



# Preliminary Information

**PIP5531 Stalling Shudder And/or Hard shifting Into 1st Gear Or Reverse Vibration On launch (With Excessive Crankshaft End Play) And/Or Engine Noise Inspect Crankshaft Bearings**

## Models

Brand:	Model:	Model Years:	VIN:		Engine:	Transmissions:
			from	to		
Cadillac	CTS-V	2015 - 2018	All	All	6.2L LT4	All
Cadillac	Escalade	2015 - 2018	All	All	6.2L L86	All
Chevrolet	Camaro	2016 - 2018	All	All	6.2L LT1 LT4	All
Chevrolet	Corvette	2014 - 2018	All	All	6.2L LT1 LT4	All
Chevrolet	Silverado	2014 - 2018	All	All	4.3L 5.3L 6.2L LV3 L83 L86	All
Chevrolet	Suburban	2015 - 2018	All	All	5.3L L83	All
Chevrolet	Tahoe	2015 - 2018	All	All	5.3L L83	All
GMC	Sierra	2014 - 2018	All	All	4.3L 5.3L 6.2L LV3 L83 L86	All
GMC	Yukon Models	2015 - 2018	All	All	5.3L 6.2L L83 L86	All

Involved Region or Country	North America
Condition	<p>Customers may have a Corvette that exhibits one of the following conditions:</p> <ol style="list-style-type: none"> <li>1. Stalling, Shudder and/or Hard shifting into 1st gear or Reverse for manual transmission or Stalling after a driveline replacement.</li> <li>2. Auto transmission it could be a vibration on takeoff or clunk noise.</li> </ol> <p>Customers may have a Truck, SUV, Camaro, CTS –V that exhibits the following conditions: Engine knock noise.</p>
Cause	Clunk when shifting into reverse or drive (automatic) The crankshaft and or Thrust Bearing needs to be replaced, please use following information before considering a crankshaft replacement.

