

Subject: Engineering Information - Malfunction Indicator Lamp (MIL) Illuminated On the Driver Information Center (DIC), DTC's P0171, P0174 Set

Attention: Proceed with this EI ONLY if the customer has commented about this concern AND the PIE number is listed in the Global Warranty Management / Investigate History link (GWM/IVH). If the customer has not commented about this condition or the EI does not show in GWM/IVH, disregard the PIE and proceed with diagnostics found in published service information. THIS IS NOT A RECALL refer to Service Bulletin 04-00-89-053 for more details on the use of Engineering Information bulletins.

This EI has been revised to update step 1 and include picture. Please discard PIE0684.

Brand:	Model:	Model Year:		VIN:		Engine:	Transmission:
		from	to	from	to		
Chevrolet	Colorado	2022	2022	-	-	Equipped with 3.6L Engine (RPO LGZ)	-
GMC	Canyon						

Involved Region or Country	North America
Condition	<p>Important: If the customer did not bring their vehicle in for this concern, DO NOT proceed with this EI.</p> <p>Some customers may comment on the Malfunction Indicator Lamp (MIL) illuminated on the Driver Information Center (DIC).</p> <p>Technicians may find one or more of the following DTC's set:</p> <ul style="list-style-type: none"> • DTC P0171 - Fuel Trim System Lean Bank 1 • DTC P0174 - Fuel Trim System Lean Bank 2
Cause	GM Engineering is attempting to determine the root cause of the above condition. Engineering has a need to gather information on vehicles PRIOR to repair that may exhibit this condition. As a result, this information will be used to "root cause" the customer's concern and develop/validate a field fix.

Correction

If you encounter a vehicle with the above concern, perform the following steps and contact the engineer listed below with your findings.



1. Leak check the induction system with special tool GE-52250- Variable Pressure Leak Detector to check for the usual sources of induction leaks i.e. PCV hoses, brake booster hoses, engine cover air intake hoses. When performing this leak check, remove the air cleaner assembly, as shown in the picture above, from the vehicle and introduce the smoke at the exposed rubber zip-tube. DO NOT remove or otherwise disturb the engine cover prior to the leak check.
2. If no leaks are found, run the engine up to normal operating temperature, disable the purge and observe the 'Long Term Fuel Trim' fuel control parameters at idle.
 - 2.1. With the engine still running and the A/C off while the transmission is in Drive, set the parking brake while applying the brake pedal and keeping the brake pedal depressed while observing 'Long Term Fuel Trim'.
 - 2.2. If the 'Long Term Fuel Trim' increased by more than 5% (could be as much as 10%), the O-ring seal on the brake master cylinder could be leaking. Replace that seal and repeat this test.
3. If no leaks are found within the braking system, close hood and run the engine until the under-hood temperatures get extremely hot and repeat step 1.

GM engineering are looking for a leak on the underside of the engine cover caused by a weld failure between the air duct and the underside of the cover.

Note: The leak is not apparent when the engine is cold.

4. Look for a leak underneath the engine cover between the air duct and the cover.

Contact Information

The Contact Information has been redacted.

Please include the following information if leaving a message:

- Technician name
- Dealer name and phone number
- Complete VIN and repair order (R.O) number

On the repair order, document the date and time the call was placed (even if the engineer was not reached).

If engineering is unable to return the call within one hour, proceed with diagnosis and repair based on information found in SI.

Warranty Information

If engineer was contacted or required information was provided, use:

Labor Operation	Description	Labor Time
4088378*	Engineering Information - Malfunction Indicator Lamp (MIL) Illuminated On the (DIC), DTC's P0171, P0174 Set	0.4 hr
*This is a unique Labor Operation for bulletin use only.		

Version	2
Modified	Released March 10, 2022 Revised March 29, 2022 – revised to update step 1 and include picture.