

Technical product information

Topic	Fuel gauge operational issues - DTC's B103E1B and/or B10581B evident within address 0046
Market area	Bentley: worldwide (2WBE),China 796 VW Import Comp. Ltd (Vico), Beijing (6796)
Brand	Bentley
Transaction No.	2075354/1
Level	EH
Status	Approval
Release date	

Event memory entries

Diagnostic address	Event memory entry	Fault type	Fault status
0046 - Comfort System Central Control Module	B10581B: Fuel level sensor 2 Resistance too high		static
0046 - Comfort System Central Control Module	B103E1B: Fuel level sensor 1 Resistance too high		static

New customer code

Object of complaint	Complaint type	Position
information, navigation, communication, entertainment -> instrument cluster, displays, display panels -> fuel level indicator	component / consumables -> damaged	

New workshop code

Object of complaint	Complaint type	Position
engine -> fuel supply -> fuel level sender	functionality -> without function / defect	

Vehicle data

Continental GT/C and Flying Spur

Sales types

Type	MY	Brand	Designation	Engine code	Gearbox code	Final drive code
3S4*	2019	E		*	*	*
3S4*	2020	E		*	*	*
3S4*	2021	E		*	*	*
3S4*	2022	E		*	*	*
3S4*	2023	E		*	*	*
3S4*	2024	E		*	*	*
ZG2*	2020	E		*	*	*
ZG2*	2021	E		*	*	*
ZG2*	2022	E		*	*	*
ZG2*	2023	E		*	*	*
ZG2*	2024	E		*	*	*

Documents

Document name
master.xml

Customer statement / workshop findings

Customer statement:

Fuel gauge does not change during a long journey or after refuelling the vehicle and does not show *full* after filling the fuel tank
And/or

Workshop findings:

The following DTC's could be evident within diagnostic address 0046 - Comfort System Central Control Module

- B103E1B: Fuel level sensor 1 Resistance too high
- B10581B: Fuel level sensor 2 Resistance too high

Technical background

Refer to the Measure section of this TPI

Production change

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Measure

1) Access the *symptom-based Guided Fault Finding* in ODIS as follows:

- Ensure a suitable battery charger is correctly connected to the vehicle electrical system for the duration of this procedure
- Connect the Bentley approved diagnostic tool to the vehicle On Board Diagnostic (OBD) socket.
- Switch on the vehicle ignition
- From the diagnostic tool main desktop select **Off board Diagnostic Information System (ODIS)**.
- Carry out a full GFF of all control units

2) Once GFF is complete - Select Test plan > Systems with diagnostic capability (Figure 1)

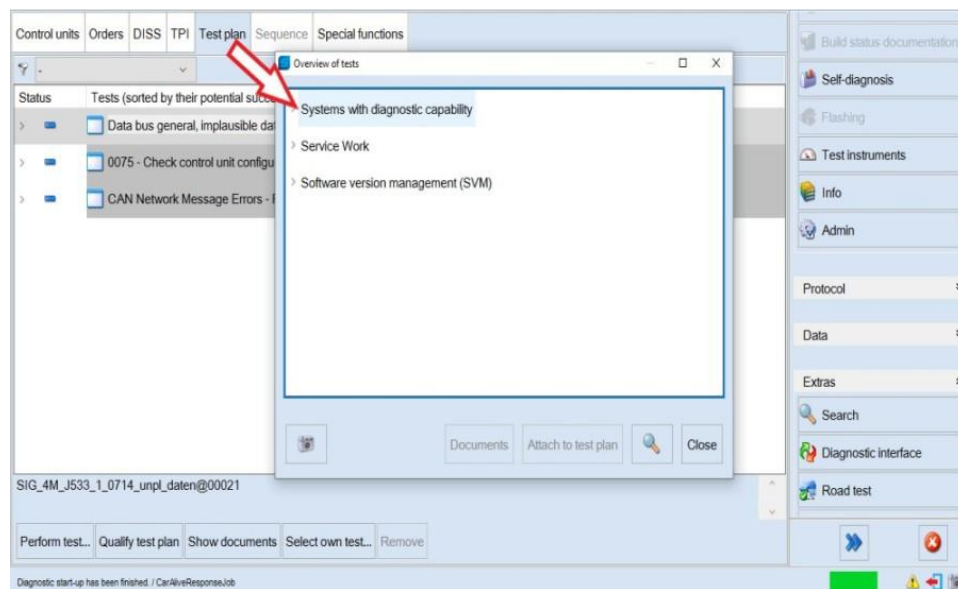


Figure 1

- Select > 0046 - Convenience system central module (Figure 2)

