



Preliminary Information

PIT5540A Low Volt Gauge Reading after Cold Start

Models

Brand:	Model:	Model Years:	VIN:		Engine:	Transmissions:
			from	to		
Chevrolet	Silverado 2500/3500	2015 - 2019	All	All	6.6L	All
GMC	Sierra 2500/3500	2015 - 2019	All	All	6.6L	All

Involved Region or Country	North America and N.A. Export Regions
Additional Options (RPO)	With 6.6L Diesel Engine
Condition	Some owners may comment of a low voltage reading on the volt gauge during the first several minutes after a cold start.
Cause	During a cold engine start (i.e. Engine Coolant Temp is below 100 degs F or 40 degs C), the intake air heater and the glow plugs are commanded on to help reduce emissions and improve cold weather drivability. The intake air heater and glow plugs can each draw over 100 amps when at 100% duty cycle. These two loads in addition with the normal loads from the vehicle (examples: auxiliary electric heater, hvac blower, lights, wipers, heated seats, etc.) can exceed the max generator output (150 amp in most cases). Due to these high current loads a low voltage reading may be displayed during the first several minutes after a cold start.

Correction:

If this concern only occurs during the first several minutes of a cold start, no repairs should be made. This is a normal operating characteristic of vehicles equipped with the diesel engine.

Version History

Version	2
Modified	01/09/2017 - Created on 04/08/2019 -Updated the model years



GENERAL MOTORS