

Technical product information

Topic	New Continental GT & GTC - Check Engine Lamp - Fuel Pressure Regulation
Market area	Bentley: worldwide (2WBE)
Brand	Bentley
Transaction No.	2058862/2
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	
engine -> performance control	functionality	
information, navigation, communication, entertainment -> symbolic fault indicators -> emission control system fault indicator	functionality -> activates	
whole vehicle -> integrity of information and control systems	control units, services	
engine -> engine operation	functionality	
engine -> emission control	control units, services	
engine -> fuel supply	functionality	
engine -> operation, engine control	functionality	

New workshop code

Object of complaint	Complaint type	Position
engine -> fuel supply -> low-pressure fuel pump (tank)	functionality -> uneven	
engine -> fuel supply -> fuel pump control unit (low pressure)	control units, services -> with event log entry	

Vehicle data

New Continental GT

Sales types

Type	MY	Brand	Designation	Engine code	Gearbox code	Final drive code
3S32CB	2020	E	Cont GT(MSB) BY634 404/V8 8AG	CVDA	TPT	RVC
3S32CB	2020	E	Cont GT(MSB) BY634 404/V8 8AG	CVDA	UPC	TFM
3S32CB	2020	E	Cont GT(MSB) BY634 404/V8 8AG	CVDA	TUP	TFM
3S32CB	2020	E	Cont GT(MSB) BY634 404/V8 8AG	CVDA	TUP	RVC

New Continental GTC

Sales types

Type	MY	Brand	Designation	Engine code	Gearbox code	Final drive code
3S42CB	2020	E	Cont GTC(MSB)BY635 404/V8 8AG	CVDA	TPT	RVC
3S42CB	2020	E	Cont GTC(MSB)BY635 404/V8 8AG	CVDA	UPC	TFM
3S42CB	2020	E	Cont GTC(MSB)BY635 404/V8 8AG	CVDA	TUP	TFM
3S42CB	2020	E	Cont GTC(MSB)BY635 404/V8 8AG	CVDA	TUP	RVC

Documents

Document name
master.xml
measurement.pdf

Customer statement / workshop findings

Check Engine Lamp illuminated on Driver Instrument Panel (DIP)

One or more of the following Diagnostic Trouble Codes (DTC's) stored within the Engine Control Unit.

- P014800 - Fuel Delivery Error
- P310B00 - Fuel Rail Pressure regulation Fuel Pressure Outside specification
- P019100 - Fuel Rail Pressure Sensor "A" Circuit Range / Performance
- P018B00 - Fuel Pressure Sensor "B" Circuit Range / Performance
- Various "Misfire" DTC's

Technical background

With symptoms of "Check Engine Lamp Illumination", "Poor Engine Running - Misfires" accompanied with one or more of the listed DTC's, proceed to follow the information contained within the "Measure" section.

Production change

Measure

If not already done, raise a DISS query.

- Check the recorded "Low fuel pressure, specified value" and "Fuel low pressure, actual value" within the *Event memory*, refer to Engine Control Unit "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.

Note: P014800 - Fuel Delivery Error DTC does not contain the "Low fuel pressure, specified value" and "Fuel low pressure, actual value" freeze frame data.

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

- Record the "Low fuel pressure, specified value" and "Fuel low pressure, actual value" from the *Event memory* on the DISS query.

Add the following results / information to the DISS query.

- Attach a current diagnostic log to 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.
- Gather as much information on the Customer experience when the issue arose, such as, *Pre-conditions, warning lights and driveability at time issue occurred, when the vehicle was last refuelled.*
- Record 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 figure 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.
- Carry out visual inspection of Fuel Pump ECU earth point. Check for debris, cleanliness and tightness of earth nut. Record findings and 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.
- The DISS query should be second levelled, a review of all information should be carried out before next steps are advised.
- DISS guidance may advise further analysis of the fuel line check valve status/condition and replacement for analysis.

Parts information

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