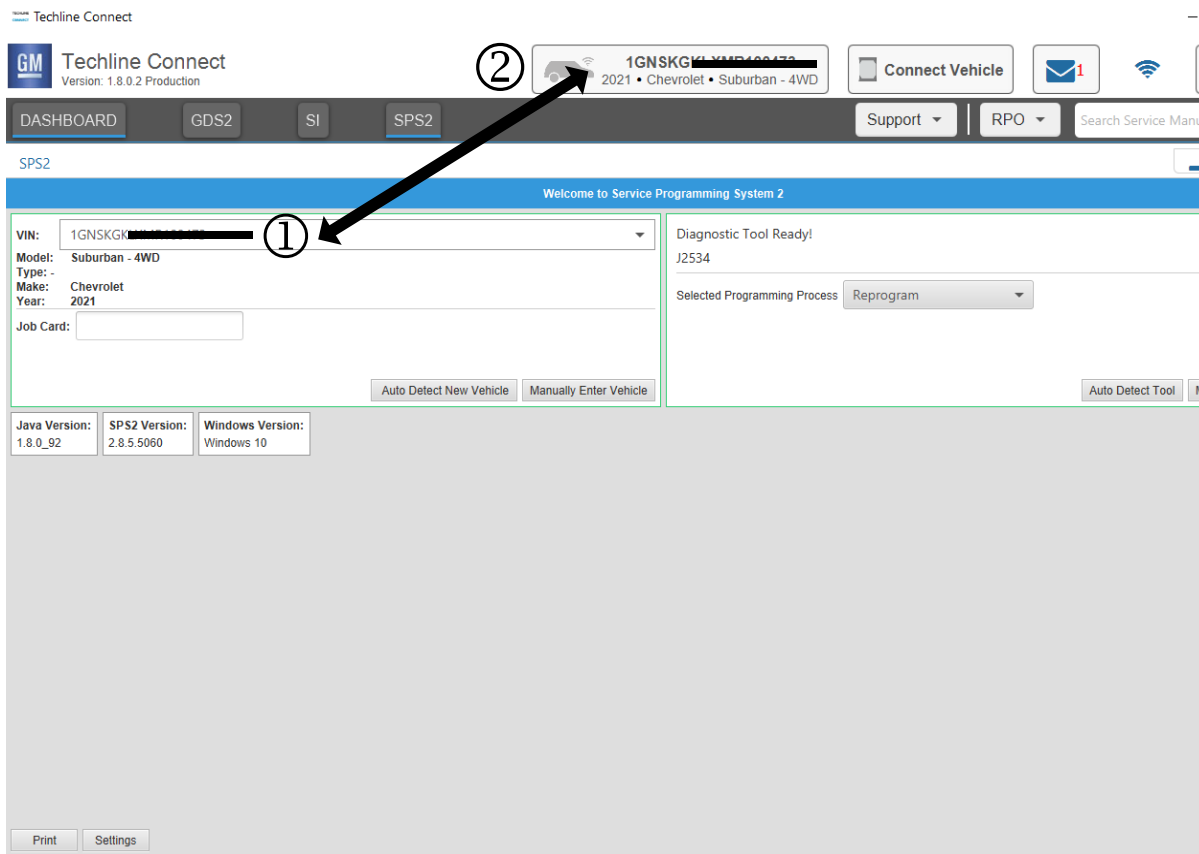
Service Procedure

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.
- Turn OFF or disable systems that may put a load on the vehicles battery such as interior lights, exterior lights (including daytime running lights), HVAC, etc.
- Clear DTCs after programming is complete. Clearing powertrain DTCs will set the Inspection/Maintenance (I/M) system status indicators to NO.

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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Service Update

N202307080 Auto Stop with Low Battery State of Charge



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The screenshot shows the Techline Connect SPS2 Programming interface. A table lists controllers with columns for Controller, ID, Current #, and Description. A warning dialog box is displayed over the table, stating: "M4521: You are attempting to reprogram with the same calibration. Select OK to continue, Cancel to Stop!".

Controller	ID	Current #	Description
K17	1	84820771	
K17	2	84820790	
K17	3	84820797	84820797
K17	4	84820801	84820801
K17	5	84820808	84820808
K17	6	84820819	84820819
K17	7	84820825	84820825

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The screenshot shows the Service Programming System Summary screen. A table lists controllers with columns for Controller, Id, Current #, Selected #, and Description. A warning dialog box is displayed over the table, stating: "M4521: You are attempting to reprogram with the same calibration. Select OK to continue, Cancel to Stop!".

Controller	Id	Current #	Selected #	Description
	1	84758789	84758789	
	2	84790857	84790857	
	4	84557555	84557555	
	5	84681582	84681582	
	7	84690692	84690692	
	8	84662691	84662691	
	9	84678464	84678464	

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.

