



Service Bulletin

Bulletin No.: 21-NA-130

Date: November, 2024

TECHNICAL

Subject: Malfunction Indicator Lamp (MIL) Illuminated, DTC P31E8, P31DB, P31D4 and/or P31E2 Set

Brand:	Model:	Model Year:		VIN:		Engine:	Transmission :
		from	to	from	to		
Cadillac	CT4	2020	2021	—	—	2.7L (L3B), 3.0L (LGY)	—
	CT5						

Involved Region or Country	North America, Middle East, Israel, Palestine, Japan, Cadillac Korea (South Korea)
Condition	<p>Some customers may comment that the MIL is illuminated. Some technicians may find one or more of the following DTCs set in the Engine Control Module (ECM):</p> <ul style="list-style-type: none"> • P31D4: Exhaust Flow Control Valve - Position Signal Exceeds Upper Limit — Bank 1 • P31DB: Exhaust Flow Control Valve Stuck Open — Bank 1 • P31E2: Exhaust Flow Control Valve - Position Signal Exceeds Upper Limit Bank 2 • P31E8: Exhaust Flow Control Valve Stuck Open Bank 2
Cause	This condition may be caused by old firmware or fail-safe spring failure within exhaust valve actuator.
Correction	Replace both exhaust valve actuators if the above DTCs are found.

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.

Service Procedure

Refer to *Exhaust Control Valve Actuator Replacement* in SI.

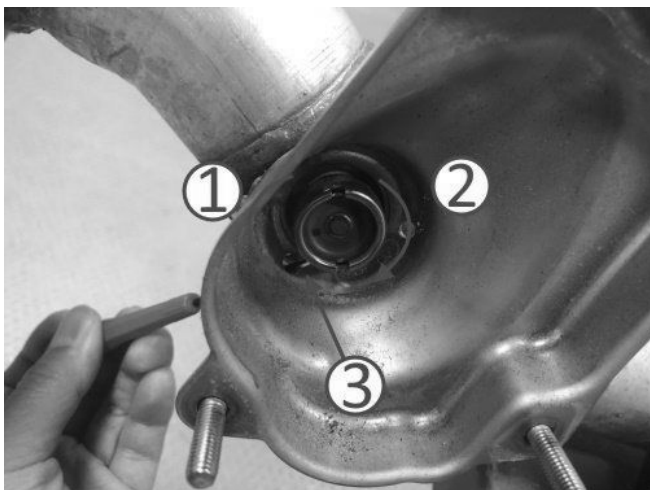
General Step by Step Instruction – Hardware Install

1. Verify that the actuator is not connected or powered.



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2. Attach the spring to loose un-powered actuator (1) (note the orientation of the spring).
 - ⇒ Verify the spring clip is centered and firmly seated.
 - ⇒ The tab in the actuator should be pointed away (3) from the motor (2).



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3. Manually turn the valve bearing on the exhaust side to its closed position. Note the turning direction (1).
4. While forcing the valve bearing to its closed position, position a small flat-headed screwdriver or pick tool to keep the valve in its closed position (3).



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5. Install the un-powered actuator as square as possible to its installation bolts.
6. Press against the actuator body while installing the bolts.

Tighten

Tighten the bolts to 10 N.m (88.5 lb in).

General Step by Step Instruction – Programming the Exhaust Flow Control Valve

Note: For further information, refer to *Exhaust Flow Control Valve Learn* in SI.

1. Ignition » On / Vehicle » In Service Mode
2. Select: Module Diagnostics
3. Select: Engine Control Module
4. Select: Configuration/Reset Functions
5. Select: Learn Functions Reset Functions
6. Select: Exhaust Control Valve

Note: The scan tool does not display the learn/reset status.

7. Follow the instructions on the scan tool. The procedure will complete within 10 seconds.

Parts Information

Causal Part	Description	Part Number	Qty
X	ACTUATOR, EXH CONT VLV	85120344	2

Warranty Information

For vehicles repaired under warranty, use:

Labor Operation	Description	Labor Time
4051800	Exhaust Control Valve Actuator Replacement	Use Published Labor Operation Time

Version	2
Modified	Released May 28, 2021 November 07, 2024 – Added the Important statement and updated the part quantity to 2 in Parts Information section.