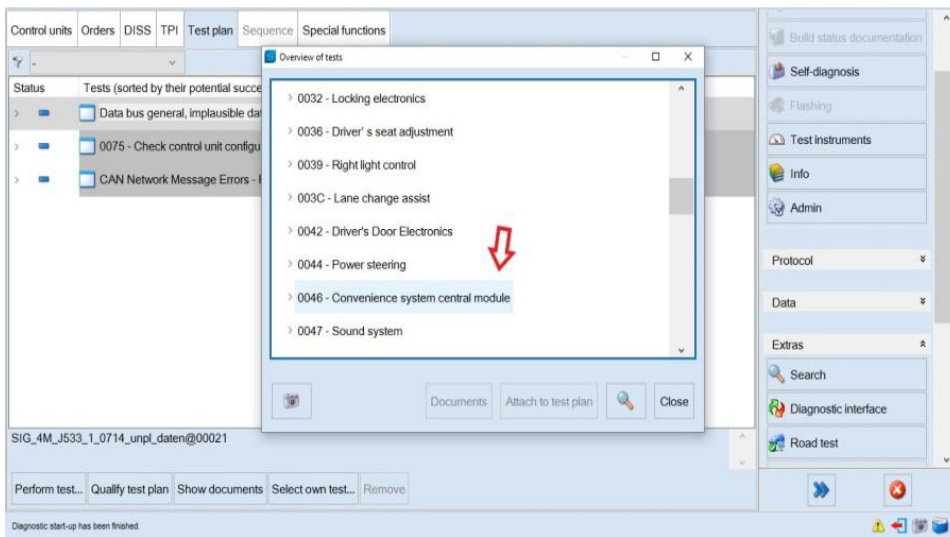


Figure 2

- Select > 0046 - Functions (Figure 3)

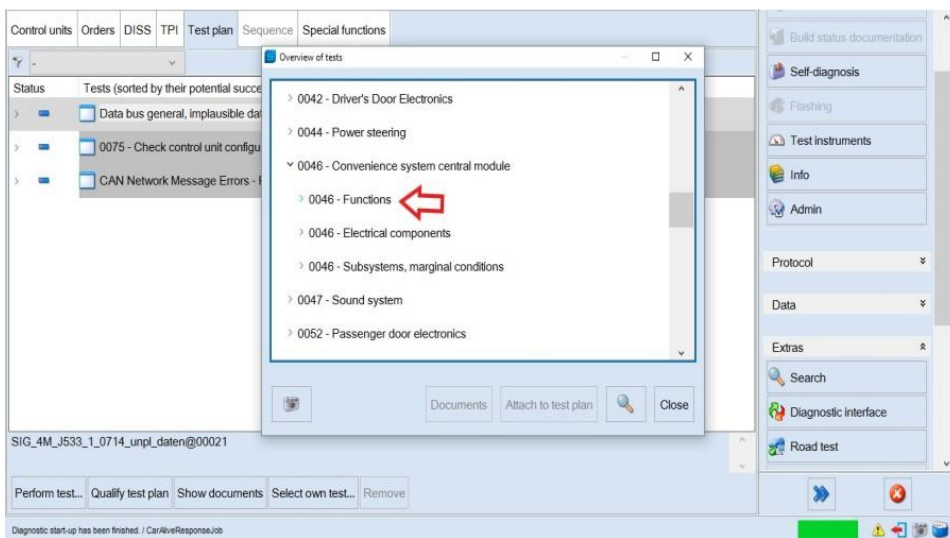


Figure 3

- Select > 0046 - Electrical components (Figure 4)

