



# Service Bulletin

Bulletin No.: 20-NA-065

Date: August, 2022

## INFORMATION

**Subject:** Information on Malfunction Indicator Lamp (MIL) Illuminated with Multiple Fuel Trim and/or Oxygen Sensor Codes Set

**This bulletin replaces PIP4925B. Please discard PIP4925B.**

Brand:	Model:	Model Year:		VIN:		Engine:	Transmission:
		from	to	from	to		
Buick	GM Passenger Cars and Trucks	2000	2022	—	—	Gasoline Engines Only	—
Cadillac							
Chevrolet							
GMC							

<b>Involved Region or Country</b>	North America, Europe, Uzbekistan, Russia, Middle East, Iraq, Israel, Palestine, Argentina, Brazil, Bolivia, Chile, Colombia, Ecuador, Paraguay, Peru, Uruguay, Venezuela, Japan, Cadillac Korea (South Korea), GM Korea Company, China, Taiwan, Thailand, Singapore, Philippines, Egypt, Other Africa, South Africa
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<p><b>Condition</b></p>	<p>Some customers may comment that the MIL is illuminated. Technicians may find one or more of the following conditions:  <b>Note:</b> Initial diagnosis may display any of these fuel trim and/or O2 sensor related codes.</p> <ul style="list-style-type: none"> <li>• P0101</li> <li>• P0137</li> <li>• P0138</li> <li>• P0140</li> <li>• P0141</li> <li>• P0157</li> <li>• P0158</li> <li>• P0160</li> <li>• P0161</li> <li>• P0171</li> <li>• P0174</li> <li>• P0420</li> <li>• P0430</li> <li>• P1174</li> <li>• P1175</li> <li>• P2096</li> <li>• P2097</li> <li>• P2098</li> <li>• P2099</li> <li>• P2177</li> <li>• P2178</li> <li>• P2179</li> <li>• P2180</li> <li>• P2187</li> <li>• P2188</li> <li>• P2189</li> <li>• P2190</li> <li>• P2270</li> <li>• P2271</li> <li>• P2272</li> <li>• P2273</li> </ul>
<p><b>Information</b></p>	<p>If normal SI diagnostics does not lead to a resolution and an intake vacuum leak or an exhaust leak is suspected, the GE-52250 Variable Pressure Leak Detector (preferred method), the J-41416 ultrasonic leak tester, or possibly using soapy water and low pressure air into the tailpipe, may be useful to find the leak.  <b>Note:</b> All of these tests are much more effective if the throttle body is covered/sealed. For an intake leak, the smoke can be introduced into the brake booster hose or the oil dipstick tube. Soapy water can be sprayed near the gasket and seams and all vacuum nipples.  For an exhaust leak, the hose into the tailpipe with smoke or air sealed with shop towels proves to be effective. Then soapy water would be sprayed around seal, seams and bosses. Ultrasonic leak detector may also find leaks in this way.  These methods are very good for finding small leaks around the O2 sensor embossments and slight cracks in an intake plenum or gasket.  This process was also recommended in the 10207.07D - July 2007 Emerging Issues training seminar (U.S.).</p>

**Special Tools**

The technician should start by following SI diagnostics. If no cause for the concern is found or during diagnosis, a leak check is required. The preferred and most effective method to detect the leak is by use of the GE-52250 Variable Pressure Leak Detector. GE-52250 is not currently an essential tool in the U.S. but it is available to dealers in the U.S. through the GM Tool Loaner Program. Service Bulletin 16-NA-158 outlines the U.S. dealer special tool loan program. For more information on use of the tool, refer to Component/System Leak Test (Document ID #5433806) in SI. The GE-52250 Variable Pressure Leak Detection tool was introduced to the U.S. dealer technicians during the December 2019 Service Know How Emerging Issues broadcast (10219.12V) and during the March 2020 TAC Talk program for dealers in Canada (52020.03-0D).



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**Note:** The adapters may vary as the tool evolves.

GE-52250: Variable Pressure Leak Detector

**Parts Information**

No parts are required for this repair.

<b>Version</b>	2
<b>Modified</b>	Released March 09, 2020 Revised August 15, 2022 – Added the 2021–2022 Model Years.

