



# Service Bulletin

Bulletin No.: 25-NA-066

Date: March, 2025

## INFORMATION

**Subject: Diagnostic Tip Diesel Inspection/Maintenance System Status Parameters**

Brand:	Model:	Model Year:		Build Date:		Engine:	Transmission:
		from	to	from	to		
Chevrolet	Silverado 2500 HD/ 3500 HD	2024	2025			L5P	
	Silverado 4500 HD/ 5500 HD/6500 HD	2023	2025			L5D	
GMC	Sierra 2500 HD/ 3500 HD	2024	2025			L5P	

<b>Involved Region or Country</b>	North America, Israel, Palestine, Middle East
<b>Condition</b>	Some customers may find that the inspection/maintenance system status parameters are not all ready
<b>Cause</b>	This condition may be caused by not all the codes needed to complete the inspection/maintenance system status parameters have run and passed
<b>Correction</b>	Please see below

**Important: Service agents must comply with all International, Federal, State, Provincial, and/or Local laws applicable to the activities it performs under this bulletin, including but not limited to handling, deploying, preparing, classifying, packaging, marking, labeling, and shipping dangerous goods. In the event of a conflict between the procedures set forth in this bulletin and the laws that apply to your dealership, you must follow those applicable laws.**

### Information

In terms of I/M readiness, we are not concerned with any codes set, we want the codes to run and pass. Think of each of the inspection/maintenance system status parameters as a single monitor. The chart in document ID 5866970 shows all the codes that need to run and pass for each to clear. Below is a drive cycle that may be useful to clear all the inspection/maintenance system status parameters in the ECM.

Engineering has put together the following to help to get all of the inspection/maintenance system status parameters to run and pass.

#### After a Code Clear: (Allows for I/M Readiness in all diagnostics but P2459)

Drive procedure needs a minimum of two, eight-hour soak periods. Choose 2/3 sections to have a soak)

1. Verify the transmission is in PARK for automatic transmissions, and neutral for manual transmissions.
2. Start the engine and idle for approximately 1-2 minutes.
3. Using the scan tool, trigger a driving regen.

- ⇒ Drive to the nearest freeway. If freeway is not close (within 3-5 minutes) please delay triggering the regen until a parking lot close to the freeway.
  - ⇒ For 45 minutes, the speed limit and coast down about 15 MPH (25 KPH) every 3-5 minutes. Repeat until regeneration is complete. Try to accelerate at a constant rate after each coast down (approximately 0.5-1.5 mph per second, with the same pedal foot position), avoid fast accelerations.
  - ⇒ Turn around at the nearest exit after the regeneration is complete.
4. Repeat Step 3 on return to the starting point but without a regen.
  5. After returning to the parking lot, drive around for approximately 3-5 minutes keeping the speed under 15 MPH (24 KPH).
  6. Return and park the vehicle (do not idle more than 2 minutes) and shutoff for at least 5 minutes. If reasonable timing, try to soak the engine for 8 hours or more.
  7. Start the engine and immediately drive a city type cycle that includes stops (at least 3). If this step is being run after an 8-hour soak, try to keep the pedal busy. Slowdown 5-10 mph (8 to 16 KMH) and speed back up. Avoid cruising.
  8. Repeat Steps 3 – 7 (Repeat only once for a total of two).
  9. Drive on highways or back roads at 55 – 60 MPH (88-96 KPH) for 15 minutes.
  10. After returning to the parking lot, drive around for approximately 3-5 minutes, keep the speed under 15 MPH (24 KPH).
  11. Park the vehicle (do not idle for more than 2 minutes) and shut it off for at least 5 minutes. If reasonable timing, try to soak the engine for 8 hours or more. The 8-hour engine soak is not necessary on this step if it was already completed twice.
  12. Skip this step if an 8-hour soak was not done on Step 11. Start the engine and immediately drive a city type cycle that includes stops (at least 3). If this step is being run after an 8-hour soak, avoid cruising, and keep the pedal busy. Slowdown 5-10 mph (8 to 16 KMH) and speed back up.
  13. Park the vehicle and check I/M readiness with a scan tool if specific code is not ready see the table below.

