

Service Information



2009 Chevrolet Kodiak C-Series (Conventional) C4/C5 | Kodiak, TopKick C-Series Service Manual | Preliminary Information |
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#PIP4516D: Light and Medium Duty Trucks EGR DTC P0401 - keywords 07 08 09 6.6 cooler exhaust flow gas idle Imm maf mil recirculation restriction ses - (May 29, 2009)



Light and Medium Duty Trucks EGR DTC P0401

Subject:

Models: 2007-2009 Chevrolet Kodiak, Silverado
2007-2009 GMC Sierra, Topkick
Equipped with the 6.6 diesel engine RPO code LMM

This PI was superseded to include information about light duty GMT900 calibrations available for P0401. Please discard PIP4516C.

The following diagnosis might be helpful if the vehicle exhibits the symptom(s) described in this PI.

Condition/Concern:

A dealer may encounter a customer concern of a SES light and a DTC P0401 for Exhaust Gas Recirculation (EGR) Flow Insufficient. P0401 may occur when the vehicle is used in applications that necessitate extended idle times and short drives.

A new calibration has been released to address P0401 on light and medium duty vehicles equipped with the 6.6 diesel engine RPO code LMM.

Recommendation/Instructions:

Complete the current SI diagnostics for any trouble code or symptom found. If diagnostics were inconclusive it's possible the vehicle has a restricted EGR cooler. If the vehicle has a P0401 and is being used for extended idles and short drives, the EGR cooler may have to be cleaned or replaced.

EGR Cooler restrictions can be diagnosed by monitoring MAF sensor readings at idle. Complete the current SI diagnostic for DTC P0401 (circuit/system testing portion) to verify if EGR cooler is restricted.

If the restricted EGR cooler has been verified, the EGR cooler must be removed and cleaned.

When the EGR cooler is removed use either Simple Green or Krud Kutter following the process below. Install new EGR cooler gaskets to complete this repair. After completing the EGR cooler cleaning procedure, recalibrate the ECM with the latest calibration named "Engine calibration update to address frequent occurrences of DTC P0401."

1. Remove the EGR cooler following SI repair procedures.
2. Fill EGR cooler (exhaust openings) with Simple Green or Krud Kutter (cleaners are available at most hardware stores). Plug one end of cooler and fill the EGR cooler with cleaning solution. Soak for 15 minutes. Alternating the filling from one end to the other may also be helpful.
3. Flush with clean warm water.
4. Repeat until the cleaner and water run clear without any soot (this may take a full gallon of cleaner to complete).
5. Dry EGR cooler with low pressure compressed air. Inspect the cooler by shining a flashlight through the exhaust passage. Light should be observed from one end to the other. If partial blockages still exist, repeat the cleaning process.

Note: Local radiator shops with ultrasonic cleaners may also be able to clean the EGR cooler effectively. Do not use cleaners such as brake clean or other chemicals with any type of acid in the product. Brake cleaners will only harden the soot and make it more difficult to remove.

Replace the EGR cooler if cleaning is not successful.

Please follow this diagnostic or repair process thoroughly and complete each step. If the condition exhibited is resolved without completing every step, the remaining steps do not need to be performed.

GM bulletins are intended for use by professional technicians, NOT a "do-it-yourselfer". 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, DO NOT 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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