




Preliminary Information

PIP5483C Normal Characteristics After Vehicle is Turned Off 1.6 LH7 Diesel

Models

Brand:	Model:	Model Years:	VIN:		Engine:	Transmissions:
			from	to		
Chevrolet	Cruze	2017 - 2019	All	All	1.6L Turbo Diesel (LH7)	All
Chevrolet	Equinox	2018 - 2019		All	All	1.6L Turbo Diesel (LH7)
GMC	Terrain	2018 - 2019	All	All	1.6L Turbo Diesel (LH7)	All

Involved Region or Country	North America
Condition	A dealer may encounter a customer concern of the cooling fan running, a ratcheting, squeak, chirp, moan, and whine or buzz type noises heard shortly after the vehicle has been turned off.
Cause	<p>There are some components that may produce noises shortly after the engine has been turned off:</p> <p>1-The Intake Manifold Runner Control Valve Actuator may be heard cycling under the hood.</p> <p>1.1 This is done as an integrity check and to confirm that the mechanical link between the actuator and the intake manifold runner is still connected. See Pic below.</p>  <p>2- The Diesel Exhaust Fluid (DEF) Pump and DEF Reverting Valve purging DEF.</p> <p>2.1 The Diesel Exhaust Fluid (DEF) Pump and DEF Reverting Valve may be heard from the vehicle and/or right rear of the vehicle. When the vehicle is turned off the DEF pump and reverting valve operate to relieve the DEF system pressure and to clear the lines of DEF. The reverting valve is opened to relieve the pressure and send the fluid back to the DEF tank, and then the reverting valve is closed once the DEF lines are clear.</p>

	<p>3- When the vehicle is shut off while a particulate filter cleaning process in active, the cooling fan will run for two minutes to cool of the particulate filter.</p> <p>3.1 The cooling fan running after shutting off the vehicle and it may be accompanied by a hot odor.</p>
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Correction:

The noises below are considered to be normal operating characteristics of the vehicle.

It will not impact the designed performance or reliability of the vehicle.

U.S Dealers:

The noises described above were discussed in and samples are available to listen to on the GM Center of Learning web site, centerlearning.com, in course number 10217.03V, March 2017 Emerging Issues which will be available by March 9th. It will be in the Powertrain segment.

Canadian Dealers:

Watch for this topic in the April 2017 TAC Talk Powertrain segment; on the GM Canada Centre of Learning website.

Version History

Version	4
Modified	03-10-2017- Created 10-17-2018- Updated to add 2018 Model Year 11-08-2018 - Updated models and model years. 04-10-2019- Updated Subject line, and Conditon/Concern.



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