



Preliminary Information

PIC6460 Hood Ajar Message Displayed

Models

Brand:	Model:	Model Years:	VIN:		Engine:	Transmissions:
			from	to		
Chevrolet	Impala	2014 - 2020	All	All	LKW, LCV	All

Involved Region or Country	North America
Condition	A Customer may comment that the hood ajar message is displayed on the DIC with the hood completely closed. The check engine light may also be illuminated and a P257D for engine hood switch performance is present.
Cause	Inspect for coolant leaking from the coolant temperature sensor connector wicking up circuits 410 and 2761 from the coolant temp sensor to the ECM connector X3 at Pins 7, 8, 23, and 24. This may cause a short across circuits 5350 and 470 at pins 7 and 23 which is the hood open switch signal and sensor low reference.

Correction:

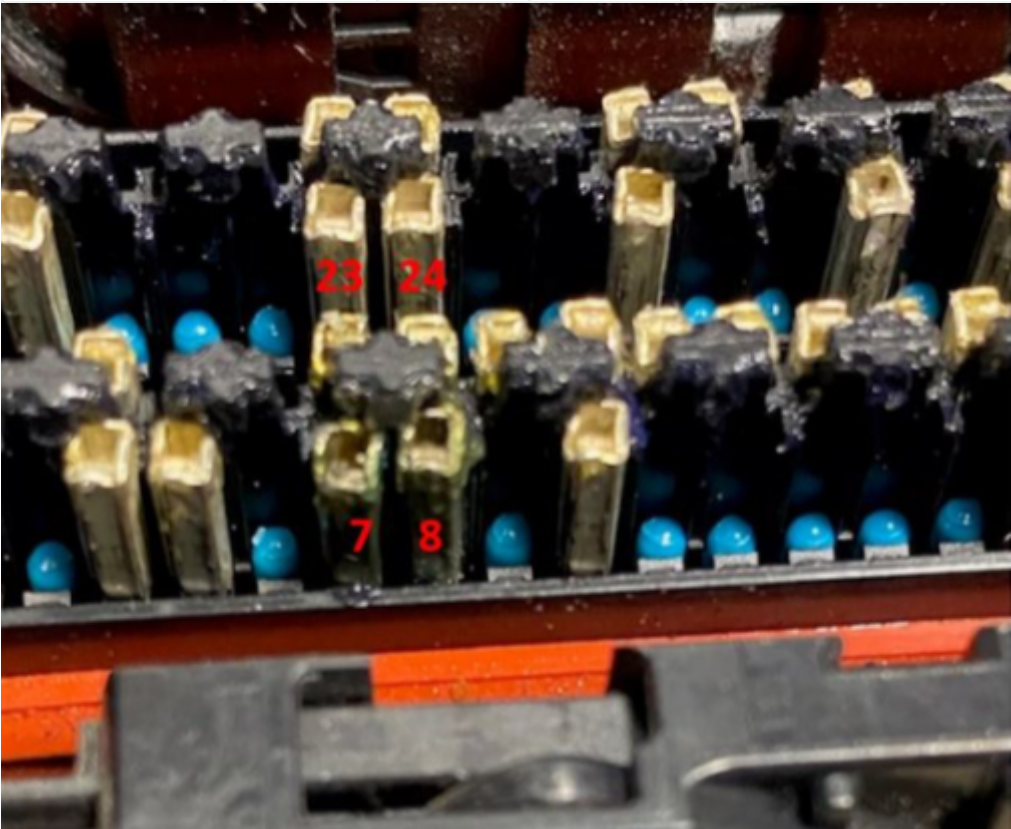
1. Inspect for coolant leaking internally from the ECT sensor by disconnecting the sensor connector.



2. Trace the circuits back to the X3 connector at the ECM and inspect for coolant contamination / corrosion.



Pin	Size	Color	Circuit	Function
23	0.5	BK/VT	470	Sensor Low Reference
24	0.5	BK/BN	2761	Coolant Temperature Sensor Low Reference
7	0.5	YE	5530	Hood Open Switch Signal
8	0.5	D-BU	410	Engine Coolant Temperature Signal



3. If coolant corrosion or discoloration is found, replace circuits 410 and 2761 from the engine coolant temperature sensor (ECT) to ECM connector X3. Replace the coolant temperature sensor and replace or clean connector X3 at the ECM.

Note: This PI will be updated or changed to a bulletin as more information becomes available.

Parts Information

Description	Part Number	Quantity
Terminated lead at ECM	Refer to EPC/SI	2
Sensor, Engine Coolant Temp	Refer to EPC	1
Connector, Engine Coolant Temp Sensor	Refer to EPC/SI	1

Warranty Information

For vehicles repaired under the Bumper-to-Bumper coverage (Canada Base Warranty coverage), use the following labor operation. Reference the Applicable Warranties section of Investigate Vehicle History (IVH) for coverage information.

Labor Operation	Description	Labor Time
4025300	Engine Coolant Temp Sensor Replacement	0.3 add 0.3 to fill Coolant.
5430902	Wire-to-Wire Repair	0.5

Version History

Version	1
Modified	05/24/2022 - Created on.



GENERAL MOTORS

© 2022 General Motors. All Rights Reserved.