

Technical Service Bulletin

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| Topic | Bentayga V8 Kovomo - DTC P310B00 with Symptom Code 2638 - Check Engine Lamp - Fuel Pressure Regulation |
| Market area | Bentley: worldwide (2WBE) |
| Brand | Bentley |
| Transaction No. | 2058484/13 |
| Level | EH |
| Status | Released for publishing |
| Release date | Mar 3, 2025 |

Diagnostic trouble codes

| Diagnostic address | Diagnostic trouble code | Fault symptom | Storage state |
|---------------------------|---|---------------|---------------|
| 0001 - Engine electronics | P310B00: Low fuel pressure regulation Fuel pressure outside specification | | static |
| 0001 - Engine electronics | P310B00: Low fuel pressure regulation Fuel pressure outside specification | | Intermittent |

New customer code

| Object of complaint | Complaint type | Position |
|--|--------------------------|----------|
| engine -> engine operation | functionality | |
| engine -> engine operation -> engine output characteristic | functionality -> misfire | |

New workshop code

| Object of complaint | Complaint type | Position |
|--|--|----------|
| engine -> operation, engine control -> engine control module | functionality -> misfire | |
| engine -> operation, engine control -> engine control module | control modules, services -> with fault stored in the DTC memory | |
| engine -> operation, engine control -> engine control module | control modules, services -> measured value too high | |
| engine -> operation, engine control -> engine control module | electrical -> ground connection damaged | |
| engine -> fuel supply -> low pressure fuel pump, tank side | functionality -> irregular | |
| engine -> operation, engine control -> engine control module | control modules, services -> error message | |

Vehicle data

Bentayga Series - V8 Kovomo

Sales types

| Type | MY | Brand | Designation | Engine code | Gearbox code | Final drive code |
|--------|------|-------|-------------|-------------|--------------|------------------|
| 4V14D9 | 2018 | E | | * | * | * |
| 4V14D9 | 2019 | E | | * | * | * |
| 4V14D9 | 2020 | E | | * | * | * |
| 4V14D9 | 2021 | E | | * | * | * |
| 4V14D9 | 2022 | E | | * | * | * |
| 4V14D9 | 2023 | E | | * | * | * |
| 4V14D9 | 2024 | E | | * | * | * |
| 4V14D9 | 2025 | E | | * | * | * |
| 4V15D9 | 2024 | E | | * | * | * |
| 4V15D9 | 2025 | E | | * | * | * |
| ZV14D9 | 2023 | E | | * | * | * |
| ZV14D9 | 2024 | E | | * | * | * |
| ZV14D9 | 2025 | E | | * | * | * |

Documents

| Document name |
|----------------------------|
| master.xml |

Condition

Engine warning lamp is illuminated within the Driver Instrument Panel (DIP) in conjunction with the DTC as detailed below:

- ***"P310B00 with symptom code 2638 - Low Fuel Pressure Regulation"***

There may also be multiple DTC's and symptoms present due to fuel pressure regulation or fuel supply issues in conjunction with the aforementioned symptom/DTC

Technical Background



NOTE: Where possible the retailer must attempt to request as much information as possible regarding when the issue occurred - For example

- Driving at low speed in traffic
- Warning lights within the DIP
- Driveability at the time the issue occurred - During idle or driving?
- If during idle, how long had the car been idling?
- Details when the vehicle was last refuelled and the grade of fuel used
- When the issue occurred, How was the car unlocked and started? Keyless entry or entry by using the remote key fob?



