



# Service Bulletin

Bulletin No.: 20-NA-085


Date: April, 2020

## TECHNICAL

**Subject: Malfunction Indicator Lamp (MIL) Illuminated - DTCs P0018, P0019 and/or P0300 Set**

Brand:	Model:	Model Year:		Date Breakpoint:		Engine:	Transmission:
		from	to	from	to		
Buick	Enclave	2019	2020	January 2, 2019	March 1, 2020	LFY	
Cadillac	XTS		2019			LFX	
Chevrolet	Impala		2020			LFX	
	Traverse		2020			LFY	

<b>Involved Region or Country</b>	North America Uzbekistan, Russia, Middle East, Israel, Palestine, Chile (West), Colombia (West), Peru (West), Cadillac Korea (South Korea), Other Africa
<b>Condition</b>	<p>Some customers may comment on a MIL illuminated. Some customers may also comment that a misfire can be felt. Some technicians may find one or more of the following DTCs set as active or stored in history:</p> <ul style="list-style-type: none"> <li>• P0300: Engine Misfire Detected</li> <li>• P0018: Crankshaft Position - Intake Camshaft Position Not Plausible Bank 2</li> <li>• P0019: Crankshaft Position - Exhaust Camshaft Position Not Plausible Bank 2</li> </ul>

<p><b>Cause</b></p>	 <p style="text-align: right;">5577608</p> <p>This condition may be caused by a missing timing chain guide insert.</p> <ul style="list-style-type: none"> <li>– Some engines built between 1/2/2019 and 3/1/2020, an inset was left off the far-left primary timing chain guide for the left primary timing chain. After a period of time, the timing chain wears through the guide support aluminum which leaves the timing chain very loose and the engine base timing will be off.</li> </ul>
<p><b>Correction</b></p>	<p><b>Note:</b> Some technicians may find when performing a compression test, a lower than normal compression reading may be found across bank 2.</p> <p>Perform an inspection:</p> <ol style="list-style-type: none"> <li>1. Remove the B2 (left) camshaft cover and look down at the timing chain on the left side.</li> <li>2. Inspect to see if the chain is rubbing against the engine block and cylinder head.</li> <li>3. Inspect for slight damage to the block or head. <ul style="list-style-type: none"> <li>– Some damage may be present but should not be detrimental to engine longevity.</li> </ul> </li> </ol> <p>⇒ If a repair is required:</p> <ul style="list-style-type: none"> <li>• Replace the left timing chain</li> <li>• Replace the left timing chain guide</li> <li>• Replace the left timing chain tensioner</li> <li>• If necessary, remove the oil pan and clean the metal out of the pan and pickup screen.</li> <li>• Perform an oil and filter change and ensure no further concerns with this vehicle</li> </ul>

## Service Procedure

Refer to *Secondary Timing Chain Guide Replacement - Left Side* and *Camshaft Timing Chain Components Installation* in SI.

## Parts Information

Causal Part	Description	Part Number	Qty
X	Guide, TMG CHAIN	12600461	1
N/A	CHAIN, CM/SHF INTER DRV (SECONDARY)	12637743	1
N/A	TENSIONER, TMG CHAIN (SECONDARY)	12609261	1
N/A	FILTER, OIL	Refer to EPC	Refer to SI
N/A	Oil		

## Warranty Information

For vehicles repaired under warranty, use:

Labor Operation	Description	Labor Time
4063880	Secondary Camshaft Intermediate Drive Chain Replacement - Left Side	Use the Published Labor Operations Time

Version	1
Modified	Released April 08, 2020