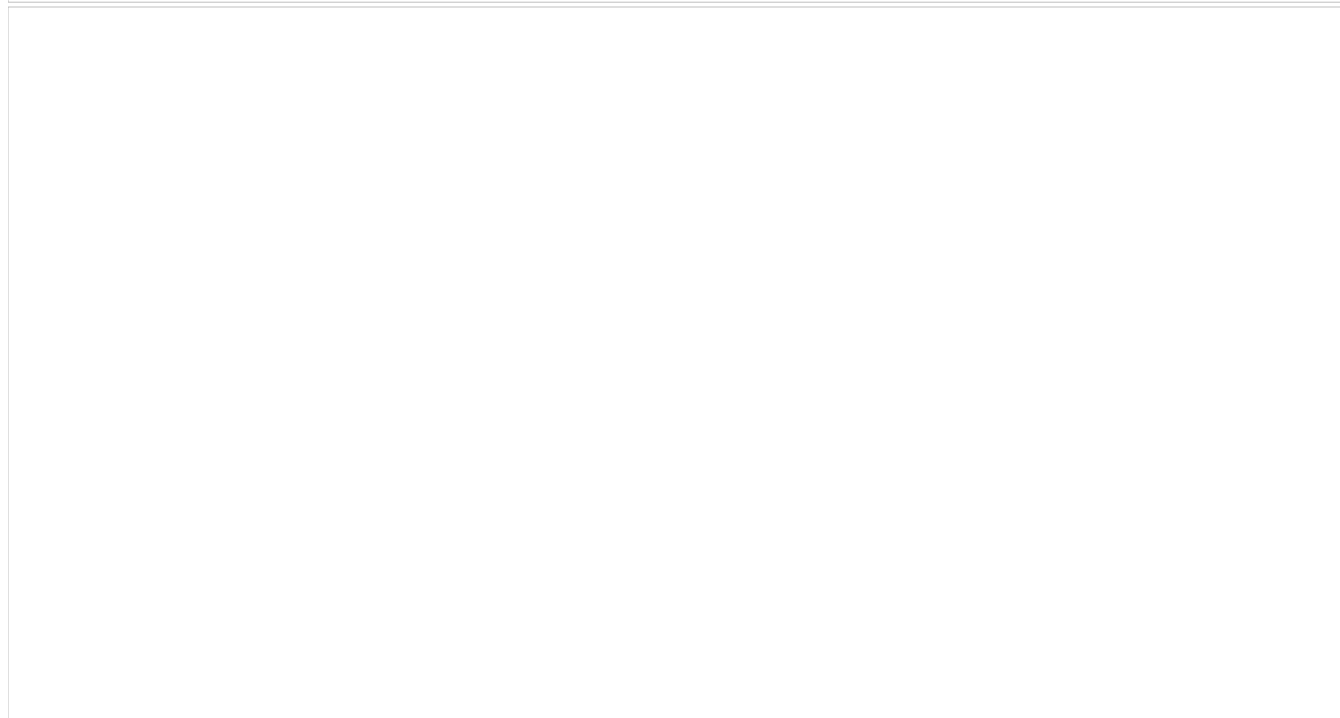
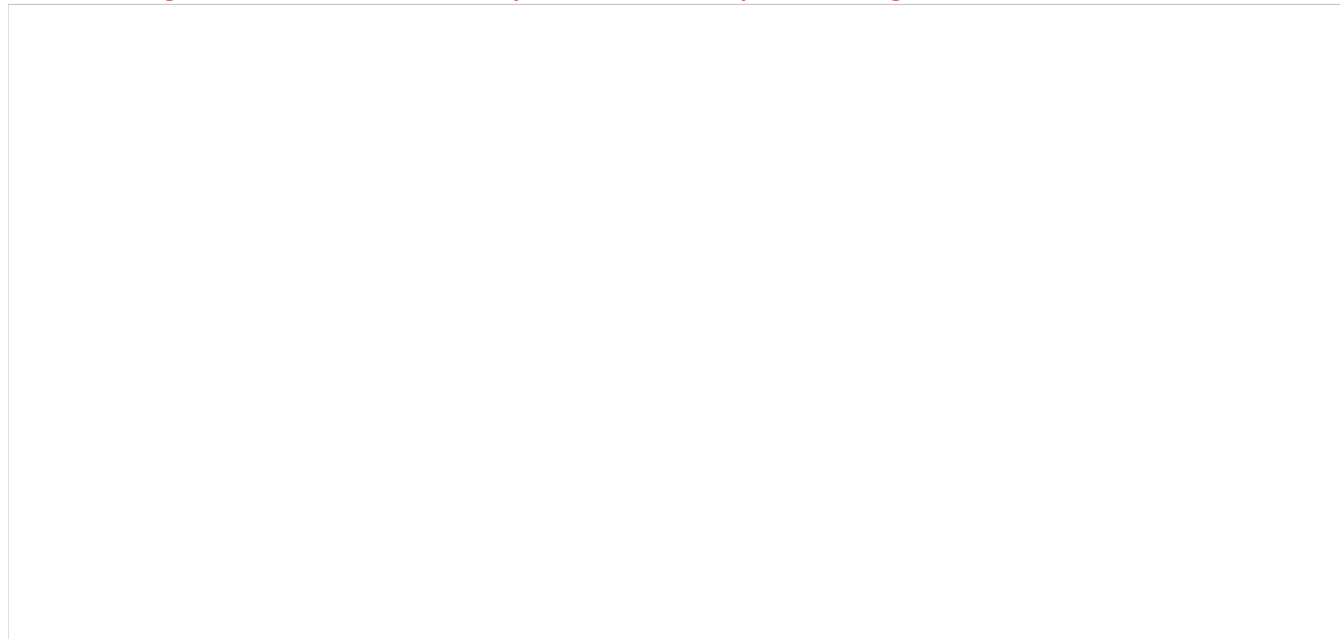
## Correction:

This concern could be caused by excessive crankshaft end play.

Check to determine if the crank shaft end play is within specification 0.0015–0.0086 in (0.040–0.220 mm). See eSI.

If end play is found to be out of specification, remove engine and inspect for possible Crankshaft thrust bearing and/or crankshaft for wear.

Note: If bearings and crankshaft look like components in attached picture, damage has not occurred.



Inspect thrust bearing for wear on one side and crankshaft on that “mating” surface.  
If wear is evident (3 vertical channels worn off) replace connecting rod bearings, main bearings, thrust bearing and crankshaft.

**Corvette Only**

For this repair the oil tank with lines and oil cooler are both required to be replaced if equipped.

Note: Be sure to follow all SI documents for DSA replacement

**For all other Crankshaft concerns**

· As always, Please be sure to complete the SI diagnostics and the Cost Comparison Worksheet for Assembly Repair vs Replacement to determine if the engine requires a repair or replacement

· Be sure to Follow the latest version of [09-06-04-026G](#) to verify the ECM calibration is not an Aftermarket cal.

Note; It is required on dry sump engines, the oil tank and lines should be replaced when replacing and/or repairing the engine.

Also Note; If equipped, the oil cooler is also required to be replaced.

If the customer prefers to KEEP the original numbers matching engine please call TAC for repair direction.

**Warranty Information**

Labor Operation	Description	Labor Time
4066750	Crankshaft Replacement	Use Published Labor Operation Time
*This is a unique Labor Operation for Bulletin use only.		

**Version History**

Version	1
Modified	



