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Case Number: S2025000005 REV. A

Release Date: 1/21/2021

Symptom/Vehicle Issue: Malfunction Indicator Lamp (MIL) Illumination. Diagnostic Trouble Codes P0407 – EGR Sensor B Circuit Low, or P0408 – EGR Sensor B Circuit High Set

Discussion: A small number of customers may experience a MIL illumination. They may also comment that the engine may have a perceived lack of power or misfire. Upon further inspection, a technician may find DTC P0407, or P0408 set in the Powertrain Control Module (PCM). They may also find one or more of the following DTCs.

- P0300 – Multiple Engine Misfire.
- P0301 – Cylinder1 Misfire.
- P0302 – Cylinder 2 Misfire.
- P0303 – Cylinder 3 Misfire.
- P0304 – Cylinder 4 Misfire.
- P0305 – Cylinder 5 Misfire.
- P0306 – Cylinder 6 Misfire.
- P049D – EGR Control Position Exceeding Learning Limit
- P04DD – Cold Start EGR 1 Flow Insufficient Detected
- P045E – EGR B Control Stuck Open
- P225D – NOX Sensor 1/1 Performance, Signal Stuck Low

NOTE: DTCs P0407, and P0408 are position sensor circuit faults for the Low Pressure (LP) EGR system. The LP EGR valve, and cooler are located on the driver's side rear of the engine. The High Pressure (HP) EGR system does not have an effect on these DTCs. Please ensure that the correct EGR system is being diagnosed prior to replacing any parts.

This document does not authorize warranty repairs. This communication documents a record of past experiences. STAR Online does not provide any conclusions about what is wrong with the vehicle. Rather, it captures all previous cases known that appear to be similar or related to the vehicle symptom / condition. You are the expert, and you are responsible for deciding on the appropriate course of action.

Contact STAR Center, or your Technical Assistance Center Via TechCONNECT or eCONTACT ticket if no solution is found



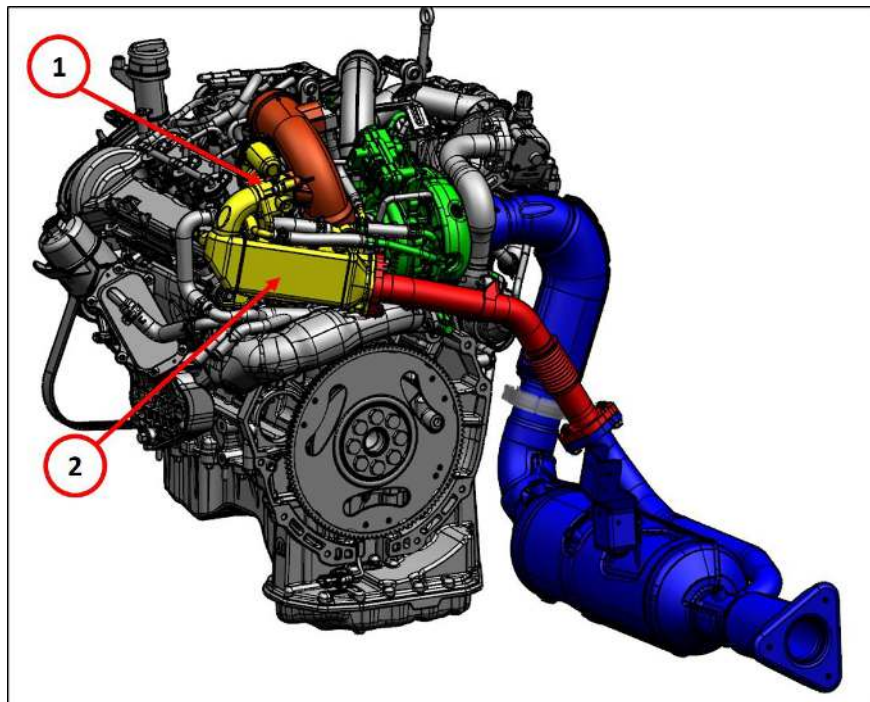
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If you receive a vehicle with any of the above codes setting along with the P0407, or P0408, concentrate diagnosis on the P0407/P0408 first before diagnosing any other codes.

When either the P0407, or P0408 set, the PCM may actuate the Low Pressure EGR valve in order to determine its position. This may lead to the valve being either open or closed during the wrong times which can lead to the other DTCs or drivability concerns.

Please refer to (Figure 1) for the location of the LP EGR system.



1. LP EGR Valve.
2. LP EGR Cooler.

Figure 1

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