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Preliminary Information

PIC6464 Variable Red Line Tachometer

<u>Models</u>

Brand:		Model:	Model Years:	VIN:		Engine	Transmissions	
				from	to	Engine.	THANSINISSIONS.	
Chevrolet		Corvette	2014 - 2019	All	All	All	All	
Involved Region or Country	North A	merica				- -		
Condition	Some cu depend decreas	ustomers may co ing on when the es while the veh	omment that the redlin y are looking at it. Som icle is being driven.	e indicator ne custome	r on th ers ma	e IPC of the ve y also comme	hicle will change, nt that it increases and/or	
Concern	This cor Dynami of the e	ncern can be attr c Engine Redline ngine. As the er	ributed to a feature on e. This is a feature that ngine warms up, the rec	the Corvet utilizes a v lline becor	te C7 § ariable nes hi	generation call e redline, depe gher.	ed Variable Redline, or ending on the temperature	
	This is a normal feature that helps to protect the powertrain of these vehicles from unnecessary abuse before the system has had a chance to properly warm up. If the vehicle is idling in neutral or park, and the accelerator pedal is depressed, the ECM will not allow the engine RPM's to go higher than the current redline that is indicated by the red segments that surround the tachometer. If the vehicle is in gear, however, and the accelerator is depressed, the ECM will allow the engine RPM to exceed the suggested redline that is indicated by the cluster.							
	The variable redline feature is strictly related to the colored segments on the outside perimeter of the tachometer. Actual tachometer functionality is not affected by this. The three pictures seen below show the different stages that this feature may display as the engine cooling system is warming up.							
	The first picture can be seen with a "cold" engine coolant temperature (ECT) reading taken just as the vehicle's engine was first started for the day. The redline reading can be seen at the 4,500 RPM mark.							
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The second picture was taken as the vehicle has been started and allowed to warm up for a few minutes. Notice how the redline has increased to the 5,500 RPM mark.



<u>Correction:</u> If a customer has a concern with an intermittent or toggling redline, as indicated by the red LED segments on the outer edge of the tachometer, the dealership technician should check the ECT reading in the scan tool.

When the concern is acting up, the reading will also be erratic in nature.

The wiring to and from the sensor, as well as the sensor operation itself, should be inspected for any loose connections, terminal issues, etc. and repaired as needed.

Version History

Version	1
Modified	7/15/2022 - Created



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