

Technical product information

Topic	New Continental GT/GTC V8 Kovomo - Fuel Pressure Regulation
Market area	Russische Föderation (5RU),Australia E04 Bentley rest Asia and Australia (6E04),China 796 VW Import Comp. Ltd (Vico), Beijing (6796),Germany E02 Bentley rest Europe (6E02),Japan E03 Bentley Japan (6E03),Korea, (South) E08 Bentley South Korea (6E08),United Arab Emirates E06 Bentley Middle East and Africa (6E06),United Kingdom E01 Bentley UK (6E01),United States E05 Bentley USA and rest America (6E05)
Brand	Bentley
Transaction No.	2061171/2
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

New Continental GT/GTC - V8 Kovomo

Sales types

Type	MY	Brand	Designation	Engine code	Gearbox code	Final drive code
3S32CB	2019	E		*	*	*
3S32CB	2020	E		*	*	*
3S32CB	2021	E		*	*	*
3S42CB	2019	E		*	*	*
3S42CB	2020	E		*	*	*
3S42CB	2021	E		*	*	*

Documents

Document name
master.xml
measurement.pdf

Customer statement / workshop findings

Check Engine Lamp illuminated within the Driver Instrument Panel (DIP) with one or multiple DTC's as detailed below:

- "P310B00 Low Fuel Pressure Regulation"
- "P014800 Fuel Deliver Error"
- "P019100 Fuel Rail pressure Sensor 'A' Circuit Range/Performance"
- "Misfire" DTC's

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 - 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

Measure

1) If not already done, raise a DISS query.

2) 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 1.

Diagnostic protocol - Internet Explorer

Address: 0001 System name: 01 - Engine Control Module 1 Protocol variant: UDS/ISOTP (Ereignisse: 7)

+ Identification:

- Event memory entries (Data source: Vehicle):

Entry in fault memory

Number:	P310B00: Low Fuel Pressure regulation Fuel pressure outside specification	
Fault type 2:	passive/sporadic	
Symptom:	2636	
Status:	01100000	

+ Standard ambient conditions:

- Extended ambient conditions:

Engine speed	1682.0	1/min
Normed load value	0.0	%
Vehicle speed	116	km/h
Coolant temperature	98	°C
Intake air temperature	17	°C
Ambient air pressure	1000	mbar
Voltage terminal 30	13.04	V
Dynamic environmental data	20 96 24 11 CE 15 7C 11 C8 0F 05 11 C9 01 12 11 A4 3A F2 12 8A B8 15 9F 80 D8 15 A0 81 D0	
Unlearning counter according OBD	36	
Low fuel pressure, specified value	550.0	kPa
Fuel low pressure, actual value	384.5	kPa
Adaptation of Fuel Pump (FP)	27.4	kPa
Fuel pump, specified value	23.025513	%
Fuel temperature	90.0	°C
Fuel high pressure, actual value	16.492	MPa
Fuel pressure rail 2	16.616	MPa

Entry in fault memory

Number:	P014800: Fuel Delivery Error	
Fault type 2:	active/static	
Symptom:	4178	
Status:	11101101	

+ Standard ambient conditions:

Figure 1

- If not already done, raise a DISS query, add the following results/information.

Note the "Low fuel pressure, specified value" and "Fuel low pressure, actual value" on the DISS query.

- Referencing the *Measurement* document attached, for each of the listed Electronic Control Units record the values listed, in addition, record all available fuel pressure measurements, add the completed list to the DISS query.
- Record when the vehicle was last refuelled and current fuel tank level.

- Using ODIS *Measured values* check low fuel pressure when the vehicle is starting or idling – this should normally be 400–800 kPa.
- 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.
- Check the fuel pump ECU electrical earth point condition, check for debris, cleanliness and tightness of earth point nut. Record results on the DISS query, attach clear photograph(s).
- Check all fuel pump ECU connector pins for signs of contamination or damage. Check for any other concern that may lead to poor retention, high resistance or poor connection. Ensure issues noted during this inspection are corrected, reconnect all removed connectors.
- Clear any fault codes that may be present and conduct a short road test, make a note of any fault codes that are logged during the road test
- Should any issues be evident from any previous technical checks/inspection or for example:

DTC's logged during the road test

The issue can be reproduced

Repeat visit for the same issue

Fuel level shown in the DIP does match the actual amount of fuel which is in the tank (as applicable MWB's)

- The Operative MUST add any relevant information to the DISS query

Or

- Should no issues be evident, the car can be returned to the customer – Refer to the Customer information section of this TPI

Warranty accounting instructions

Warranty type – 110 or 910

Damage Service Number – 2066

Damage Code – 0100

Labour Operation Codes -

01500000 - Self Diagnosis – Time taken from diagnostic log (Maximum 30 TU)

20661900 - Electric Fuel Pump - Remove + Reinstall - 150 TUs

Parts information

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

Customer information

This is a known Fuel Pump control module problem which can, in exceptionally rare circumstances lead to momentary pause of fuel supply on vehicle start up resulting in the engine not running smoothly or stalling. The exact timing between vehicle unlocking and switching the ignition on can lead to the symptoms exhibited. Based on all evidence, and the Retailer verifying the fuel system is to specification and ensuring the electrical systems integrity is secure and functional. There is no mechanical detriment to the vehicle

The risk of a repeat failure is exceptionally low, a long term Fuel pump control module hardware change is currently under investigation.

In the highly unlikely scenario of a repeat fault, leave the car locked for 20 minutes, the vehicle should now operate to specification