



Preliminary Information

PIP5527D Drivability Concerns Caused By Intake Rocker Arm Oil Control Valve - Chuggle Surge Misfire P0101 P0106 P0171 P0300 P219A P16D0 P16D1 P2646 P2647

Models

Brand:	Model:	Model Years:	VIN:		Engine:	Transmissions:
			from	to		
Chevrolet	Impala (VIN 1)	2014 - 2015	All	All	2.5 LKW	All
Chevrolet	Malibu	2014 - 2015	All	All	2.5 LKW	All

Involved Region or Country	North America
Condition	A customer may comment their vehicle exhibits any combination of these concerns: surges while driving, runs rough at idle, misfires while driving, MIL is illuminated and may have any combination of trouble codes P0101 P0106 P0171 P0300 P16D0 P16D1 P2646 P2647. During diagnosis the technician may find engine misfires on cylinders 1 and 2 or cylinders 3 and 4. Technician may also find P219A set and no misfire counts seen using GDS or felt by the driver.
Cause	The intake rocker arm oil control valve may have an internal electrical or mechanical concern.

Correction:

If diagnostic procedures in service information do not resolve the vehicle's concern, remove and inspect the intake rocker arm oil control valve for missing components.

See illustrations below for items #1 being missing.

If any of the components are missing, replace the intake rocker arm oil control valve and camshaft cover.

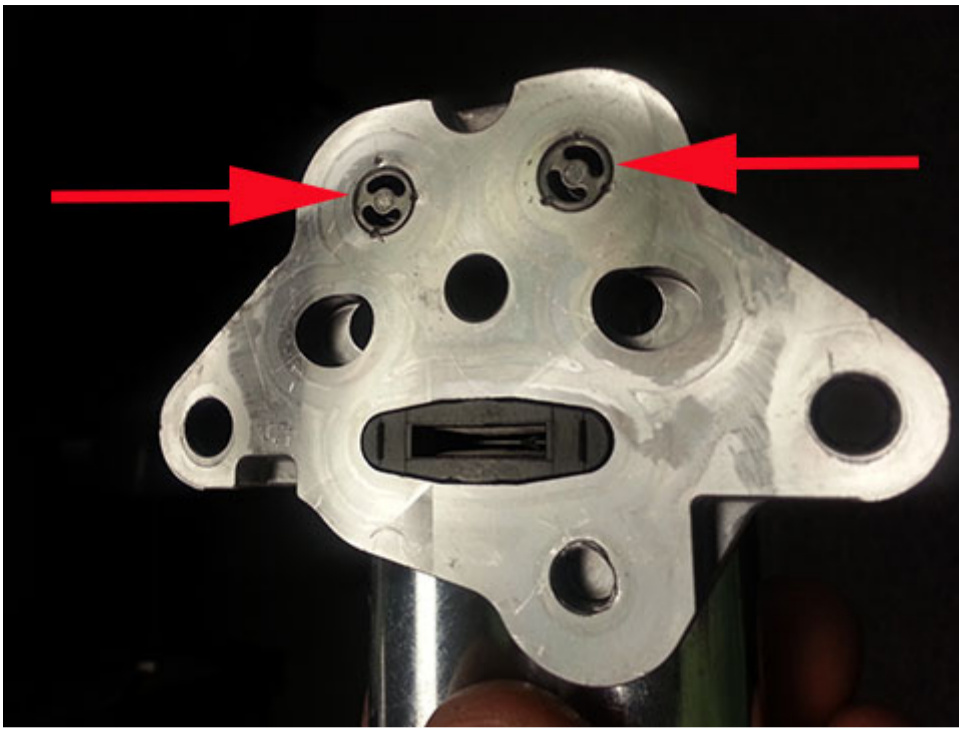
The camshaft cover must be replaced because the components become lodged in the camshaft cover oil passages and can not be removed.

If the intake rocker arm oil control valve is not missing any components, only replace the intake rocker arm oil control valve.

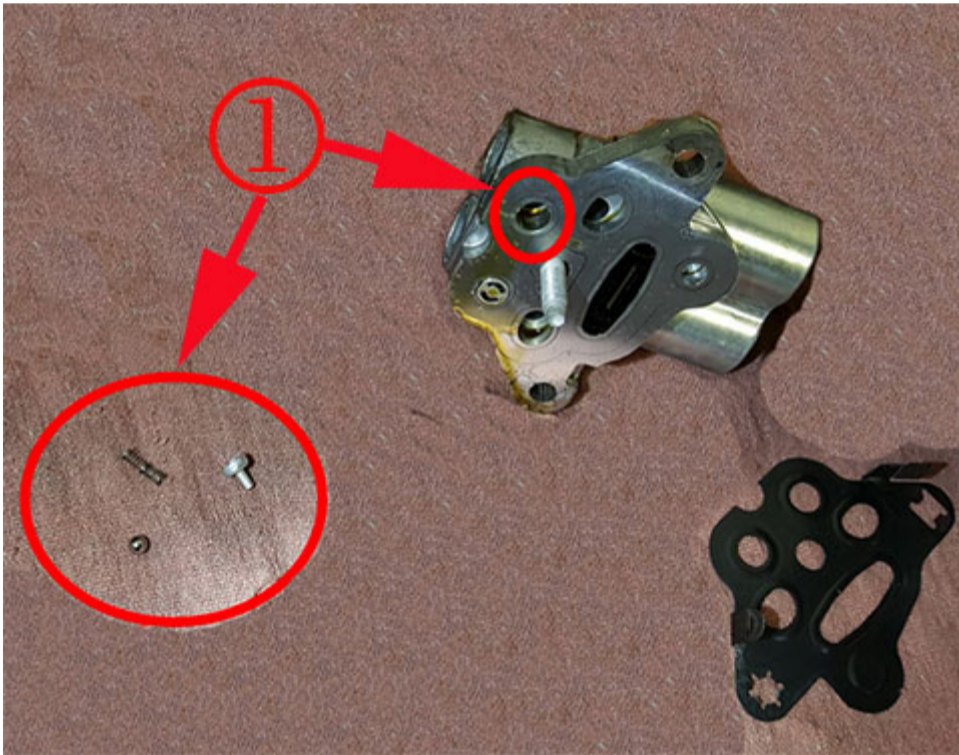
NOTE: If a previous rocker arm control solenoid came apart and pieces are stuck in the cam cover passages, this can cause any of the concerns to happen even when a new rocker arm control solenoid is installed.

Evaluate the vehicle thoroughly after repairs to verify the concern(s) are corrected.

This is a good valve with components still in place.



This is a bad valve with components missing.



Parts Information

Description	Part Number	Quantity
Valve, Valve Rocker Arm Oil Control	12633613	1
Cover, Camshaft	12658255	1

Warranty Information

For vehicles repaired under the Powertrain coverage, use the following labor operation. Reference the Applicable Warranties section of Investigate Vehicle History (IVH) for coverage information.

Labor Operation	Description	Labor Time
4023940	Valve Rocker Arm Oil Control Valve Replacement	Use Published Time
4060930	Camshaft Cover Replacement	Use Published Time

Version History

Version	5
Modified	10/02/2017 - Created on 01/10/2019 - updated to edit correction section. 03/07/2019 - Updated to edit condition and correction sections. 06/18/2019 - Updated keywords and condition section. 07/30/2019 - Updated warranty information section.



GENERAL MOTORS

© 2019 General Motors. All Rights Reserved.