Technical product information

Topic	Bentayga Hybrid - Drive Motor Position Sensor - DTC P0C5*00
Market area	Bentley: worldwide (2WBE)
Brand	Bentley
Transaction No.	2059027/4
Level	EH
Status	Approval
Release date	

New customer code

Object of complaint	Complaint type	Position
information, navigation, communication, entertainment -> symbolic fault indicators -> transmission fault indicator	functionality -> activates	
information, navigation, communication, entertainment -> instrument cluster, displays, display panels	control units, services	

New workshop code

Object of complaint	Complaint type	Position
electrical power, electric system, data transfer -> function-specific wiring harnesses -> automatic gearbox harness	dimensional accuracy -> too long	
electrical power, electric system, data transfer -> function-specific wiring harnesses -> automatic gearbox harness	component / consumables -> damaged	
electrical power, electric system, data transfer -> function-specific wiring harnesses -> automatic gearbox harness	component / consumables -> pinched	
electrical power, electric system, data transfer -> function-specific wiring harnesses -> automatic gearbox harness	component / consumables -> chafes	
electrical power, electric system, data transfer -> data bus systems -> data bus diagnostic interface	control units, services -> with event log entry	

Vehicle data

Bentayga Hybrid

Sales types

Type	MY	Brand	Designation	Engine code	Gearbox code	Final drive code
4V14F9	2020	E		*	*	*
4V14F9	2021	E		*	*	*
4V14F9	2022	E		*	*	*

Documents

Document name
master.xml

Customer statement / workshop findings

Various warning messages on Driver Instrument Panel (DIP)

Unable to *select EV Drive* mode.

Fault codes stored in multiple diagnostic addresses for "*Data-bus errors*".

Diagnostic Trouble Codes (DTC's) P0C5*00 - "*Drive motor "A"* " faults - stored in address *51 - Drive Motor Control Module*.

Technical background

DTC's - P0C5*00 - may be set within address *51 - Drive Motor Control Module* If the transmission 12 Volt harness becomes damaged or there are unsatisfactory electrical connections within the connector for *Drive Motor Position Sensor*.

The stored DTC's would indicate an issue with *Drive motor "A",* however, prior to carrying out any fault diagnosis use the information within the *Measure* section of this document as an initial check.

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Note to Product support: Please also consider TPI 2066714/-

Revision history TPI 2059027/4

- Note to Product Support added to reference TPI 2066714/- as the symptom is similar
- Addition of warranty LOT codes

Production change

Excess transmission harness secured with cable tie from VIN31584.

Measure

With DTC's P0C5*00 stored in address *51 - Drive Motor Control Module* inspect the 12 Volt transmission harness for external damage – *figure 1*. Check the integrity of the connector terminals for the *Drive Motor Position Sensor – figure 2* - with respect to the transmission 14 way interconnect.

