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## Description

McLaren Automotive have investigated reports of 720S/720S Spider /765LT fuel gauge behaviour and compiled the following article as an explanation.

## Document Information

Location: Electrical – Electrical Systems

Concern: Fuel gauge inaccurate

Condition: During driving

Diagnostic Trouble Codes : N/A

## Measure

Should you receive a customer concern regarding the accuracy of their 720S fuel gauge, the following explanation could be helpful:

The fuel indication is affected by the driving style. With being a high-performance vehicle, the fuel consumption can vary massively depending on driving style and the system is dampened in terms of adapting to give a more steady indication.

Over and above the driving of the car, this is to also compensate during track use so that the tank does not run low risking fuel feed issues which can be critical for the engine.

As a result, the total capacity of the system is 72Litres, but the maximum fuel you will be able to put into the tank is 64 litres, and only when the fuel gauge is in the red zone.

The initial warning will activate when approximately 16Litres is remaining and then the very low warning will activate when 10 Litres are remaining. Even when going to 0 range, approximately 5 litres are still in the fuel tank.

The range left is a calculated figure based on environmental conditions and driving style, the best indication will be the fuel gauge.

As previously mentioned when the fuel gauge is in the red zone, there is still fuel in the tank and the car can be driven for a short distance although is not advisable. This gives the car displaying no fuel on the gauge and dashes showing for range, the ability to get to a fuel station and avoid any breakdown or potential engine concerns as a result of no fuel.

See table below for a visual representation of fuel in tank vs. level displayed:

Displayed Fuel Level *	Actual Litres in Tank	Drivers Display Warning
-----	1	
-----	2	
-----	3	
-----	4	
-----	5	
1	6	
2	7	
3	8	
4	9	
5	10	Very Low
6	11	
7	12	
8	13	
9	14	
10	15	
11	16	Low

\* The figures displayed in this column represents the number of litres of fuel the Drivers Display will effectively display.

## Measure

N/A

## Parts Information

N/A

## Attachments

N/A

## KA Update Information

17/08/2021 KA-Review Q2

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