992 GT3 – DME Fault P310B00 – 'Fuel Low Pressure – Implausible'

Vehicles Affected

Models	Model Year	Model Type	VIN Range	Vehicle-Specific Equipment
911	2021 - 2023	992810 992820	n/a	n/a

Revision History

Revision	Release Date	Changes
0	May 5, 2023	Original document

Condition

Customer complains of a check-engine light resulting from fault **"P310B00- Fuel low pressure – implausible"** in the DME control unit.

Technical Background

The diagnostic responsible for this fault monitors supply deviation within a finite time between the demanded or target low-pressure requested of the low-pressure fuel pump and that of the actual supplied quantity to meet the request, as correlated to pressure. In some instances, manufacturing tolerances for the low-pressure pump result in the actual supplied fuel quantity exceeding the DME's requested quantity, in other words, the pump's operation is 'too effective.' By consulting the Vehicle Analysis Log (VAL) containing the fault it is possible to see if the supplied fuel quantity exceeded the requested quantity in the low-pressure system to cause the fault.

Figure 1

In the example provided below of Figure 2, with imperial units provided, it is apparent the excess low-pressure fuel supply caused the fault. Specifically, the value "B220_Fuel pressure actual value" of 10653.7 lbf/ft2 exceeds "B221_Fuel low pressure setpoint" of 10442.7 lbf/ft2. This deviation occurred despite the DME regulating the demand downwards (-) by 1948.6 lbf/ft^2 or 14.99% to compensate for the excess supply, but the regulation could not compensate enough to prevent the fault.

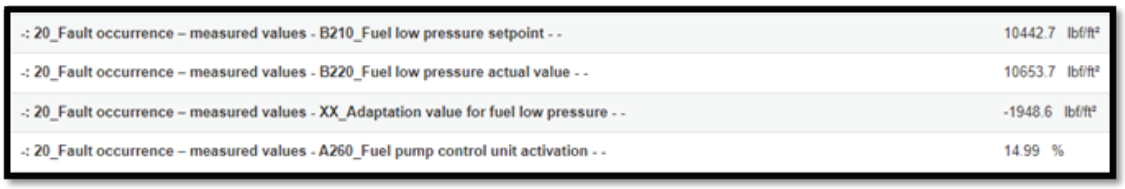

Figure 2 - FC: P310B00 Environmental Data Values

If the fault data is consistent with the condition exemplified in Figure 1, please replace the fuel pump, **NOT** the fuel pressure sensor.

A software update to correct the diagnostic boundary parameters is also planned.

Service Information

1. Follow the instructions from Guided Fault Finding to rule out any other possible fault causes.
2. Referring to Figure 2. Identify measurement values for **XX_Adaption value for low fuel pressure and A260_Fuel pump control unit activation**.
3. Follow ***WM 206619 – Removing and installing fuel pump*** *to replace the fuel pump*.
4. Verify the repair by monitoring the low-pressure fuel delivery under the engine operating parameters of the fault's environmental data.

Warranty

As always, please document the repair completely in PQIS.

For this repair, please code the "cause" as follows:
Cause location: 2066 Fuel pump
Cause symptom: 5062 Pressure too high

Use the following troubleshooting labor operation:
20660175 Fuel pump check
20661950 Fuel pump remove and reinstall

Search Items

992, 911, GT3, Fuel, Pressure, P310B00 – 'Fuel low pressure – implausible'