

Technical Service Bulletin

Topic	W12 Fuel Supply Module Low fuel pressure warning Bentayga 17-23MY
Market area	Bentley: worldwide (2WBE),China 796 VW Import Comp. Ltd (Vico), Beijing (6796)
Brand	Bentley
Transaction No.	2077385/1
Level	EH
Status	Released for publishing
Release date	May 12, 2025

New customer code

Object of complaint	Complaint type	Position
engine -> engine operation	functionality	
engine -> operation, engine control	functionality	
engine -> fuel supply	functionality	

Vehicle data

Bentayga W12

Sales types

Type	MY	Brand	Designation	Engine code	Gearbox code	Final drive code
4V14A9	2017	E		*	*	*
4V14A9	2018	E		*	*	*
4V14A9	2019	E		*	*	*
4V14A9	2020	E		*	*	*
4V14A9	2021	E		*	*	*
4V14G9	2020	E		*	*	*
4V14G9	2021	E		*	*	*
4V14G9	2022	E		*	*	*
4V14G9	2023	E		*	*	*

Documents

Document name
master.xml

Condition

Engine difficult to start

Or

Engine runs rough

These issues can trigger DTC P00310B, P008A00 relating to Low Fuel Pressure regulation, Fuel pressure outside specification

The following symbol can also be displayed on the Driver Instrument Panel (DIP) in conjunction with an error message "start/stop unavailable"



Technical Background



Prior to conducting the instructions within this TPI, the retailer must check and confirm there are no other issues evident with the vehicle for example:

- Misfire related DTC's
- Low pressure fuel DTC's other than DTC P00310B & DTC P008A00
- Damaged fuel hoses and pipes – Examine all hoses and pipes external of the fuel tank
- Fuel leaks
- Correct grade and correct type of fuel within the fuel tank
- Vibration noises from the fuel tank

IMPORTANT: Should any issues be found these should be rectified and the vehicle tested to confirm the actual issue/symptoms described within the Customer statement section of this TPI are evident prior to carrying out the onward instructions

Production Solution

Not applicable

Service



Prior to starting any work, the operative must adhere to all instructions within Elsa pro Rep.Gr 20 - Fuel system - Safety precautions - Fuel system - Rules for cleanliness and Special Instructions for Fuel System Quick Connectors



The use of safety glasses is recommended for the duration of this procedure

1) Check and confirm the Fuel tank pump assembly Pulse Width Modulation (PWM) value as follows:

- Ensure the engine is idling at operating temperature - Ensure a suitable battery charger is also connected as per Rep.Gr 27
- Select Engine control module 1
- Select Guided functions – Read measured values
- Referring to Figure 1 - Navigate to Measured value IDE01893
- Select Starting update and monitor the Value – The value should be below 25%

NOTE: If the fuel pumps run faster at idle (above 25%) this is a sign of either a significant leakage or that the wrong fuel supply modules are fitted.

Carry out an inspection of the vehicles repair history. If the fuel supply module has been previously replaced, you must ensure that the correct specification was fitted

- Confirm if the vehicle was built with fuel supply module part numbers **36A.919.087.K** or **36A.919.087.L**.

Check if RC84 has been completed on the vehicle:

- Has the vehicle been previously repaired with part numbers **36A.919.087.K** or **36A.919.087.L** or **36A.298.311.A** or **36A.298.311.B**.

- Confirm and record the vehicles mileage and date when RC84 was carried out. See below.

Date of RC84	Vehicle Mileage

Once all of the above have been confirmed, continue to step 2 – Fuel low pressure check

