



# Service Bulletin

Bulletin No.: 24-NA-173

Date: September, 2024

## TECHNICAL

**Subject: Malfunction Indicator Lamp (MIL) Illuminated - DTC P0521 Set**

Brand:	Model:	Model Year:		Build Date:		Engine:	Transmission:
		from	to	from	to		
Cadillac	Escalade Models	2021	2024			L87	
Chevrolet	Silverado 1500 (New Model)	2019	2019			L84, L87	
	Silverado 1500	2020	2021				
	Silverado 1500 Limited (RPO J21, 12th VIN Digit = 4 or less)	2022	2022				
	Silverado 1500 New (RPO J22, 12th VIN Digit = 5 or greater)						
	Silverado 1500	2023	2024				
	Suburban	2019					
	Tahoe						
GMC	Sierra 1500 (New Model)	2019	2019				
	Sierra 1500	2020	2021				
	Sierra 1500 Limited (RPO J21, 12th VIN Digit = 4 or less)	2022	2022				
	Sierra 1500 New (RPO J22, 12th VIN Digit = 5 or greater)						
	Sierra 1500	2023	2024				
	Yukon Models	2019					

<b>Involved Region or Country</b>	North America
<b>Condition</b>	<p>Some customers may comment that the MIL lamp is illuminated or was illuminated and turned off.</p> <p>Some technicians may find DTC P0521 (Engine Oil Pressure Sensor Performance) set active or stored in history.</p> <ul style="list-style-type: none"> <li>- During inspection, Technician may notice after reviewing vehicle history, the engine oil pressure sensor or ECM was replaced on a prior visit for the same concern.</li> </ul>
<b>Cause</b>	<p>This condition may be caused by a stuck oil pressure relief valve inside the oil pump assembly.</p> <ul style="list-style-type: none"> <li>- This stuck pressure relief valve could cause low oil pressure at idle thus setting the DTC noted above</li> </ul>
<b>Correction</b>	<p>Before inspecting the oil pump, please follow the diagnostic flow chart for P0521 to ensure there are no electrical or oil pressure sensor concerns.</p>

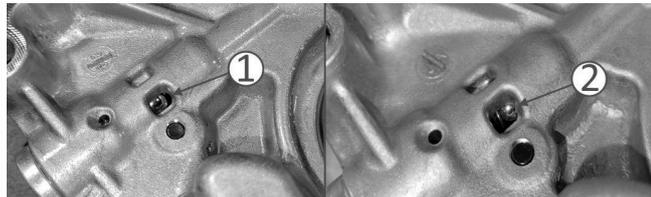
⇒ If no electrical or oil pressure sensor concerns were found, proceed to next step.

**Important:** This test must be done at idle and when oil is hot.

If you find P0521 is current or set in history, it will be necessary to first perform a mechanical oil pressure test using the oil pressure test adapter kit noted in service information under *Oil Pressure Diagnosis and Testing*.

**Important:** Oil pressure can vary greatly when checking oil pressure at the oil filter location using the adapter specified in the service procedure vs checking oil pressure at the oil pressure sensor location. It was noted a difference up to 10 psi was found when checking at both locations.

If oil pressure reading is anything below 20 psi when measured at the oil sensor port, then this issue may be related to a stuck oil pressure relief valve inside the oil pump assembly.



It will then be necessary to remove oil pump for further inspection.

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- (1) Stuck Valve
- (2) Normal Valve

If the Valve has been found stuck, replace the oil pump.

**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.

### Service Procedure

Refer to *Oil Pump Replacement*.

### Parts Information

**Note:** Only select the parts that coincide with the repair performed. Replace the part with the P/N outlined in the Electronic Parts Catalog (EPC) in accordance with the vehicle VIN.

Causal Part	Description	Part Number	Qty
X	PUMP, OIL (RPO L84)	12733671	1
X	PUMP, OIL (RPO L87)	12733670	1

### Warranty Information

For vehicles repaired under the Powertrain coverage, use the following labor operation. Reference the Applicable Warranties section of Investigate Vehicle History (IVH) for coverage information.

Labor Operation	Vehicle	Description	Labor Time
4088498*	All	Diagnosis Time for DTC P0521 Set	0.5 hr
Add	Escalade	Oil Pump Replacement 2WD	5.6 hr
Add		Oil Pump Replacement 4WD	8.6 hr
Add	Sierra/Silverado	Oil Pump Replacement L84 with 2WD	5.5 hr
Add		Oil Pump Replacement L84, L87 with 4WD	9.3 hr
Add	Yukon/Suburban/Tahoe (2021–2023)	Oil Pump Replacement 2WD	2.7 hr
Add		Oil Pump Replacement 4WD	5.7 hr
Add	Yukon/Suburban/Tahoe (2024)	Oil Pump Replacement 2WD	5.6 hr
Add		Oil Pump Replacement 4WD	8.6 hr
Add	RC1 (PLATE-FULL BODY, SKID)	If Equipped	0.2 hr
Add	WTX (FASCIA-FRT, STANDARD)	If Equipped	0.2 hr
Add	F47 (SUSPENSION SYSTEM-FRT & RR, AIR)	If Equipped	0.3 hr
Add	To Recover and Recharge R-1234yf A/C System	If Equipped	1.2 hr

Labor Operation	Vehicle	Description	Labor Time
Add	To Recover and Recharge R-134a A/C System	If Equipped	0.3 hr

\*This is a unique Labor Operation for Bulletin use only.

Version	1
Modified	Released September 12, 2024

