



Bulletin No.: PIP5651E

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Preliminary Information

PIP5651E Possible Charge Air Cooler Outlet Hose Disconnected From Throttle Body And One or More of The Following DTCs P0172, P0299, P0101, P0506, P1101

Proactive

Product Investigation Review Required

Models

Brand:	Model:	Model Years:	VIN:		Engine:	Transmissions:
			from	to		
Chevrolet	Equinox	2018 - 2022	All	All	1.5 LYX	All
Holden	Equinox	2018 - 2020	All	All	1.5 LYX	All
Chevrolet	Malibu	2018 - 2022	All	All	1.5 LFV	All
GMC	Terrain	2018 - 2022	All	All	1.5 LYX	All

Involved Region or Country:	North America
Condition:	Reduced engine power and one or more of the following DTC's may be present DTC's P0172, P0299, P0101, P0506, P1101.
Cause:	Charge air cooler outlet hose may be disconnected from throttle body.

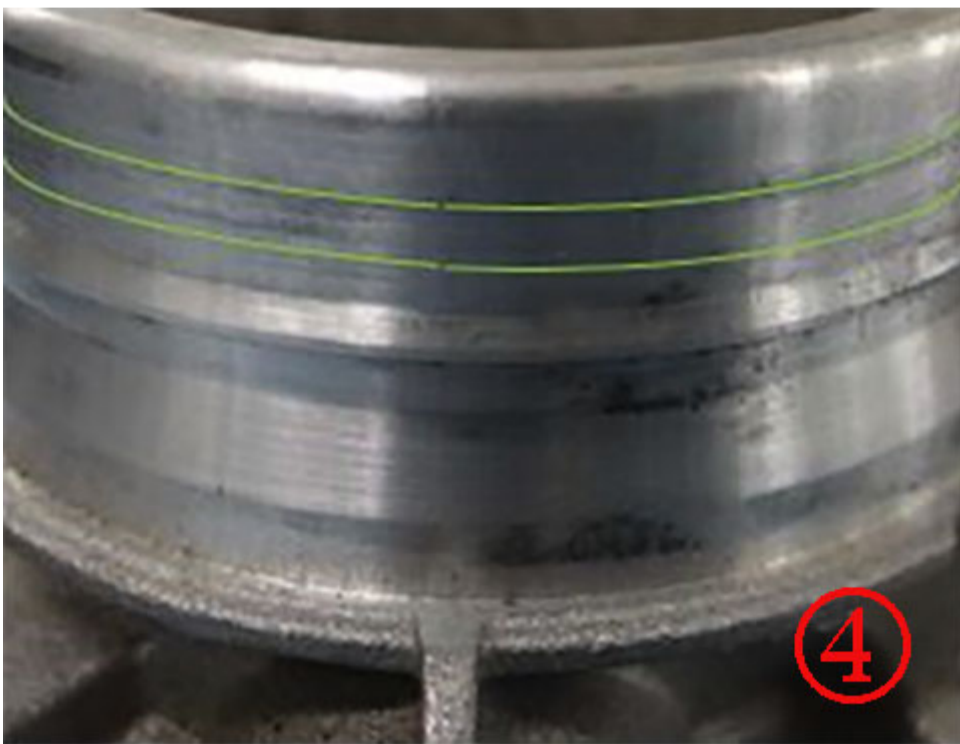
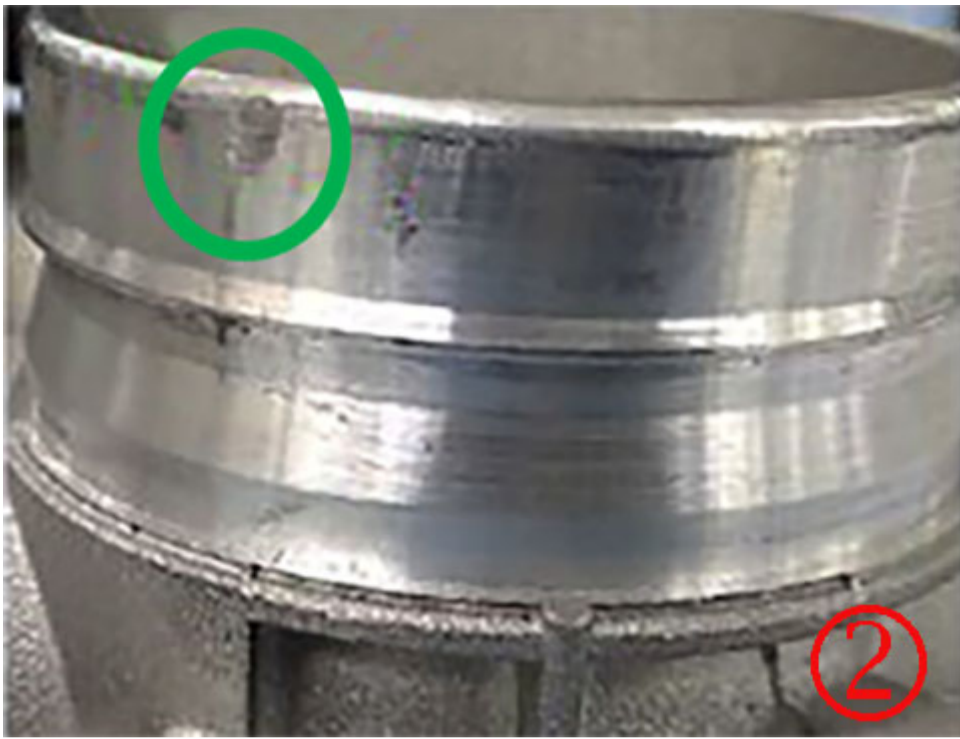
Correction

Confirm the connection of the charge air cooler outlet pipe at the throttle body. If the charge air outlet tube is not disconnected from the throttle body proceed with published SI diagnostics for the failed DTC's.

If the tube is disconnected from the throttle body, inspect the charge air cooler tube and throttle body for damage. In rare cases either are damaged then replace the damaged part (reference photos below showing). The throttle body and mass airflow (MAF) sensor associated with the listed codes should only be replaced if they are damaged or found to be the cause of the code.

Photos 1-4 below show normal witness marks on the throttle body and normally will not require replacement.





Photos 5-7 below show abnormal witness marks or damage to throttle body and replacement would be required.





When the charge air cooler outlet tube has become disconnected from the throttle body, the tube end should be inspected for contact damage or a missing O-ring seal from blowing off.

If the tube is found to be damaged or the O-ring seal is missing replace the tube assembly.

It is also possible that retainer is damaged and it will need to be replaced as well.

Use the vehicle identification number (VIN),SI, and the GM Electronic Parts Catalog to determine the correct part(s) to order.

Possible additional repairs are covered in Service Update [N192266090](#).

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:
4086948	Install Charge Air Tube Retainer Kit	0.4 Hr.
Additional Times If Needed		
4022880	Replace Charge Air Cooler Tube	Use Published Labor Time
4087138	Throttle Body Replacement	0.2 Hr.

Version History

Version	6
Modified	05/21/2019 - Created on 06/12/2019- To add additional information regarding throttle body or MAF sensor replacement 06/20/2019- Added statement to use the vehicle identification number (VIN), SI, and the GM Electronic Parts Catalog to determine the correct part to order. 07/30/2019- Updated to advise that if the charge air cooler hose becomes disconnected from the throttle body to inspect the inside of the tube for a missing O-ring seal and replace the CAC tube if damaged or the O-ring is missing 08/14/2019 Updated to include throttle body photos and change labor ops



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