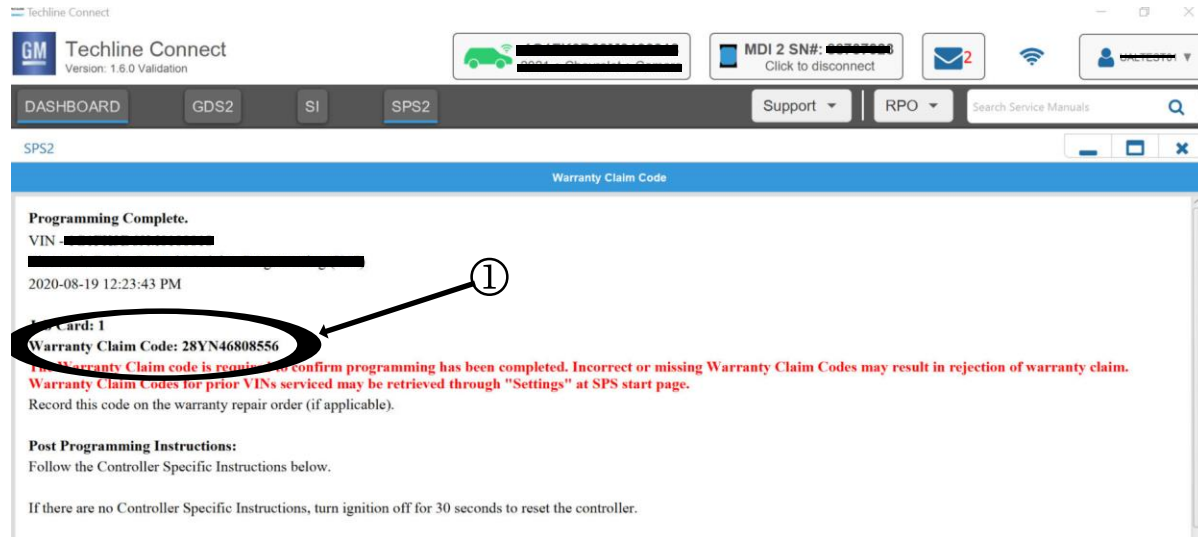
Service Update

N202307080 Auto Stop with Low Battery State of Charge

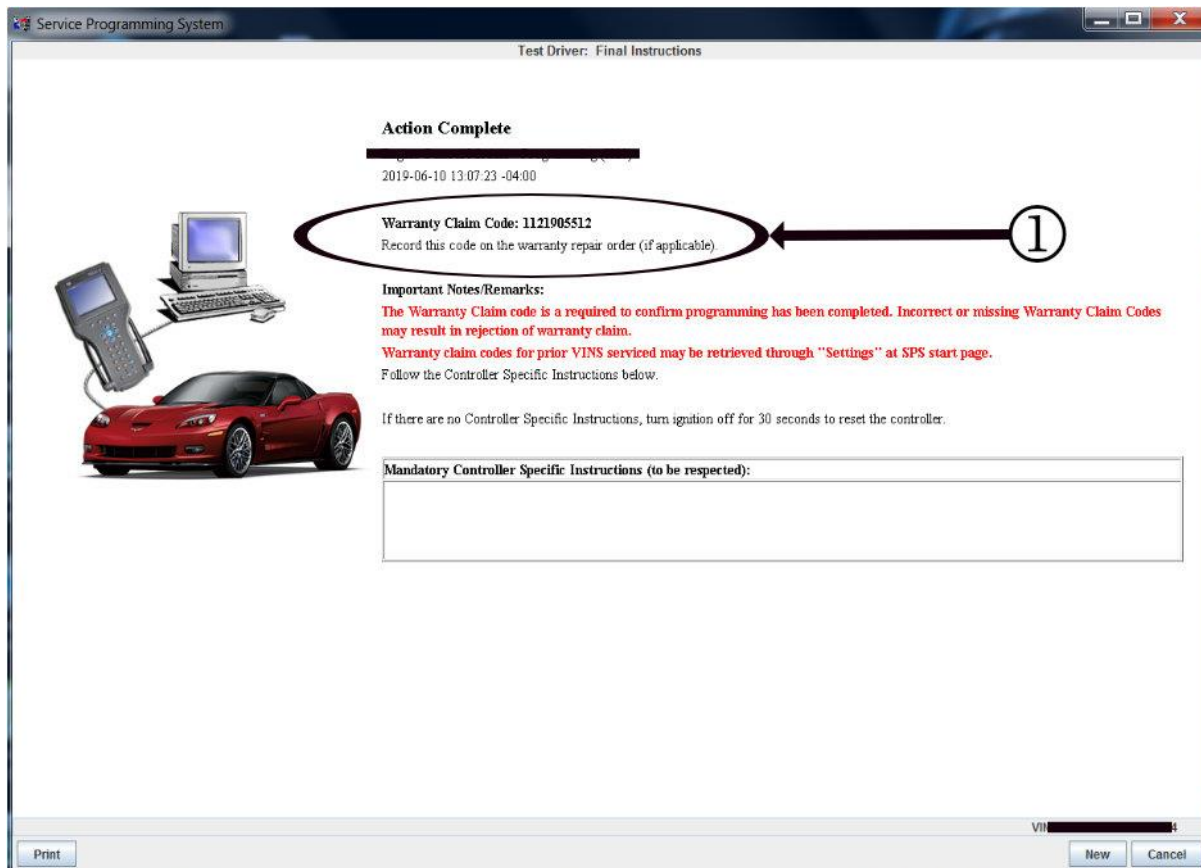


Important: When programming a module in GM's new Vehicle Intelligence Platform, or VIP, the power mode (ignition) needs to be off or errors may occur. This involves the 2020 Chevrolet Corvette, Cadillac CT5 and CT4, as well as the upcoming full-size Chevrolet, GMC, Cadillac SUVs and Buick Envision. Serial Data Message Authentication also needs to have the ignition off.

1. Reprogram the Engine Control Module. Refer to *K20 Engine Control Module: Programming and Setup* in SI.



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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.

Service Update

N202307080 Auto Stop with Low Battery State of Charge



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.

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 New Vehicle 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 must be held and inspected/repaired per the service procedure of this bulletin before 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

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.

