

Technical product information

Topic	Bentley dynamic ride system warning displayed- DTC P0B2500: Hybrid/EV Battery "A" Voltage low' stored
Market area	Bentley: worldwide (2WBE),Hongkong-Macau (5HK)
Brand	Bentley
Transaction No.	2051965/3
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		Intermittent
0021 - Battery management 2	P0B2500: Hybrid/EV Battery "A" Voltage Low		static

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*	2020	E		*	*	*
ZG2*	2021	E		*	*	*
ZG2*	2022	E		*	*	*
ZG2*	2023	E		*	*	*

Documents

Document name
master.xml

Customer statement / workshop findings

Customer statement:

'Bentleydynamicride 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

Revision history - 2051965/2

- Header data updated to include extended models and 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	
[LO]_Formula		
[LO]_Test_Program_Cell_voltage		1.851 V
[LO]_Cell_voltage_Textual		numerical value, no text
Index 1	MAS01234	
[LO]_Cell_index_Textual		numerical value, no text
minimum voltage for battery cells	IDE08218	
value	MAS02985	
[LO]_Formula		
[LO]_Test_Program_Cell_voltage		1.78 V
[LO]_Cell_voltage_Textual		numerical value, no text
Index 1	MAS01234	
[LO]_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 27 - Replace the Super capacitor

Warranty accounting instructions

Due to the numerous vehicle types, please refer to the Labour operations section within Elsa Pro

Parts information

Refer to the ETKA parts catalogue