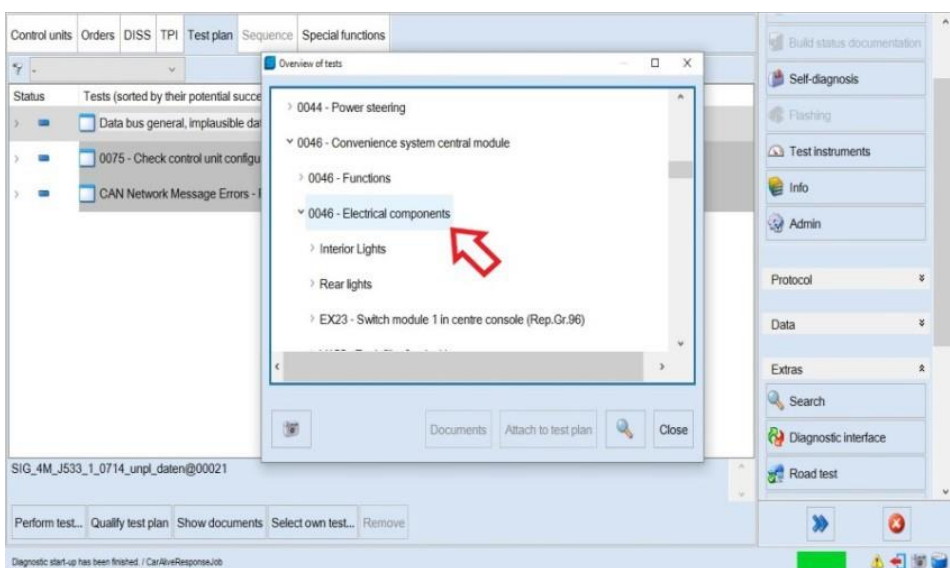


Figure 4

- Select GX1 - Fuel gauge sender (Figure 5)

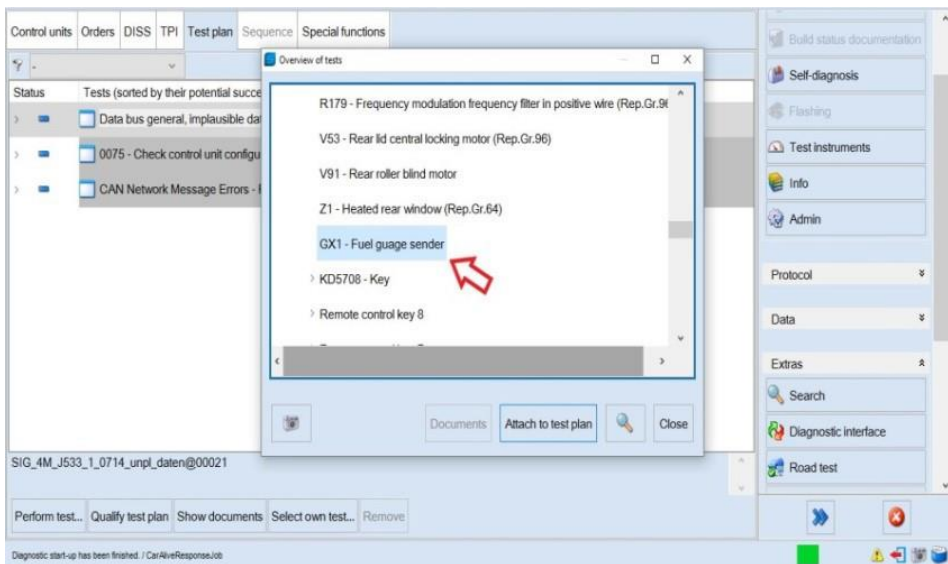


Figure 5

- Select - Attach to test plan (Figure 6)

