

**P0170 - P0174: Testing and Inspection****P0171**

For diagnosis of code P0171, refer to chart:

<b>P0171 - System Too Lean (Bank 1)</b>			
<b>Description:</b>	The adaptive fuel strategy continuously monitors the fuel delivery hardware. The test fails when the adaptive fuel tables reach a rich calibrated limit. Refer to <b>Description and Operation, Powertrain Control Software Fuel Trim</b> for more information.		
<b>Possible Causes:</b>	<p><b>Fuel System:</b></p> <ul style="list-style-type: none"> <li>• Damaged or leaking fuel pulse damper</li> <li>• Fuel filter plugged or dirty</li> <li>• Damaged or worn fuel pump</li> <li>• Leaking fuel pump check valve</li> <li>• Leaking/contaminated fuel injectors</li> <li>• Low fuel pressure or running out of fuel</li> <li>• EVAP canister purge valve is leaking when the canister is clean</li> <li>• Fuel supply line restricted</li> <li>• Fuel rail pressure sensor bias</li> </ul> <p><b>Air Induction System:</b></p> <ul style="list-style-type: none"> <li>• Air leaks after the mass air flow (MAF) sensor</li> <li>• Vacuum leaks</li> <li>• PCV system is leaking or the valve is stuck open</li> <li>• Improperly seated engine oil dipstick</li> </ul> <p><b>Exhaust System:</b></p> <ul style="list-style-type: none"> <li>• Exhaust leaks in the exhaust manifold gasket or mating gaskets before or near the HO2S</li> </ul> <p><b>EGR System:</b></p> <ul style="list-style-type: none"> <li>• Vacuum hose disconnected on exhaust gas recirculation (EGR) system module (ESM) applications</li> <li>• EGR valve tube/gasket leak</li> <li>• EVR solenoid vacuum leak</li> </ul> <p><b>Secondary Air Injection:</b></p> <ul style="list-style-type: none"> <li>• Damaged secondary air injection system or a mechanically stuck valve</li> </ul> <p><b>Air Measurement System:</b></p> <ul style="list-style-type: none"> <li>• Damaged or contaminated MAF sensor</li> </ul>		
<b>Diagnostic Aids:</b>	View freeze frame data to determine the operating conditions when the DTC was set. Observe the LONGFT1 and LONGFT2 PIDs. Refer to <b>Diagnostic Methods, Adaptive Fuel DTC Diagnostic Techniques</b> for more information.		
<b>Application</b>	<b>Key On Engine Off</b>	<b>Key On Engine Running</b>	<b>Continuous Memory</b>
All	—	—	GO to Pinpoint Test H.

**P0171**

If there is no link in the chart then:

- This code is not a valid code for this vehicle
- Or information published by the manufacturer for this vehicle did not include this code
- Or ALLDATA has not added the information for this code yet

For complete diagnosis of the system, follow this link: See: [Powertrain Management/Computers and Control Systems/Testing and Inspection](#)