

Technical Service Bulletin

Topic	E-Machine temperature fault DTC P0A2E00 Bentayga and Flying Spur (Hybrid) 20-23MY
Market area	Bentley: worldwide (2WBE),China 796 VW Import Comp. Ltd (Vico), Beijing (6796)
Brand	Bentley
Transaction No.	2077783/1
Level	EH
Status	Released for publishing
Release date	May 22, 2025

Diagnostic trouble codes

Diagnostic address	Diagnostic trouble code	Fault symptom	Storage state
0051 - Electric drive	P0A2E00: Drive Motor "A" Temperature Sensor Circuit Intermittent		static

New customer code

Object of complaint	Complaint type	Position
information, navigation, communication, entertainment -> malfunction display symbols -> fault display for electric motor	functionality -> activates	

Vehicle data

Bentayga PHEV and Flying Spur Hybrid

Sales types

Type	MY	Brand	Designation	Engine code	Gearbox code	Final drive code
4V14F9	2020	E	SUV PHEV BY636PH330/V6 8AG	DCBE	SAT	RZQ
4V14F9	2020	E	SUV PHEV BY636PH330/V6 8AG	DCBE	UDT	RZQ
4V14F9	2020	E	SUV PHEV BY636PH330/V6 8AG	EALD	VPK	RZQ
4V14F9	2020	E	SUV PHEV BY636PH330/V6 8AG	EALD	VFM	RZQ
4V14F9	2020	E	SUV PHEV BY636PH330/V6 8AG	EALD	UDT	RZQ
4V14F9	2020	E	SUV PHEV BY636PH330/V6 8AG	EALA	VFN	RZQ
4V14F9	2020	E	SUV PHEV BY636PH330/V6 8AG	EALA	UDT	RZQ
4V14F9	2020	E	SUV PHEV BY636PH330/V6 8AG	DCBE	VPK	RZQ
4V14F9	2020	E	SUV PHEV BY636PH330/V6 8AG	DCBE	VFN	RZQ
4V14F9	2020	E	SUV PHEV BY636PH330/V6 8AG	DCBE	VFM	RZQ
4V14F9	2021	E	SUV PHEV BY636PH330/V6 8AG	DCBE	SAT	RZQ
4V14F9	2021	E	SUV PHEV BY636PH330/V6 8AG	EALD	VFM	RZQ
4V14F9	2021	E	SUV PHEV BY636PH330/V6 8AG	EALD	UDT	RZQ
4V14F9	2021	E	SUV PHEV BY636PH330/V6 8AG	EALA	VFN	RZQ
4V14F9	2021	E	SUV PHEV BY636PH330/V6 8AG	EALD	VPK	RZQ
4V14F9	2021	E	SUV PHEV BY636PH330/V6 8AG	DCBE	VPK	RZQ
4V14F9	2021	E	SUV PHEV BY636PH330/V6 8AG	DCBE	VFN	RZQ
4V14F9	2021	E	SUV PHEV BY636PH330/V6 8AG	DCBE	VFM	RZQ
4V14F9	2021	E	SUV PHEV BY636PH330/V6 8AG	DCBE	UDT	RZQ
4V14F9	2021	E	SUV PHEV BY636PH330/V6 8AG	EALA	UDT	RZQ
4V14F9	2022	E	SUV PHEV BY636PH330/V6 8AG	DCBE	SAT	RZQ
4V14F9	2022	E	SUV PHEV BY636PH330/V6 8AG	DCBE	UDT	RZQ
4V14F9	2022	E	SUV PHEV BY636PH330/V6 8AG	EALD	VPK	RZQ
4V14F9	2022	E	SUV PHEV BY636PH330/V6 8AG	EALD	VFM	RZQ
4V14F9	2022	E	SUV PHEV BY636PH330/V6 8AG	EALD	UDT	RZQ
4V14F9	2022	E	SUV PHEV BY636PH330/V6 8AG	EALA	VFN	RZQ
4V14F9	2022	E	SUV PHEV BY636PH330/V6 8AG	EALA	UDT	RZQ
4V14F9	2022	E	SUV PHEV BY636PH330/V6 8AG	DCBE	VPK	RZQ
4V14F9	2022	E	SUV PHEV BY636PH330/V6 8AG	DCBE	VFN	RZQ
4V14F9	2022	E	SUV PHEV BY636PH330/V6 8AG	DCBE	VFM	RZQ
4V14F9	2023	E	SUV PHEV BY636PH340/V6 8AG	EALD	UDT	RZQ
4V14F9	2023	E	SUV PHEV BY636PH340/V6 8AG	DCBE	UDT	RZQ
4V14F9	2023	E	SUV PHEV BY636PH340/V6 8AG	DCBE	VFM	RZQ
4V14F9	2023	E	SUV PHEV BY636PH340/V6 8AG	DCBE	VFN	RZQ

