



# Preliminary Information

## PIT5984 Diagnostic Tip: Starter Stays Engaged After Engine Starts Then After Approximately 10 Seconds Engine Shuts Off

Models

Brand:	Model:	Model Years:	VIN:		Engine:	Transmissions:
			from	to		
Chevrolet	Silverado 1500 (New Model)	2019	All	All	L82, L84, or L87	All
Chevrolet	Silverado 1500	2020 - 2021	All	All	L82, L84, or L87	All
Chevrolet	Silverado 1500 LTD (RPO J21, VIN Digit 5 = W or Y)	2022	All	All	L82, L84, or L87	All
GMC	Sierra 1500 (New Model)	2019	All	All	L82, L84, or L87	All
GMC	Sierra 1500	2020 - 2021	All	All	L82, L84, or L87	All
GMC	Sierra 1500 Limited (RPO J21, VIN Digit 5 = 8 or 9)	2022	All	All	L82, L84, or L87	All

Involved Region or Country	North America
Condition	<p>Some customers may comment when starting their vehicle the starter stays engaged, even after the engine is running.</p> <p>Then after approximately 10 seconds the starter times out and the engine shuts off.</p> <p>They may notice while this is occurring the IPC is blank and once the engine shuts off the IPC turns back on.</p> <p>When checking ECM data parameters with the scan tool, (Crank/Cam Signals, MAF, MAP, Injector Pulse, RPM, timing) there will be nothing abnormal.</p> <p>The power mode data will show it is commanding a crank request, even after the engine is running.</p> <p>These symptoms would indicate that the ECM does not know that the engine is actually running and then after approximately 10 seconds the starter times out and the engine shuts down.</p>
Cause	This concern could be caused by the B26 crankshaft position sensor.

Correction:

To correct this concern, replace the B26 crankshaft position sensor with a GM part.

TIP: If a pico scope is available, the crankshaft position sensor signal can be monitored and compared to a known good pattern. In most cases, the top of the signal is very erratic and this is typically found when an aftermarket crankshaft position sensor is installed.

### Additional SI Keywords

stall

### Version History

Version	1
Modified	2/15/2023 - Created.



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