

## Service Bulletin

# TECHNICAL

#### Subject: LSY P30EF Cooling Fan Service Calibration

This service bulletin replaces PIC6496A. Please discard PIC6496A.

Brand:	Model:	Model Year:		VIN:		Engine	Transmission
		from	to	from	to	Engine.	mansinission.
Cadillac	CT4	2022	2023		_	2.0L (RPO LSY)	_
	CT5						
Chevrolet	Blazer	2023	2023				
GMC	Acadia	2023	2023				

Involved Region or Country	North America, Middle East
Condition	Some customers may comment on a Malfunction Indicator Lamp (MIL) illuminated. Technicians may find DTC P30EF set in the ECM.
Cause	The cause of the condition may be a hardware anomaly in cooling fan motor.
Correction	Reprogram the cooling fan.

## 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 <u>www.gmdesolutions.com</u> for further information. If not available, connect a fully charged 12V 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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Important: Techline Connect screen 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. Document the WCC on the job card. No further action is required. Refer to the Warranty Information section of this bulletin.

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1. Reprogram the cooling fan through the Engine Control Module. Refer to *K20 Engine Control Module: Programming and Setup* in the Service Manual.



**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 the SPS Warranty Claim Code on the job card for warranty transaction submission.

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### **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.

**Note:** Warranty Coverage Code E applies to Labor Operation 2889678.

Labor Operation	Description	Labor Time
2889678*	Cooling Fan Service Calibration Programming	0.3 hr
*This is a uniq	ue Labor Operation for bulletin	use only.
Important: To carefully read	avoid warranty transaction reje and follow the instructions below	ections, w:
Labour Time [Top]		
Additional labour op code i	nformation. SPS Warranty (	Claim Code:
		6125814
<ul> <li>The Warr in the "Ware"</li> <li>When model</li> <li>Generate</li> </ul>	anty Claim Code must be accur arranty Claim Code" field of the ore than one Warranty Claim Co d for a programming event, it is	rately entered transaction. de is required to
documen field on th codes in transactio best prac by SPS2.	t all Warranty Claim Codes in the job card. Dealers must also e the "Warranty Claim Code" field on, otherwise the transaction wi tice to enter the FINAL code pro	ne "Correction" enter one of the of the Il reject. It is ovided

#### Warranty Claim Code Information Retrieval

	VIN VIN	gnosocs Logging Warranty Modele	Function	Warranty Claim Code	Job Carl
a Viri	-	873 - Televistics Communication linterfece Commit Module	Programming & Service Activation		1-2
1,02	-	69 - Body Control Vicdule	Programming		test
		<ol> <li>Actenutic layer Central Mariate Ignition</li> </ol>	C#		test driver
		CiG-Serial Data Gateway Module	Property		test driver
	1				
					OS Canor

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	1
Modified	Released July 14, 2023

GM bulletins are intended for use by professional technicians, NOT a "<u>do-it-yourselfer</u>". 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 equipment, tools, 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 GM dealer for information on whether your vehicle may benefit from the information.



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