Technical product information

Topic	Bentayga - Check Engine Lamp - Fuel Pressure Regulation				
Market area	rket area Bentley: worldwide (2WBE)				
Brand	Bentley				
Transaction No.	2058484/1				
Level	EH				
Status	Approval				
Release date					

New customer code

Object of complaint	Complaint type	Position
information, navigation, communication, entertainment -> symbolic fault indicators -> fault indicator for fuel system	functionality -> activates	
information, navigation, communication, entertainment -> symbolic fault indicators -> emission control system fault indicator	functionality -> activates	

New workshop code

Object of complaint	Complaint type	Position
engine -> fuel supply -> low-pressure fuel pump (tank)	functionality -> uneven	
engine -> operation, engine control -> engine control unit	functionality -> misfire	
engine -> operation, engine control -> engine control unit	electrics -> ground connection damaged	
engine -> operation, engine control -> engine control unit	control units, services -> with event log entry	
engine -> operation, engine control -> engine control unit	control units, services -> measured value too high	
engine -> operation, engine control -> engine control unit	control units, services -> error message	

Vehicle data

Bentayga

Sales types

Туре	MY	Brand	Designation	Engine code	Gearbox code	Final drive code
4V14D9	2018	Е	SUV KoVOMo BY636 404/V8 8AG	DCUA	RWH	QUT
4V14D9	2019	Е	SUV KoVOMo BY636 404/V8 8AG	DCUA	RWH	QUT
4V14D9	2020	Е	SUV KoVOMo BY636 404/V8 8AG	DCUA	RWH	QUT

Documents

Document name master.xml

Customer statement / workshop findings

Check Engine Lamp illuminated on Driver Instrument Panel (DIP)

Diagnostic Trouble Code (DTC) "P310B00 Low Fuel Pressure Regulation" stored in the Engine Control Unit (ECU).

DTC "P014800 Fuel Delivery Error" stored in the ECU.

"Misfire" DTC stored in the ECU.

Technical background

There may be multiple DTC's and symptoms present due to fuel pressure regulation or fuel supply issues, use the information contained within the "Measure" section to determine the correct analysis and repair procedure.

Transaction No.: 2058484/1

Production change

Not applicable.

Measure

Check Engine Lamp Illumination And DTC "P0310B00"

For vehicles that have only the symptoms "Check Engine Lamp Illumination", DTC "P031B00" and an "Adaption of Fuel Pump (FP)" figure of minus 100 to minus 200 kPa – figure 1 - the Fuel Delivery Module within the fuel tank should be replaced – figure 2 – 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.

To check the "Adaption of Fuel Pump (FP)" figure within the fault memory, refer to ECU "01 – Engine Control Module 1" - From "Extended ambient conditions" note the value of the "Adaption of Fuel Pump (FP)" – figure 1.

Initial system test with fault memory entries Address: 0001 System name: 01 - Engine Control Module 1 Protocol variant: UDS/ISOTP (Ereignisse: 1) + Identification: - Event memory entries (Data source: Vehicle): Entry in fault memory P310B00: Low Fuel Pressure regulation Fuel pressure outside Number specification Fault type 2: passive/sporadic 2638 10101000 - Standard ambient conditions: 05/11/19 Date: 09:52:18 Mileage (DTC): Priority: Frequency counter - Extended ambient conditions 602.0 1/min Normed load value 7 05882366 Vehicle speed 0 73 Coolant temperature °C Intake air temperature Ambient air pressure Voltage terminal 30 15 1010 14.92 20 96 28 11 CF 11 94 11 C8 11 AF 11 C9 F9 E4 11 A4 26 66 12 8A A2 15 9F 44 D4 Dynamic environmental data 15 A0 44 A4 Unlearning counter according OBD 450.0 Adaptation of Fuel Pump (FP) -156.4 kPa Fuel temperature 73.5 Fuel high pressure, actual value Fuel pressure rail 2 8 81 MPa 8.786

Figure 1

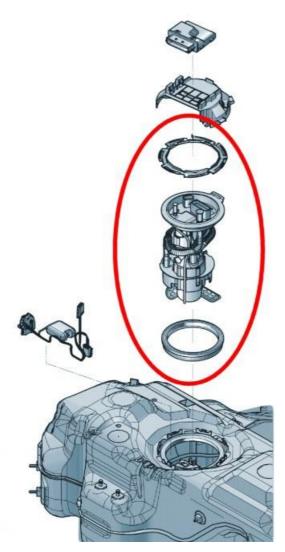


Figure 2

Check Engine Lamp Illumination, Engine Running Concerns, Fuel System and Misfire DTC's

With symptoms of "Check Engine Lamp Illumination", "Poor Engine Running" accompanied with one or more of the following DTC's:

- "P310B00 Low Fuel Pressure Regulation"
- "P014800 Fuel Deliver Error"
- · "Misfire" DTC's

Check "Low fuel pressure, specified value" and "Fuel low pressure, actual value" within the fault memory, refer to ECU "01 – Engine Control Module 1" - From "Extended ambient conditions" note the values of the "Low fuel pressure, specified value" and "Fuel low pressure, actual value"—figure 3.

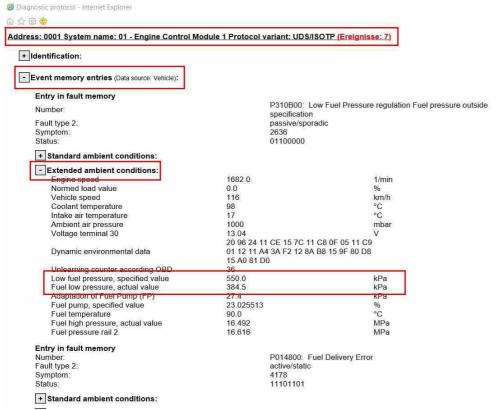


Figure 3

Next, raise a DISS query.

- Note the "Low fuel pressure, specified value" and "Fuel low pressure, actual value" on the DISS query.
- Attach a diagnostic log and report if the fault is reproducible.

The following checks may also be requested via the DISS query:

- Low pressure fuel system Fuel pressure check using ODIS measured values when the vehicle is starting or idling this should normally be 400 – 800 kPa.
- If possible, check the fuel system pressure at the fuel tank outlet with a pressure gauge, this should be the same as the figure measured with ODIS or approximately 100 kPa lower if the gauge is relative to atmospheric pressure.
- After switching the engine off the pressure within the fuel system should remain at 400 kPa or above for at least ten minutes. If the fuel
 system pressure is not as expected it may be necessary to check the fuel tank internally check for disconnected or punctured fuel lines.
- Check the fuel level within the fuel tank, check the fuel pump electronic control unit electrical earth point condition and check for debris
 within the fuel tank.
- If removed, the fuel pump and fuel pump control module may be required for further analysis.

Warranty accounting instructions

Warranty type - 790 or 710

Damage Service Number - 2066

Damage Code - 0100

Labour Operation Codes -

01290030-Self Diagnosis-30TUs

20661950-Electric Fuel Pump-Remove + Reinstall-50TUs

70491901-Rear Floor Covering-Remove + Reinstall - 300TUs

Parts information

For the latest part information always refer to the Electronic Parts Catalogue – ETKA.