



Preliminary Information

PIP5651D 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 | 2019 | All | All | 1.5 LYX | All |
| Holden | Equinox | 2019 | All | All | 1.5 LYX | All |
| Chevrolet | Malibu | 2019 | All | All | 1.5 LFV | All |
| GMC | Terrain | 2019 | 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. |

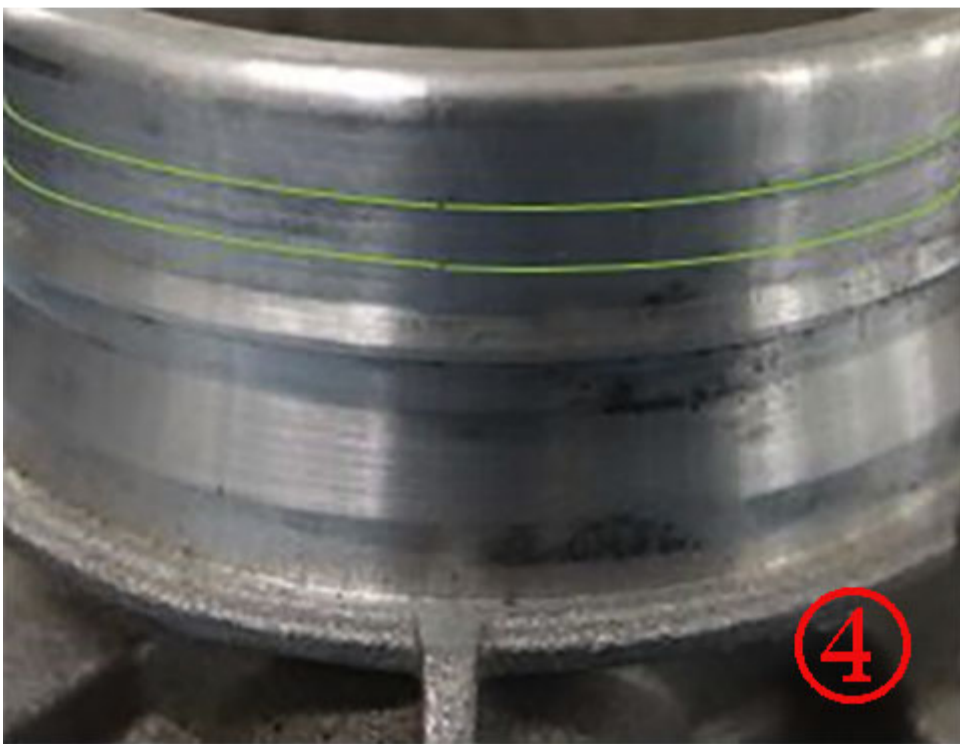
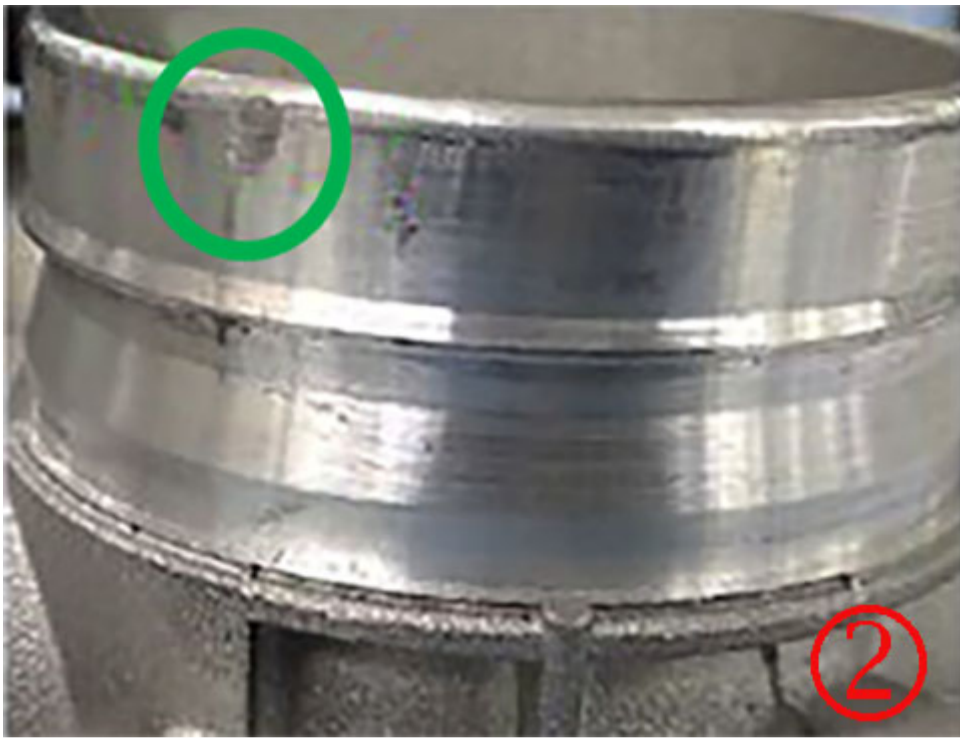
Correction

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

Note: If the charge air cooler tube has become disconnected and the O-ring seal is not missing and the tube end is not damaged contact the Warranty Parts Center using the attached request form to order a charge air cooler outlet tube retainer kit. This retainer kit includes a spring, 2 retainers and installation instructions. Complete the WPC form below.

Order WPC part number 836

The Retainer Kit can be obtained from the Warranty Parts Center (WPC) using the TSP Dealer Request Form

This form is located on:

[Global Connect](#)<[Service Department](#)<[Service Forms Application](#)<[General Information tab](#)<[TSP Dealer Request Form](#).

Instructions for submitting are on the form.

[Request WPC 836](#)

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 | 5 |
| 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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