#### Inspection/maintenance (I/M) status monitor parameters

Abbreviation for table below	Scan Tool Parameter
BS	Boost System Monitor - Since Diagnostic Trouble Codes Cleared
CC	Catalytic Converter Monitor - Since Diagnostic Trouble Codes Cleared
EA	Exhaust Aftertreatment Monitor - Since Diagnostic Trouble Codes Cleared
EGR	Exhaust Gas Recirculation Valve/Camshaft Position Monitor - Since Diagnostic Trouble Codes Cleared
EGS	Exhaust Gas Sensor Monitor - Since Diagnostic Trouble Codes Cleared
FS	Fuel System Monitor - Since Diagnostic Trouble Codes Cleared
OSH	Oxygen Sensor Heater Monitor - Since Diagnostic Trouble Codes Cleared
OS	Oxygen Sensor/Heated Oxygen Sensor Monitor - Since Diagnostic Trouble Codes Cleared
PF	Particulate Filter Monitor - Since Diagnostic Trouble Codes Cleared

If you are having issues with a particular inspection/maintenance (I/M) status monitor parameter, just run all of the steps for the I/M Parameter listed below.

I/M Parameter	Code	Best drive to get the code/ parameter to pass.
CC	P0421	See Step 3, repeat if diagnostic not ready (requires 2 completions after a code clear), if P2002 not ready complete Steps 3 & 4
CC	P0422	See Step 3, repeat if diagnostic not ready (requires 2 completions after a code clear), if P2002 not ready complete Steps 3 & 4
EA	P20EE	See Step 4; can turn around halfway rather than driving a full 45 minutes one way. After step 4, please complete Step 6 (no 8 hour soak is necessary). Repeat if diagnostic not ready (requires at least 2 completions after a code clear).
BS	P0234	See Step 4; can turn around halfway rather than driving a full 45 minutes one way. If Step 4 is not possible try Step 8, but may need to double the time; ensuring there are stoppages and constant accelerations.
BS	P026A	See Step 9.
EGS	P0299	See Step 9.
EGS	P11D3	See Step 7 or Step 9.
EGS	P11D5	See Step 9, can use Step 7 but less effective depending on route.
EGS	P147B	See Step 7 or Step 9.
EGS	P1981	See Step 7 or Step 9.
EGS	P2209	See Step 7 or Step 9.
EGS	P2297	See Step 7 or Step 9.
EGS	P22A7	See Step 7 or Step 9.
EGS	P22F9	See Step 7.

I/M Parameter	Code	Best drive to get the code/ parameter to pass.
EGS	P22FB	See Steps 9, 10 and 11. May require an iteration or two after code clear, must allow after run post key off.
EGS	P22FE	See either Steps 9, 10, and 11 or Steps 7, 10, and 11. May require an iteration or two after code clear, must allow after run post key off.
EGS	P24AF	Diagnostic should run at vehicle key on, no additional steps needed.
EGS	P24C7	See Step 7 or Step 9.
EGS	P24D1	See Step 7 (either include driving around parking lot or double the route) or Step 8.
EGS	P24DA	See steps 6 (soak for 8+hrs) and 7, requires two completions after a code clear. Must immediately drive and keep a busy pedal. The diagnostic will run within the first 5 minutes. Try to find a route that has stops/turns within a mile of each other.
EGS	P2A00	See Step 7 or Step 9.
EGS	P2A01	See Step 7 or Step 9.
PF	P2AB0	See Step 7 or Step 9.
PF	P144E	See Step 3 or run a regen.
PF	P144F	See Step 3 or run a regen.
PF	P2002	See step 4, can turn around halfway rather than driving a full 35 minutes one way. After step 4 complete step 8. If P0421 and P0422 are not ready complete step 3 & 4 together.

I/M Parameter	Code	Best drive to get the code/ parameter to pass.
PF	P2459	Requires 2 natural regens, approximately 800 miles a regen. No work around for diagnostic.
PF	P24A0	See Step 3 or run a regen
PF	P24A1	See Step 3 or run a regen.
EGR	P0401	See Step 7 or Step 9.
EGR	P0402	See step 9, may need to double the step if experiencing issues. Try holding the pedal position constant on accelerations.
EGR	P140B	See Steps 7 and 9. Repeat or extend steps if necessary.
EGR	P140C	See Step 7 (either include driving around parking lot or double the route) or Step 9.
EGR	P2457	See Step 7 or Step 9.

<b>Version</b>	1
<b>Modified</b>	Released March 21, 2025