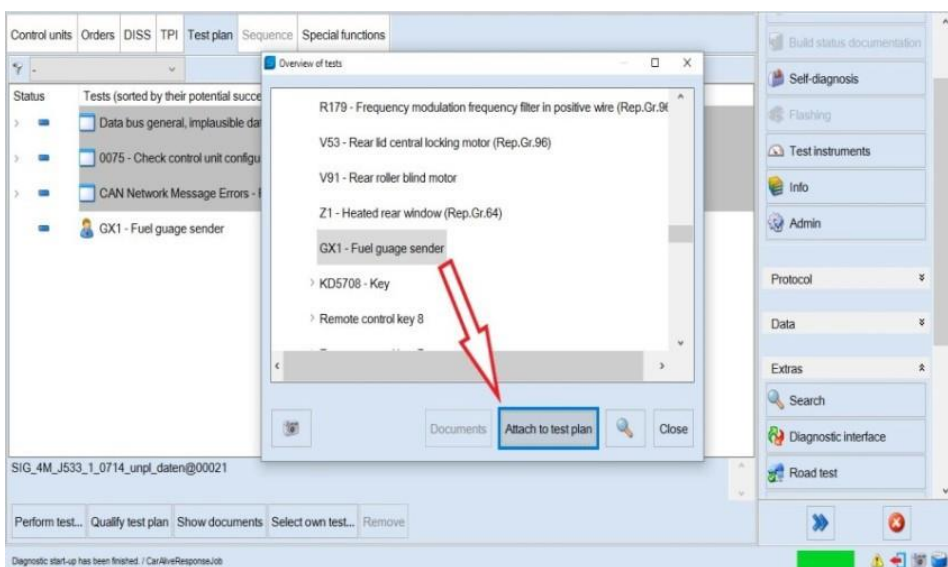


Figure 6

3) Follow the Test plan to completion



Should no issues be found after following the Test plan, the operative should conduct the visual checks within Step 4

4) Referring to the applicable Rep.Gr - Gain access to the Fuel pump control module(s) and fuel tank electrical connections

- Referring to Figure 7 and 8 (Point A) - Conduct a check of the wiring harness to confirm if any damage is evident

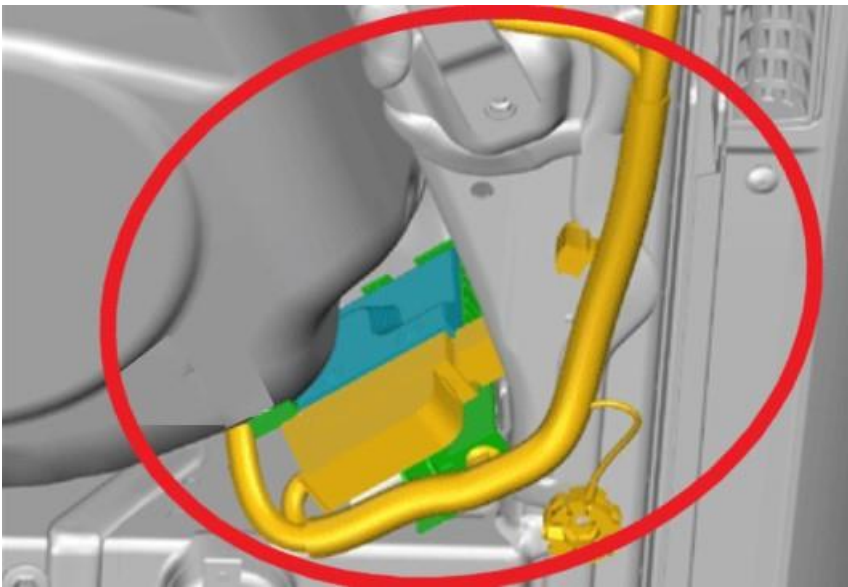


Figure 7

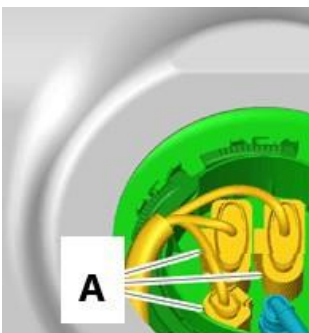


Figure 8



Should any issues be found regarding wiring harness damage – The operative must raise a new DISS query or update the already existing query ensuring photographs of the issue and a description of the damage is included

Or

Should no issues be found after conducting all steps the operative should raise a new DISS query or update the already existing query and await feedback before conducting any further work

Warranty accounting instructions

Warranty type: 910 or 110

Service ID number: 57 89

Damage type: 00 40

Diagnostic work

Labour operation code: 01 50 00 00

Time: Time taken from diagnostic log (Must not exceed 30 TU)

Time to conduct an electrical integrity check of the fuel pump control module harness

Labour operation code: 97 09 01 00

Time: 20 TU

Gain access to the fuel pump control module - Continental GT/C V8 and W12

Labour operation code: 20 70 19 00 Control unit J835

Time 30 TU

Labour operation code: 20 70 19 01 Control unit J538

Time 30 TU

Gain access to the fuel pump control module - Flying Spur Hybrid (V6)

Labour operation code 20 70 19 01

Time 90 TU

Gain access to the fuel pump control module - Flying Spur V8/W12

Labour operation code 20 70 19 00 J835

Time 30 TU

Labour operation code 20 70 19 01 J538

Time 30 TU

Remove and reinstall the rear seat cushion (All models)

Labour operation code 72 48 19 00

Time 10 TU

Wiring integrity checks

Labour operation code 97 09 01 00

Time 20 TU