

Technical product information

Topic	New Continental GT & GTC - Check Engine Lamp - Fuel Pressure Regulation
Market area	Bentley: worldwide (2WBE)
Brand	Bentley
Transaction No.	2058862/1
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	
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
3S3*	2018	E		*	*	*
3S3*	2019	E		*	*	*
3S3*	2020	E		*	*	*

New Continental GTC

Sales types

Type	MY	Brand	Designation	Engine code	Gearbox code	Final drive code
3S4*	2019	E		*	*	*
3S4*	2020	E		*	*	*

Documents

Document name
master.xml

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 (ECU).

- 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

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.

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

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.

Parts information

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