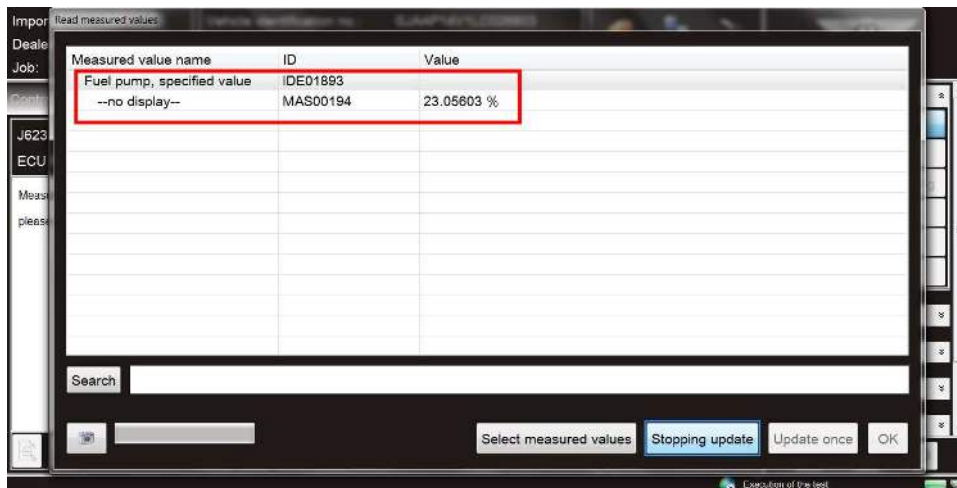


Figure 1

2) Fuel low pressure check - Referring to Figure 2 (Point A) navigate to Measured value IDE00186 Fuel low pressure, actual value

- Select OK (Point B)

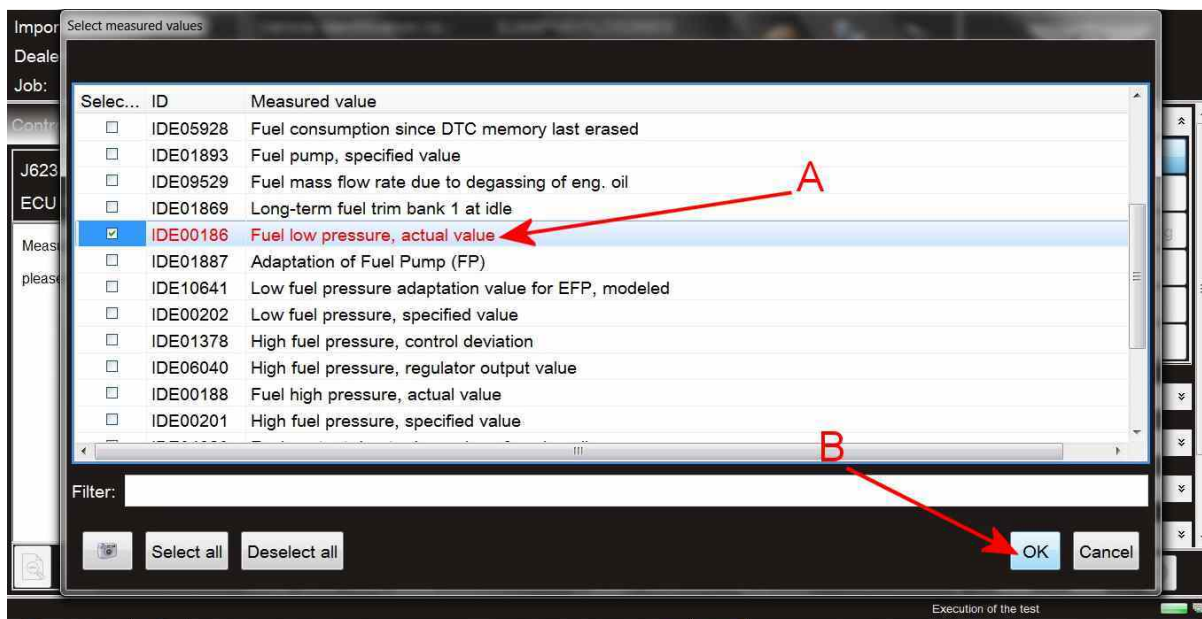


Figure 2

- Referring to Figure 3 – Select Starting update
- Switch off the engine and leave the ignition on
- Monitor the pressure decay of the low pressure fuel system for 10 minutes

