



Preliminary Information

PIP5849A LUV/LUJ Intermittent P0299 Codes

Models

Brand:	Model:	Model Years:	VIN:		Engine:	Transmissions:
			from	to		
Buick	Encore	2013 - 2022	All	All	1.4L LUV	All
Chevrolet	Cruze	2011 - 2016	All	All	1.4L LUV	All
Chevrolet	Cruze	2011 - 2016	All	All	1.4L LUJ	All
Chevrolet	Sonic	2012 - 2020	All	All	1.4L LUV	All
Chevrolet	Trax	2013 - 2022	All	All	1.4L LUV	All

Involved Region or Country	North America
Condition	<p>Some customers may comment that when driving their vehicle may experience one or several of the following conditions:</p> <p>Loss of power. Smoke out the tail pipe. Hesitation on acceleration. Stalling condition. Burning oil odor possibly caused by oil leak. May also notice a Malfunction Indicator Lamp illuminated. After driving for a period, the drivability issues seem to diminish. Malfunction Indicator Lamp (MIL) Illuminated. This condition may also cause an increase in crankcase pressure, creating oil leaks at seals and gaskets.</p> <p>The technician may find one or more of the following DTCs set:</p> <p>P0299 P00C7 P0234 P2227 P2261</p>
Cause	This condition may be caused by contamination (Water/oil/Sludge) at Charge Air Bypass Valve

Correction:

If contamination (water /oil/sludge) at Charge Air Bypass Valve found, then clean the Charge Air Bypass Valve

- Clean the Charge Air Bypass Valve
- Replace the Intake manifold
- Replace Charge Air Bypass Valve only if necessary

Turbocharger and Intake Manifold and Cylinder Head Inspection

1. Inspect the Charge Air Bypass Valve for oil/water/sludge build-up in the vacuum side port.



- If oil/water build up in the valve port, disassemble and clean the components. Refer to SI document titled "Charge Air Bypass Valve Replacement".
- Only if necessary, replace the components.

Desired boost pressure vs actual boost pressure not within limits and no trouble found on waste gate actuator or No excessive play/no damage from turbocharger - Then Do Not replace turbocharge, Clean Charge Air Bypass Valve and replace Intake manifold.

2. Remove the intake manifold. Refer to SI document titled "Intake Manifold Removal".





- 3. Inspect the vacuum ports of the intake manifold for ice/water/oil accumulation.
- 4. Inspect the PCV intake runner for ice build-up, or sludge blocking the cylinder head as shown above.
- 5. Clean any ice/sludge/water/carbon out of the cylinder head, cam cover and PCV pipes.

If above condition exists then, replace the Intake manifold. Refer to SI document titled "[Intake Manifold Replacement](#)".

Parts Information

Description	Part Number	QTY
MANIFOLD, INTAKE	28289977	1
VLV, CHRГ AIR BYPASS	55590593	1

Warranty Information

Note: Only select the Labor Operation that corresponds with the repair performed.

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	VEHICLE	TIME
4088558*	INSPECTION AND CLEANING	ALL	0.3 HR.
ADD	INTAKE MANIFOLD INSPECTION, CLEANING REPLACEMENT	ENCORE	1.0 HR.
ADD	INTAKE MANIFOLD INSPECTION, CLEANING REPLACEMENT	CRUZE	1.4 HR.
ADD	INTAKE MANIFOLD INSPECTION, CLEANING REPLACEMENT	SONIC	1.5 HR.
ADD	INTAKE MANIFOLD INSPECTION, CLEANING REPLACEMENT	TRAX	1.0 HR.
ADD	CHARGE AIR BYPASS VALVE CLEANING OR REPLACEMENT	ALL	1.3 HR.
*This is a unique Labor Operation for bulletin use only.			

Version History

Version	2
Modified	04/20/2022 - Created. 05/27/2022 - Updated to add to correction.



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