



Service Bulletin

File in Section: -

Bulletin No.: PI0907A

Date: August, 2013

PRELIMINARY INFORMATION

Subject: Check Engine Light On with DTC P1101 Set

Models: 2013 Buick Encore
2011-2013 Chevrolet Cruze
2012-2013 Chevrolet Sonic
2013 Chevrolet Trax
Equipped with 1.4L Engine (RPOs LUJ, LUV)

This PI has been revised to update the Recommendation/Instructions and update the Labor Operation to the Global Labor Code (GLC). Please discard PI0907.

Condition/Concern

Some customers may comment on a check engine light on. Technicians may find DTC P1101 set.

Recommendation/Instructions

Parameter Name	Control Module	Value	Unit
Turbocharger Bypass Solenoid Valve Command	Engine Control Module	Inactive	
Turbocharger Bypass Solenoid Valve Control Circuit Low Voltage Test...	Engine Control Module	OK	
Turbocharger Bypass Solenoid Valve Control Circuit High Voltage Test...	Engine Control Module	Not Run	
Parameter Name	Control Module	Value	Unit
Throttle Position Sensor	Engine Control Module	20.8	%
Throttle Position	Engine Control Module	10.5	%
ECT Sensor	Engine Control Module	167.00	°F
Start-Up ECT	Engine Control Module	158.00	°F
Start-Up IAT Sensor 1	Engine Control Module	77.00	°F

Turbocharger Bypass Solenoid Valve

Commanded State Uncommanded

Release Control

Off On

3274363

If normal SI diagnosis does not resolve DTC P1101, check the throttle position angle. A good throttle position at idle should be between 8-12%. Make sure the engine is warm and the A/C or defrost mode is OFF.

A bad throttle position reading would be less than 7% and that would indicate unmetered air is getting into the intake. If the throttle position percentages remain low and DTC P1101 still sets, refer to SI for further diagnosis.

A missing or mispositioned air baffle in the air cleaner box could cause the TPS readings to be low and the vehicle setting P1101. Verify the air baffle is in the proper place before continuing with diagnostics. Refer to the pictures below.



3581987



3581988

Another area to check for this is the PCV pipe with the back pressure valve open at the turbocharger air inlet. Remove the PCV pipe from the intake manifold and put a piece of tape over the opening. If the throttle position goes back to normal percentages, replace the PCV pipe following the steps below:

1. Open the hood and install fender covers.
2. Remove the air cleaner outlet duct.
3. Disconnect the PCV pipe from the intake manifold.
4. Disconnect the PCV pipe from the turbo inlet.
5. Remove the PCV from the retainers.
6. Cut away tape from the vacuum line on the PCV pipe.
7. Remove the PCV pipe.
8. Install the new PCV pipe.
9. Install vacuum line on to the PCV pipe with tape.
10. Install retainers to the PCV pipe.
11. Connect the PCV pipe to the turbo inlet.
12. Connect the PCV pipe to the intake manifold.
13. Install the air cleaner outlet duct.
14. Remove the fender covers and close the hood.

Parts Information

Part Number	Description
55568267	PIPE, PCV

Warranty Information

For vehicles repaired under the U.S. (8 years/80,000 miles) or Canadian (8 years/130,000 km) Emission Warranty, use:

Labor Operation	Description	Labor Time
4068498*	Diagnose and Replace PCV Pipe	0.4 hr

*This is a unique labor operation for bulletin use only. It will not be published in the Labor Time Guide.