



# Service Bulletin

Bulletin No.: 18-NA-171

Date: February, 2019

## TECHNICAL

**Subject: Malfunction Indicator Lamp (MIL) Illuminated with DTC P0300**

**This Bulletin replaces PIP5490D. Please discard PIP5490D.**

Brand:	Model:	Model Year:		VIN:		Engine:	Transmission:
		from	to	from	to		
Buick	Encore	2016	2018			1.4L (LE2)	6T35 Automatic (MNU) or 6 Speed Manual (MF3)
Chevrolet	Cruze						

<b>Involved Region or Country</b>	North America and N.A. Export Regions
<b>Condition</b>	Some customers may comment on a rough running engine with the Malfunction Indicator Lamp (MIL) Illuminated. Upon inspection, a technician may find DTC P0300 (Engine Misfire Detected) set in the Engine Control Module (ECM) along with a misfire and low compression in one or more cylinders.
<b>Cause</b>	This condition may be caused by a damaged piston requiring replacement.
<b>Correction</b>	Repair the engine mechanical concern based on the results of the Service Procedure below.

### Service Procedure

If you encounter a vehicle with the above concern, perform an engine compression test. Refer to *Engine Compression Test* in SI.

If low compression is found, perform a cylinder leakage test. Refer to *Cylinder Leakage Test* in SI, and record the test results to isolate the concern.

**Note:** To isolate the source of cylinder leakage to a valve or cylinder sealing issue, it may be necessary to remove the intake and exhaust manifolds.

If excessive leakage to the crankcase is isolated, check all four cylinder walls for damage. If the cylinder wall surfaces have not been damaged, replace all four pistons and fill the crankcase with current specification Dexos oil. Refer to Bulletin Number 16-NA-367.

An un-metered air leak in the induction system, or an engine mechanical issue causing rough running, may cause the ECM to learn an incorrect Throttle Body Idle Airflow Compensation value over time. This incorrectly learned value may cause various symptoms to occur such as MIL on with P1101 setting, rough or unstable idle speeds and/or engine stall.

Once the mechanical repairs have been completed, perform a throttle body inspection and cleaning. Refer to *Throttle Body Inspection and Cleaning* in SI, followed by Throttle Body Idle Air Flow Compensation Reset function in GDS2.

**Note:** For the Cruze vehicles only – A calibration has been released that will help to reduce the possibility of a cracked piston. Update the engine control module to the latest calibration available.

## Parts Information

**Note:** The piston and rod assembly referenced in this bulletin arrives with rod bolts that are allowed to be removed and reused one time for final assembly to the complete repair.

Causal Part	Description	Part Number	Qty
X	PISTON, ENG Kit	12696409	1

## Warranty Information

For vehicles repaired under warranty, use the appropriate labor operation associated with the repair performed.

<b>Version</b>	3
<b>Modified</b>	Released May 22, 2018 August 06, 2018 – Added the Encore model and Parts Information section. February 19, 2019 – Added a Note to the Parts Information section.

