



# Service Bulletin

File in Section: -

Bulletin No.: PI1178F

Date: November, 2018

## PRELIMINARY INFORMATION

**Subject:** Engine Runs Rough with Malfunction Indicator Lamp (MIL) ON, Low Compression on Cylinder with Misfire, DTC P0300 Set

**Models:** 2014-2018 Buick Regal  
2016-2018 Buick Envision  
2013-2018 Cadillac ATS  
2014-2018 Cadillac CTS  
2016-2018 Cadillac CT6  
2013-2018 Chevrolet Malibu  
2016-2018 Chevrolet Camaro  
2018 Chevrolet Equinox, Traverse  
2018 GMC Terrain  
2018 Holden Commodore, Equinox  
Equipped with 2.0L Turbo Engine (RPO LTG)

**Attention:** This PI also applies to any of the above models that may be Export from North America vehicles.

This PI has been revised to add the 2016-2018 Model Years and additional Models. Please discard PI1178E.

### Condition/Concern

Some customers may comment on a rough running engine with the Malfunction Indicator Lamp (MIL) ON. Upon inspection, a technician may find DTC P0300 misfire set along with low compression in one cylinder. This condition may be caused by a crack in the piston located between the piston compression rings.

### Recommendation/Instructions

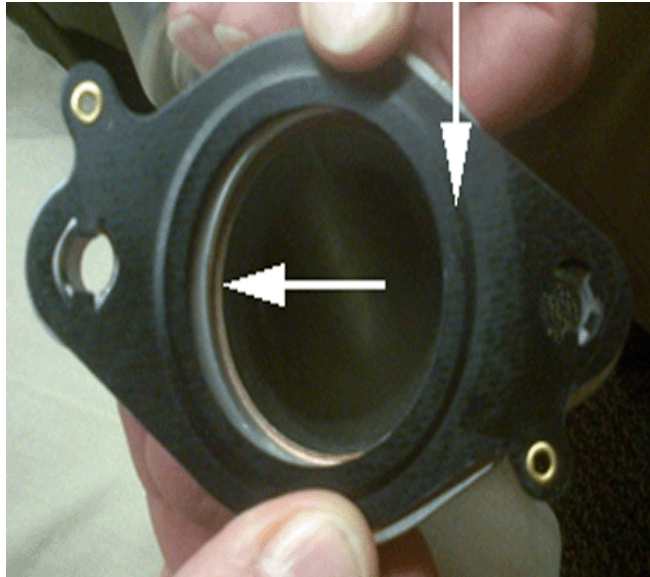
- Perform a leak down test on the affected cylinder making sure the misfire is caused by piston leakage and leakage into the crankcase. Refer to *Cylinder Leakage Test* in SI.
- Visually inspect the spark plug and replace if damaged. Refer to *Spark Plug Replacement* in SI.
- The coil connections for the affected cylinder should also be visually checked for damaged terminals.
- Check the cylinder condition. Some light vertical marks may be visible on the cylinder wall. In these areas, check that the honing marks are still visible in this marked area. If they are, the cylinder surface has not been compromised and the engine block can be used. All 4 piston assemblies and rod bearings need to be replaced with the repair.

**Note:** When installing pistons, make sure to use the tapered ring compressor J-43953 special tool.



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**Note:** When installing the turbo outlet gasket, make sure to position on the studs correctly as shown in the illustration above.



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**Note:** If the gasket is flipped, as shown in the illustration above, it will reduce the outlet flow.

## Parts Information

Part Number	Description	Qty
12652809	Piston Kit	4
11610588	Rod Bolts	8
12634516	Cam Cover Gasket	1
12629404	Head Gasket	1
11610687	Head Bolts	10
89018107	Piston Ring Kit	4
12657438	Rod Bearing	1

## Warranty Information

For vehicles repaired under warranty, use:

Labor Operation	Description	Labor Time
4066890	Piston, Connecting Rod, and Bearing Replacement	Use Published Labor Operation Time