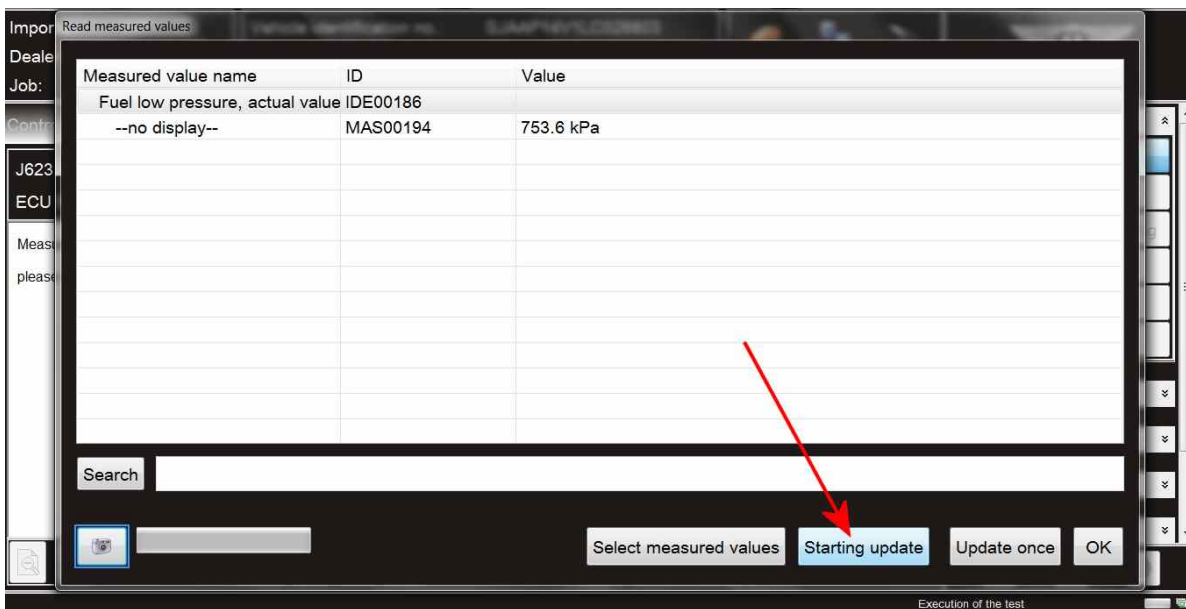


Figure 3

3) Should the pressure drop below 300 kPa after 10 minutes - Referring to Figure 4 - Gain access to the fuel pump assembly and fuel filter within the right hand side of the fuel tank – refer to ElsaPro, repair group 20

