



Preliminary Information

PIT5695C Diagnostic Tip - Brake Pad Life % Calculates Down too Quickly and/or Service Brake Pad Monitor System DTC C116B SYM59 and/or C116C SYM59

Models

Brand:	Model:	Model Years:	VIN:		Engine:	Transmissions:
			from	to		
Chevrolet	Silverado 1500 (New Model)	2019	SOP	Ft Wayne-1GCRYDED0KZ413442, Silao-3GTP9EED9KG293960	All	All
GMC	Sierra 1500 (New Model)	2019	SOP	Ft Wayne-1GCRYDED0KZ413442, Silao-3GTP9EED9KG293960	All	All

Involved Region or Country	North America
Condition	Some customers may notice a quick drop in the brake pad life % shown on the DIC, which may not be reflective to the actual pad wear. In some cases, the customer may comment of a Service Brake Pad message with DTC(s) C116B SYM59 and/or C116C SYM59.
Cause	This concern could be cause by a software anomaly.

Correction:

To correct this concern follow the latest version of [N192264451](#): Customer Satisfaction Program - Premature Brake Wear Notification.

Additional Information on the Brake Pad Life system and DTC's C116B SYM59 and C116C SYM59:

- The Brake System Control Module (BSCM) uses an algorithm to calculate the remaining brake pad life %. In addition to the algorithm, there is one pad wear sensor at the left front brake pad and one at the left rear brake pad. The wear sensor has three circuits, which successively open as they wear through at different pad thicknesses. As the pad wears and it reaches the first of the three circuits, it will open, and the BSCM will then tailor the calculation to either speed up, slow down, or maintain the current pad life % calculated rate.
- The Brake Pad Monitor system can only be reset back to 100%. It can be reset through the DIC, but this feature is only enabled in the DIC if the BSCM detects one of the brake pad wear sensors has worn through/opened and then replaced. Because many of these vehicles have lower mileage, it is unlikely that a wear sensor has already worn through and therefore, the only way to reset the brake pad life is by using GDS2.
- DTC's C116B SYM59 and/or C116C SYM59 can be set due to the software anomaly in Customer Satisfaction [N192264451](#). This is because the BSCM is calculating the brake pad life % down too quickly without seeing the pad wear sensor circuit wear open. If the BSCM does not see one of the wear sensor circuits open, before it calculates down the brake pad life to a very low % (example 10-20%), it determines there is a mismatch and sets the DTC. Do NOT replace the BSCM for these DTC's.

Warranty Information

For Warranty Information refer to [N192264451](#): Customer Satisfaction Program - Premature Brake Wear Notification.

Version History

Version	4
Modified	06/28/2019 - Created on 08/07/2019 - Updated to add Correction information 11/20/2019 - Additional information added to the Title, condition and correction 11/17/2020 - Updates to Title, Correction and Warranty sections.



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