# Technical product information

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|---|---|
| **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

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## 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.

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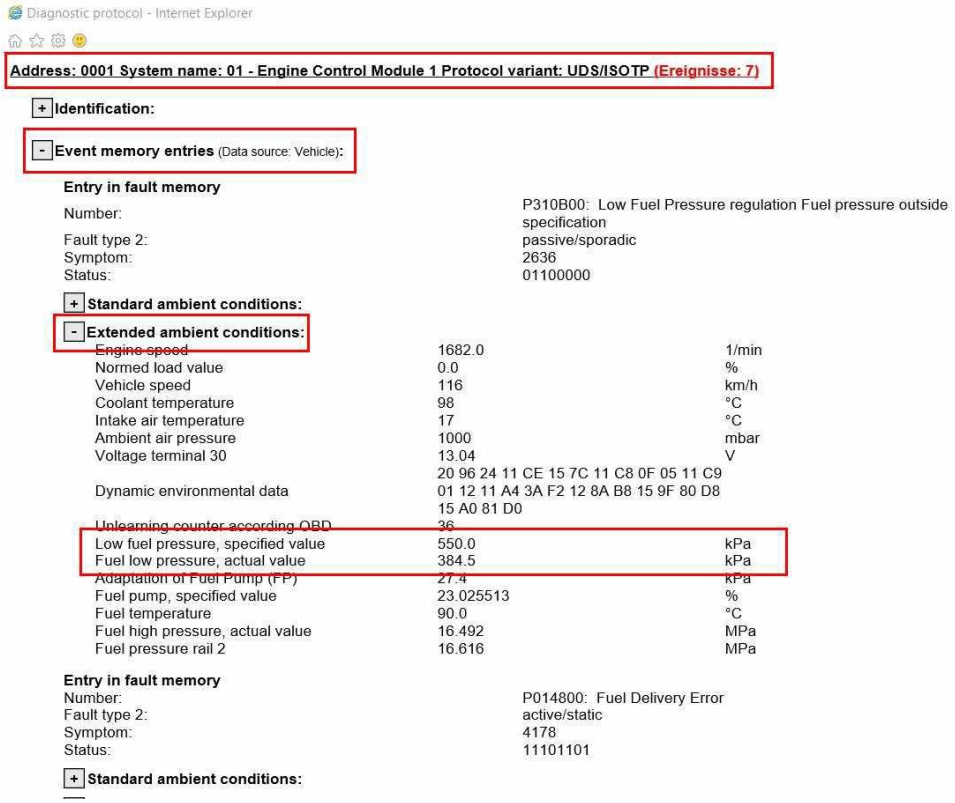
Note: P014800 - Fuel Delivery Error DTC does not contain the "Low fuel pressure, specified value" and "Fuel low pressure, actual value" freeze frame data.



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.