



Preliminary Information

PIP5804 Diagnostic Tip: Possible Engine Overheating Or Running Hot With Engine Over Temperature Message Displayed On Driver Information Center

Proactive

Models

Brand:	Model:	Model Years:	VIN:		Engine:	Transmissions:
			from	to		
Cadillac	CT4	2020 - 2021	All	All	2.0 LSY	All
Cadillac	CT5	2020 - 2021	All	All	2.0 LSY	All
Cadillac	XT4	2019 - 2021	All	All	2.0 LSY	All
Cadillac	XT5	2020 - 2021	All	All	2.0 LSY	All
Chevrolet	Blazer	2020 - 2021	All	All	2.0 LSY	All
GMC	Acadia	2020 - 2021	All	All	2.0 LSY	All

Involved Region or Country:	North America
Condition:	Possible Engine overheating with Engine over temperature message displayed on Driver Information Center (DIC).
Cause:	Possible inaccurate #1 Engine Coolant Temperature Sensor (ECT).

Correction

Using GDS confirm the accuracy of the #1 Engine Coolant Temperature Sensor (ECT) by comparing readings of Engine Coolant Temperature Sensors 2, 3, 4, 5 and 6 to the #1 ECT reading. This can be done by allowing the engine to cold soak for several hours then using GDS review the 6 Engine Coolant Temperature Sensor readings at key on engine off to verify there within a few degrees of each other. The ECT readings can be compared to a like vehicle under similar test conditions with same engine RPO options.

Also the resistance of the #1 Engine Coolant Temperature Sensor can be measured and compared to the latest Temperature vs Resistance chart located in Service Information.

Data has shown that a #1 Engine Coolant Temperature Sensor that is reading several degrees colder than ECT sensors 2, 3, 4, 5 and 6 could cause a potential engine over temperature message to display in the (DIC) Driver Information Center and the engine coolant temperature to operate at elevated levels.

Please continue with published SI diagnostics for the vehicles condition if the #1 Engine Coolant Temperature sensor is functioning as designed.

Version History

Version	1
Modified	05/05/2021 - Created on.



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