

# Service Bulletin

# TECHNICAL

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

Brand:	Model:	Model Year:		VIN:		Engine	Tranamiagian
		from	to	from	to	Engine.	Transmission.
Cadillac	CT4	2020	2021	_	_	2.7L (L3B),	.7L (L3B), .0L (LGY) —
	CT5					3.0L (LGÝ)	

Involved Region or Country	North America, Middle East, Israel, Palestine, Japan, Cadillac Korea (South Korea)		
	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		
Condition	<ul> <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>		
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.		

### **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).



- 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	

 Version
 1

 Modified
 Released May 28, 2021

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