IMPORTANT: All received information must be added to a new or existing Technical DISS query

In the event the symptoms are as described within the Customer statement/workshop findings section of this TPI the operative should refer to the instructions within the Measure section noting the following before proceeding

NOTICE

There are (x2) different fuel pressure actual values depending on the Model Year

- 18 to 22 Model Year
- 23 Model Year

The operative must ensure the correct procedure is followed

Production Solution

All vehicles post SJAHL14V0PC021480 are to specification, however in the event the issue is evident post the suggested VIN the operative should raise a Technical DISS query and await feedback before conducting any further work

Service

WARNING

Before continuing with the onward instructions the operative must refer to and understand the following information within Rep.Gr 20:

- Basic safety instructions for working with the fuel system

- Fuel system - Safety precautions
- Fuel system - Rules for cleanliness
- Always drain fuel tank before performing any work on the fuel system - Drain fuel tank - Refer to Rep.Gr 20

CAUTION

Ensure all safety instructions are strictly followed including the deactivation of the 48 volt system (when applicable) and 12 volt system as per all instructions within Rep.Gr 27

18 to 22 Model Year vehicles only

1) Referring to the example shown in Figure 1 - Check the actual pressure value

- In the event the fuel pressure actual value is above 450kPa the Fuel Delivery Module within the fuel tank (Figure 2) should be replaced



The fuel tank flange seal and securing ring should also be replaced

- Refer to Repair Group 20 Fuel supply, gas operation / 4.0L V8 TSI / Fuel pump, fuel level sensors, and jet pump (RH) - To remove and fit

23 Model Year vehicles only

1) Referring to the example shown in Figure 1 - Check the actual pressure value

- In the event the fuel pressure actual value is above 475kPa (2023MY) the Fuel Delivery Module within the fuel tank (Figure 2) should be replaced



The fuel tank flange seal and securing ring should also be replaced

- Refer to Repair Group 20 Fuel supply, gas operation / 4.0L V8 TSI / Fuel pump, fuel level sensors, and jet pump (RH) - To remove and fit.

All Model Years continued

| | | |
|--|--|------------|
| Extended ambient conditions: | | |
| Engine rpm | 639.5 | 1/min |
| Normed load value | 13.725490449999999 | % |
| Vehicle speed | 0 | km/h |
| Coolant temperature | 82 | °C |
| Intake air temperature | 42 | °C |
| Ambient air pressure | 1000 | mbar |
| Voltage terminal 30 | 12.4 | V |
| Dynamic environmental data | 20 96 28 11 CE 11 94 11 C8 12 80 11 C9 F8 41 11 A4 26 66 12 8AAA 15 9F 66 60 15 A0 66 64 | |
| Unlearning counter according OBD | 40 | |
| Low fuel pressure, specified value | 450.0 | kPa |
| Fuel low pressure, actual value | 501.3 | kPa |
| Fuel pump adaptation | -198.3 | kPa |
| Fuel pump, specified value | 14.99939 | % |
| Fuel temperature | 79.5 | °C |
| Fuel high-pressure, actual value | 13.104 | MPa |
| Fuel pressure rail 2 | 13.106 | MPa |

Figure 1

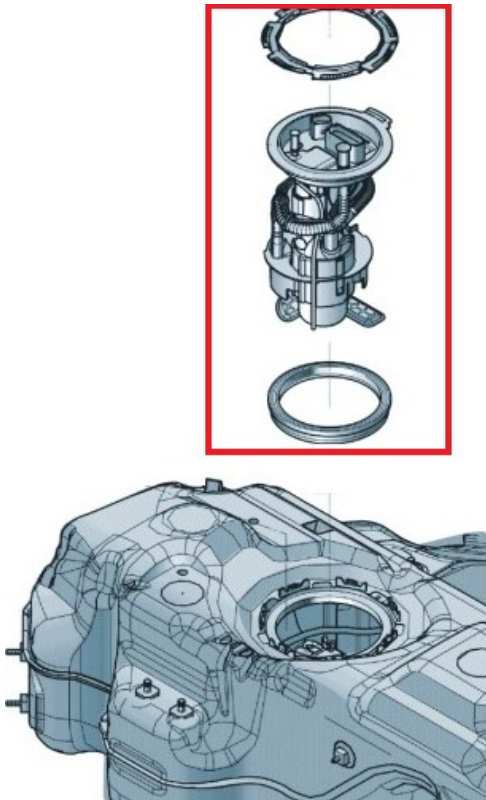


Figure 2

NOTICE

IMPORTANT: Once the fuel delivery module has been replaced, the operative should attach a clear photograph of the manufacture information label as shown in Figure 3