4V14F9	2023	E	SUV PHEV BY636PH340/V6 8AG	EALD	VFM	RZQ
4V14F9	2023	E	SUV PHEV BY636PH340/V6 8AG	EALA	UDT	RZQ
4V14F9	2023	E	SUV PHEV BY636PH340/V6 8AG	EALA	VFN	RZQ
4V14F9	2023	E	SUV PHEV BY636PH340/V6 8AG	DCBE	VPK	RZQ
4V14F9	2023	E	SUV PHEV BY636PH340/V6 8AG	EALD	VPK	RZQ
ZG23GB	2022	E	Saloon (MSB) BY631PH400/V6 8AG	DGPF	UNS	UQQ
ZG23GB	2023	E	Saloon (MSB) BY631PH400/V6 8AG	DGPF	UUR	UQQ
ZG23GB	2023	E	Saloon (MSB) BY631PH400/V6 8AG	DGPF	UUR	UZK
ZG25GB	2023	E	Saloon S BY631PH400/V6 8AG	DGPF	USS	UQQ
ZG25GB	2023	E	Saloon S BY631PH400/V6 8AG	DGPF	USS	UZK

Documents

Document name
master.xml

Condition

MIL and/or HV warning message on DIP. DTC stored in 0051 Power Electronics P0A2E00: Drive Motor "A" Temperature Sensor Circuit.

MIL warning in USA region only, HV warning shown in all other regions.

Technical Background

The fault is associated with temperature jumps in the E-Machine temperature sensor. This occurs as a result of sudden changes in resistance in the crimp of the temperature sensor at high temperatures.

E-Machine temperature sensor part replacement is required to resolve the fault. Replacement of E-Machine is not required.

Refer to the measure section for part replacement procedure.

Production Solution

Vehicles are fitted with new level part number in production.

Service

⚠ DANGER

Prior to working on High Voltage vehicles. Always refer to ElsaPro for guided functions and related warnings for De-energising the High Voltage System. The high-voltage system must be de-energised by a suitably qualified person.

1. De-energise the high-voltage system. Refer to ElsaPro, Repair Group 93 – “De-energising high-voltage system” to do so.

2. Remove the electric drive temperature sensor.

Refer to ElsaPro Repair Group 93 – ‘Temperature sensor for front electric drive motor remove+install’ for temperature sensor removal procedure.

📌 NOTICE

For Flying Spur vehicles ONLY - The removal of the engine and automatic transmission assembly is necessary in order to remove the Drive motor temperature sender G712. Refer to ElsaPro Repair Group 10 ‘engine + gearbox remove + install’.

3. Install the new level electric drive temperature sensor.

Use figure 1 to help identify old and new level parts. Pay particular attention to the markings shown.

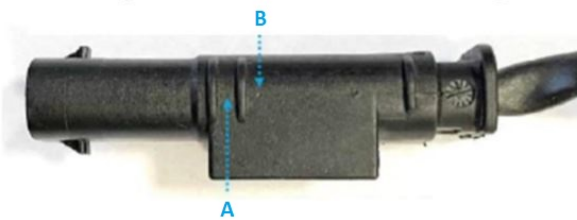


Figure 1

Markings shown by **A** (*indentation between the rib*) = **New level parts**

Markings shown by **B** (*Indentation to the right of the rib*) = **Old level parts**

📌 NOTICE

Correct part identification is critical to ensure compatibility and reliable system operation after installation.

Refer to ElsaPro Repair Group 93 – ‘Temperature sensor for front electric drive remove+install’ for temperature sensor install procedure.

4. Re-energise the high-voltage system. Refer to ElsaPro, Repair Group 93 – “Re-energising high-voltage system” to do so.

5. Once the new level temperature sensor is installed and predecessor operations have been followed as per ElsaPro. Take the vehicle on a test to ensure complete operation and no faults.

Warranty

Warranty Type – 110 or 90

Damage Service Number – 93 45

Damage Code – 00 21

Labour

Flying Spur

Time to De-energise the high-voltage system

Labour Operation Code – 93 10 00 00

Time – 30 TU

Time to Remove + Install Engine and Gearbox

Labour Operation Code – 10 85 19 30

Time – 1800 TU

Time to Replace Electric Drive Temperature sensor

Labour Operation Code – 93 45 19 80

Time – 170 TU

Road test

Labour operation code 01 21 00 01

Time – 30 TU

Bentayga

Time to De-energise the high-voltage system

Labour Operation Code – 93 10 00 00

Time – 30 TU

Time to Replace Electric Drive Temperature sensor

Labour Operation Code – 93 45 19 80

Time – 180 TU

Road test

Labour operation code 01 21 00 01

Time – 30 TU

Required Parts and Tools

Bentayga – 0D7 398 002

Flying Spur – 0DS 317 073

Refer to ETKA parts catalogue