

Technical product information

Topic	Bentley dynamic ride system warning displayed - DTC P0B2500: Hybrid/EV Battery "A" Voltage low' stored (48 volt system)
Market area	Bentley: worldwide (2WBE)
Brand	Bentley
Transaction No.	2068946/2
Level	EH
Status	Approval
Release date	

Event memory entries

Diagnostic address	Event memory entry	Fault type	Fault status
0021 - Battery management 2	P0B2500: Hybrid/EV Battery "A" Voltage Low		static
0021 - Battery management 2	P0B2500: Hybrid/EV Battery "A" Voltage Low		Intermittent

New customer code

Object of complaint	Complaint type	Position
running gear -> shock absorber/suspension control -> roll compensation	functionality -> defective function sequence	
running gear -> adaptive suspension, pitch and roll compensation	functionality	
information, navigation, communication, entertainment -> symbolic control indicators -> warning lamp for electronic stabilisation programme (ESC)	functionality -> activates	

Vehicle data

Bentayga/New Continental GT/C and New Flying Spur

Sales types

Type	MY	Brand	Designation	Engine code	Gearbox code	Final drive code
3S3*	2018	E		*	*	*
3S3*	2019	E		*	*	*
3S3*	2020	E		*	*	*
3S3*	2021	E		*	*	*
3S3*	2022	E		*	*	*
3S3*	2023	E		*	*	*
3S4*	2019	E		*	*	*
3S4*	2020	E		*	*	*
3S4*	2021	E		*	*	*
3S4*	2022	E		*	*	*
3S4*	2023	E		*	*	*
4V1*	2017	E		*	*	*
4V1*	2018	E		*	*	*
4V1*	2019	E		*	*	*
4V1*	2020	E		*	*	*
4V1*	2021	E		*	*	*
4V1*	2022	E		*	*	*
4V1*	2023	E		*	*	*
ZG2*	2019	E		*	*	*
ZG2*	2020	E		*	*	*
ZG2*	2021	E		*	*	*
ZG2*	2022	E		*	*	*
ZG2*	2023	E		*	*	*
ZV1*	2023	E		*	*	*

Documents

Document name
master.xml

Bentley dynamic ride system warning displayed - DTC P0B2500: Hybrid/EV Battery "A" Voltage low' stored (48 volt system)

Customer statement / workshop findings

Customer statement:

'Bentley dynamic ride system: fault' displayed within the Drivers Instrument Panel (DIP)

Workshop findings:

DTC 'P0B2500: Hybrid/EV Battery "A" Voltage low' stored within address 21-Battery Energy Control Module 2

Technical background

Possible internal fault with super capacitor, refer to the Measure section of this TPI

WARNING
 Hybrid vehicles use a High voltage system and MUST only be worked on by suitably qualified personnel

Revision history - 2051965/2

- Header data updated to include extended model years

Production change

Not applicable

Measure

Read the following MVB's to check the difference between the **highest cell voltage** and the **lowest cell voltage**.

21-Battery Energy Control Module 2 -> MVB -> IDE08217 and IDE8218

Measured value name	ID	Value
maximum voltage for battery cells	IDE08217	
value	MAS02985	
[L.O.]_Formula		
[L.O.]_Test_Program_Cell_voltage		1.851 V
[L.O.]_Cell_voltage_Textual		numerical value, no text
Index 1	MAS01234	
[L.O.]_Cell_index_Textual		numerical value, no text
minimum voltage for battery cells	IDE08218	
value	MAS02985	
[L.O.]_Formula		
[L.O.]_Test_Program_Cell_voltage		1.78 V
[L.O.]_Cell_voltage_Textual		numerical value, no text
Index 1	MAS01234	
[L.O.]_Cell_index_Textual		numerical value, no text

If there is a difference of 0.5v or more between the **highest** cell voltage and **lowest** cell voltage and the fault code '**P0B2500: Hybrid/EV Battery "A" Voltage low**' is stored in **address 21-Battery Energy Control Module 2** - Referring to the applicable Rep.Gr 93 - Replace the Super capacitor

Warranty accounting instructions

Warranty type 110 or 910

Damage service number

Damage code

Bentayga

Labour operation code 93 50 19 00

Time - 40 TU

Diagnosis time - 01 50 00 00 as per ODIS log must not exceed - 10 TU

Power electronics removed and installed - 93 50 19 50 - 10 TU

New Flying Spur

Labour operation code - 93 50 19 00 (Use 99 index until 29/06/23)

Time - 40 TU

Diagnosis time - 01 50 00 00 as per ODIS log must not exceed - 10 TU

Power electronics removed and installed - 93 50 19 50 10 TU (Use 99 index until 29/06/23)

New GT/C

Labour operation code 93 50 19 00

Time - 40 TU

Diagnosis time - 01 50 00 00 as per ODIS log must not exceed - 10 TU

Power electronics removed and installed - 93 50 19 50 - 10 TU

All models

De-energise and re-energise the high voltage system - 93 10 00 00 - 30 TU

Parts information

Refer to the ETKA parts catalogue