

GM Regeneration Issue

#PIP4422A: Diesel Engine Extended Idling P2448 P244C P2463 - keywords 6.6 6.6L clean cool cooler DPF EGR exhaust filter idle indicator IPC message P0401 particulate regen regeneration service - (Oct 23, 2008)



Subject: Diesel Engine Extended Idling P244B P244C P2463

Models: 2007-2008 Chevrolet Express

2007-2008 GMC Savana

Equipped with the 6.6L Diesel Engine RPO code LMM

This PI was superseded to advise dealers of new calibration for ambulance and shuttle buses. Please discard PIP4422.

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 DTC P244B, P244C, or P2463. DTC P0401 may occur in these vehicles as well.

This PI is directed to vehicles used in a very specific drive cycle. Vehicles used for shuttle buses and/or ambulances (and other similar applications) may be seeing extended idle times and short drives. The extended idle and short drives may induce EGR and DPF concerns.

There has been a new calibration released for 2007-2008 Chevrolet Express or GMC Savana Vans experiencing P0401, P244B, P244C, or P2463. At this time the calibration is only available for vans equipped with an ambulance package (RPO YF2) or shuttle bus package (RPO ANC).

Recommendation/Instructions:

Complete the current diagnostics for any DTC or symptom found. If a dealer has encountered DTC P244B, P244C, P2463, or a repeat DPF clean filter message due to the vehicle drive cycles (as described above) continue with the information found in this PI.

1. Make sure the customer/driver has been given a copy of the "Diesel Particulate Filter Operation" (located in diesel engine owners manual supplement), and the SI document titled, "Diesel Particulate Filter System Description." Many times there are multiple drivers of these vehicles and they have not received these important operating instructions.
2. If a vehicle has been used for idling with short drive cycles, the DPF may not reach a calibrated temperature inducing a P244B, P244C, or P2463 to set. There has been a new calibration released to address P244B, P244C, or P2463 on vehicles built with the ambulance and shuttle bus packages (RPO codes YF2 or ANC). When programming the ECM with the updated P244B, P244C, or P2463 calibration, the TCM must also be updated with the latest calibrations. Only use these calibrations if the vehicle has experienced the condition described in this PI.

A quick check can be done to verify the new calibrations are available as noted below by model year:

1. 2007 Model Year
 - A. Engine diagnostic calibration part numbers
 - i. 12632400 for single generator equipped vans
 - ii. 12632401 for dual generator equipped vans

- B. Engine operation calibration part number: 12632399

2. 2008 Model Year

- A. Engine diagnostic calibration part numbers
 - i. 12632403 for single generator equipped vans
 - i. 12632404 for dual generator equipped vans

- B. Engine operation calibration part number: 12632402

3. Leaks at the turbo to exhaust pipe connection could also lower DPF temperatures. Use the SI document for Charge Air Cooler Diagnosis (Full System Air Leak Test) to inspect for any exhaust leaks before the DPF. Repair exhaust leaks as necessary.

4. In some cases the driver has noticed a "clean filter message" and continued to idle the vehicle. As per the owner's manual description, the vehicle must be driven above 30 mph (50 km/h) until the warning message goes off. This will take about 20 minutes. If the vehicle is not driven, a P244B may be induced.

Note: Vehicles that have extended idle times and short drives are more susceptible to DPF DTCs P244B, P244C, and P2463. A dealer may encounter this condition on a 2007-2008 Express or Savana van without RPO codes ANC or YF2. Please question the customer about idle times and drive cycles. If DPF DTCs P244B, P244C, and P2463 have been duplicated, and the drive cycles are as described in this PI, check TIS2WEB for the new calibration titled "New calibration with diagnostic enhancements for DTC P0401, P2463, P244B, P244C." If the calibration is not found please contact GM Techline at 1-800-828-6860.

Note: At this time calibrations for light and medium duty trucks have not been released. If a dealer encounters a light or medium duty vehicle that may benefit from this type of calibration update/repair, please complete a field product report using the newest version of bulletin 02-00-89-002.

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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Subject Fw: Chevy Ambulance Chassis