

Technical product information

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.	2058484/6
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 - 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		*	*	*

Documents

Document name
master.xml

Customer statement / workshop findings

Check Engine Lamp 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 be multiple DTC's and symptoms present due to fuel pressure regulation or fuel supply issues

Technical background

In the event the customer complaint relates to the following:

- Customer experienced poor start up or the engine stalled shortly after start up - proceed with the remaining instructions

NOTE: The operative must gather information regarding the Customer experience regarding when the issue occurred for example: Pre-conditions, warning lights and driveability at time issue occurred, details when the vehicle was last refuelled and the grade of fuel used

The operative must now use the information contained within the “Measure” section to determine the correct analysis and repair procedure.

Production change

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IMPORTANT:

For 18 to 20 M/Y vehicles which are specified for use in the countries listed below, the instructions within the Measure section **MUST BE** followed.

Due to a change within Manufacturing, all vehicles from 21 M/Y which are specified for use in the countries listed below are not affected by the symptoms described, therefore the instructions within the Measure section **DO NOT** apply

Andorra

Armenia

Australia

Austria

Azerbaijan

Bahrain

Belarus

Brazil

Brunei

Bulgaria

Cambodia

Chile

China

Cyprus

Czech Republic

Denmark

Dominican Republic

Egypt

Eire

Estonia

Finland

France

Georgia

Greece

Guatemala

Hong Kong

Hungary

India

Israel

Italy
Japan
Kazakhstan
Kuwait
Latvia
Lebanon
Lithuania
Luxembourg
Macau
Malaysia
Malta
Monaco
Mongolia
Morocco
Netherlands
New Zealand
Oman
Panama
Peru
Philippines
Poland
Portugal
Qatar
Romania
Russia
Saudi Arabia
Singapore
Slovakia
Spain
Sweden
Switzerland
Taiwan
Thailand
Turkey
UK
Ukraine
United Arab Emirates
Vietnam

IMPORTANT:

For vehicles which are not specified for use in the afore mentioned country list, the operative should follow the instructions within the Measure section of this TPI

Measure

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IMPORTANT: Before continuing please ensure the country applicability and M/Y information within the Technical background section is understood before commencing with the onward instructions

Check Engine Lamp Illumination with DTC P310B00 and symptom code 2638

1) For vehicles that only have the symptoms:

- Check Engine Lamp Illumination with DTC "P310B00 and symptom code 2638 with 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 Engine control Unit “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

Number:

Fault type 2:

Symptom:

Status:

P310B00: Low Fuel Pressure regulation Fuel pressure outside specification
passive/sporadic
2638
10101000

- Standard ambient conditions:

Date: 05/11/19
Time: 09:52:18
Mileage (DTC): 92
Priority: 2
Frequency counter: 8
Unlearning counter / driving cycle: 255

- Extended ambient conditions:

Engine speed	602.0	1/min
Normed load value	7.05882366	%
Vehicle speed	0	km/h
Coolant temperature	73	°C
Intake air temperature	15	°C
Ambient air pressure	1010	mbar
Voltage terminal 30	14.92	V
Dynamic environmental data	20 96 28 11 CE 11 94 11 C8 11 AE 11 C9 F9 E4 11 A4 26 66 12 8A A2 15 9F 44 D4 15 A0 44 A4	
Unlearning counter according OBD	40	
Low fuel pressure, specified value	450.0	kPa
Fuel low pressure, actual value	450.6	kPa
Adaption of Fuel Pump (FP)	-156.4	kPa
Fuel pump, specified value	14.33939	%
Fuel temperature	73.5	°C
Fuel high pressure, actual value	8.81	MPa
Fuel pressure rail 2	8.786	MPa

Figure 1

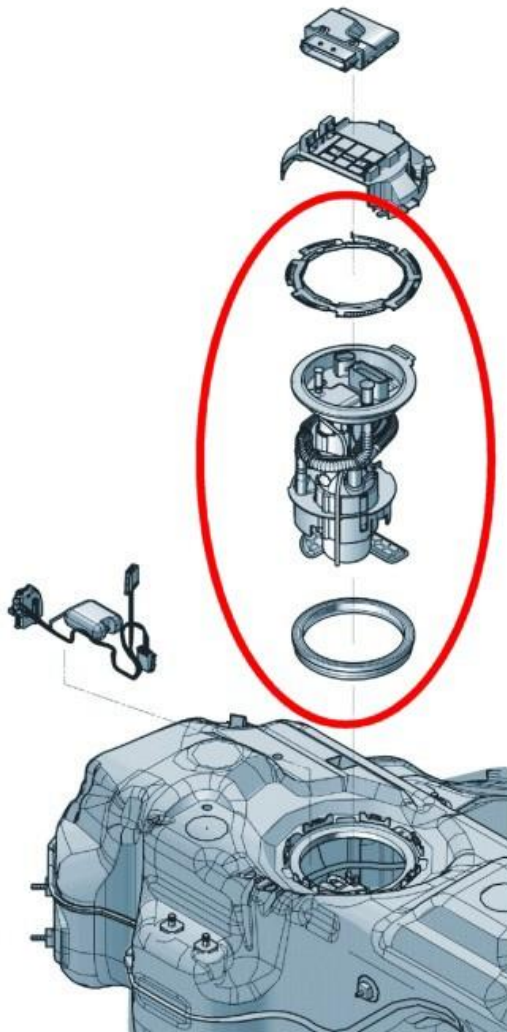


Figure 2

Warranty accounting instructions

Time to replace the Fuel delivery module

Warranty type – 110 or 910

Damage Service Number 20 66

Damage Code 00 10

Labour

Labour Operation Code 20 66 19 50

Time 50 TU

Time to remove and refit the rear seats (4 seat)

Labour Operation Code 68 16 19 01

Time 190 TU

Time to remove and refit the rear seats (5 seat)

Labour Operation Code 72 48 20 05

Time 100 TU

Time to remove and refit the seat sill panel

Labour Operation Code 68 05 19 00

Time 20 TU

Time to remove and refit the boot side trim panel

Labour Operation Code 70 03 19 00

Time 40 TU

Parts information

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