



# Service Bulletin

Bulletin No.: 21-NA-130

Date: June, 2021

## 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						

<b>Involved Region or Country</b>	North America, Middle East, Israel, Palestine, Japan, Cadillac Korea (South Korea)
<b>Condition</b>	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): <ul style="list-style-type: none"> <li>• P31D4: Exhaust Flow Control Valve - Position Signal Exceeds Upper Limit — Bank 1</li> <li>• P31DB: Exhaust Flow Control Valve Stuck Open — Bank 1</li> <li>• P31E2: Exhaust Flow Control Valve - Position Signal Exceeds Upper Limit Bank 2</li> <li>• P31E8: Exhaust Flow Control Valve Stuck Open Bank 2</li> </ul>
<b>Cause</b>	This condition may be caused by old firmware or fail-safe spring failure within exhaust valve actuator.
<b>Correction</b>	Replace both exhaust valve actuators if the above DTCs are found.

### 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 (Document ID# 5522032)* 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 s.

**Parts Information**

Causal Part	Description	Part Number	Qty
X	ACTUATOR, EXH CONT VLV	85120344	1

**Warranty Information**

For vehicles repaired under warranty, use:

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

<b>Version</b>	1
<b>Modified</b>	Released May 28, 2021