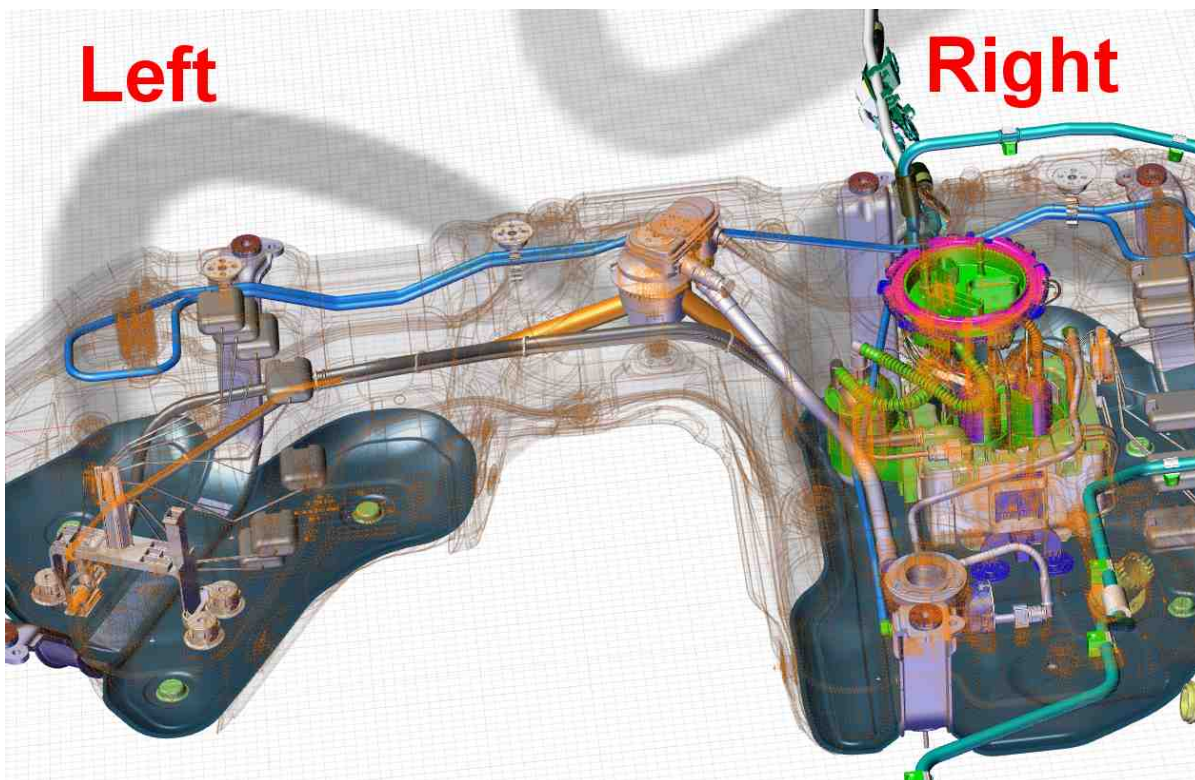


Figure 4

- Carry out an inspection of fuel tank,
- Check for punctured/split hoses
- Check for broken and loose connections



Figure 5

4) Confirm whether the fuel pressure regulator has become displaced as per figure 5

NOTE: Care should be taken when checking this part as damage can be caused when manipulating the fuel pump assembly

Next steps:

Once all the above checks are complete and confirmed. Submit a DISS ticket with all recorded information/photographs above for second-level escalation to the senior engineer

Warranty

Warranty type - 110 or 910

Damage Service Number 20 66

Damage Code 01 00

5 seat

Time to replace the Fuel delivery module

Labour Operation Code 20 66 19 50 - 50 TU

Remove and refit the rear seats

Labour Operation Code 72 48 20 05 Time - 100 TU

Remove and refit the rear seat subframe

Labour Operation Code 72 55 19 50 Time - 30 TU

Time to remove and refit the seat sill panel (left and right)

Labour Operation Code 68 05 20 00 - 40 TU

Time to remove and refit the boot side trim panel (left and right)

Labour Operation Code 70 03 20 00 - 70 TU

Self Diagnosis

Labour Operation Code 01 50 00 00

Time taken from diagnostic log (Maximum 10TU)

Remove and refit the luggage compartment trim

70 31 19 00 - 10TU

Remove and refit the DC/DC converter (48v system vehicles only)

27051950 - 10 TU

4 seat

Time to replace the Fuel delivery module

Labour Operation Code 20 66 19 50 - 50 TU

Remove and refit the rear seats

Labour Operation Code 68 16 19 01 - 190 TU

Time to remove and refit the seat sill panel (left and right)

Labour Operation Code 68 05 20 00 - 40 TU

Time to remove and refit the boot side trim panel (left and right)

Labour Operation Code 70 03 20 00 - 70 TU

Self Diagnosis

Labour Operation Code 01 50 00 00

Time taken from diagnostic log (Maximum 10TU)

Time to remove and refit the luggage compartment trim

70 31 19 00 - 10TU

Time to remove and refit the DC/DC converter (48v system vehicles only)

27 05 19 50 - 10 TU

Time to replace the fuel tank (if required)

IMPORTANT: Only the components on the right hand side of the fuel tank are interchangeable, if there is a fault with any components on the left hand side or with any components which are not listed within the ETKA parts catalogue a new fuel tank is required

4 Seat

Labour Operation Code 20 10 19 00 - 590 TU

5 Seat

Labour Operation Code 20 10 19 05 - 540 TU

Required Parts and Tools

Refer to ETKA parts catalogue