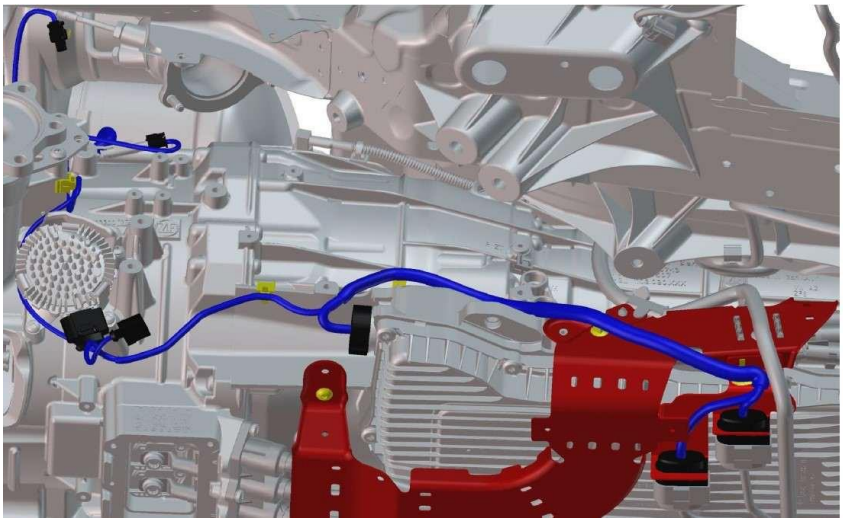

Figure 1

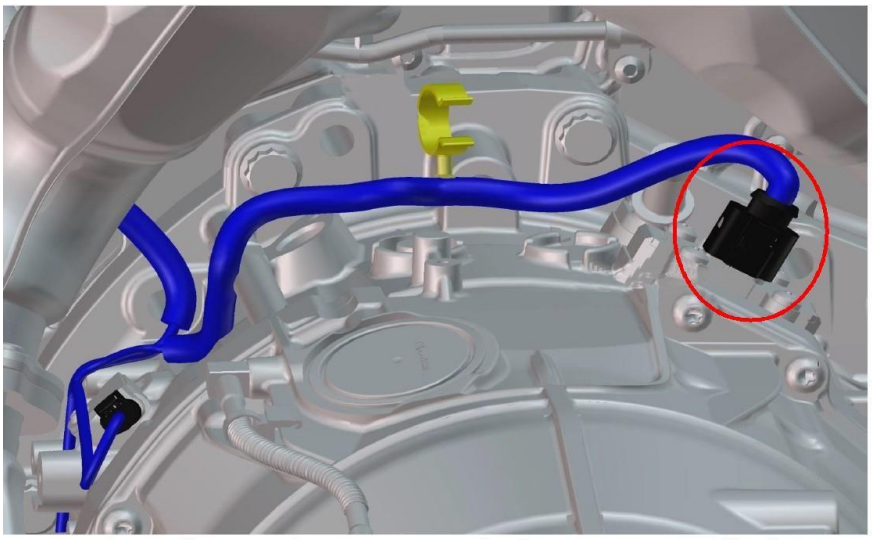

Figure 2

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Note: On Left hand drive vehicles the transmission harness may foul the lower steering column – figure 3. If a foul condition exists or the harness is in close proximity to the steering column, visually check the harness for damage, if damage is not present move the excess harness to the side of the Clutch Actuator Unit – figure 4 - excess harness should be secured to the Clutch Actuator Unit connector using a suitable cable tie – figure 5.

If the harness is damaged carry out a suitable repair and then secure excess harness to the Clutch Actuator Unit connector using a cable tie – figure 5.

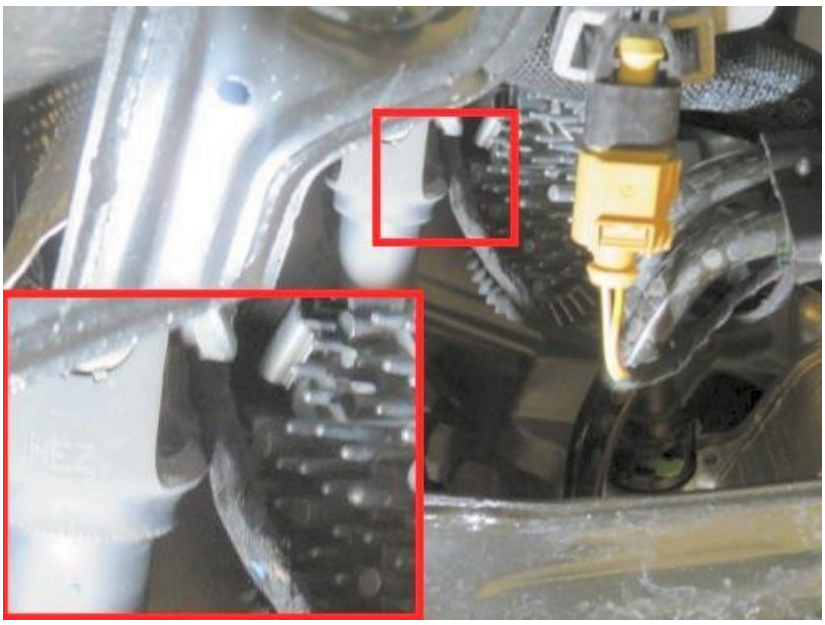

Figure 3

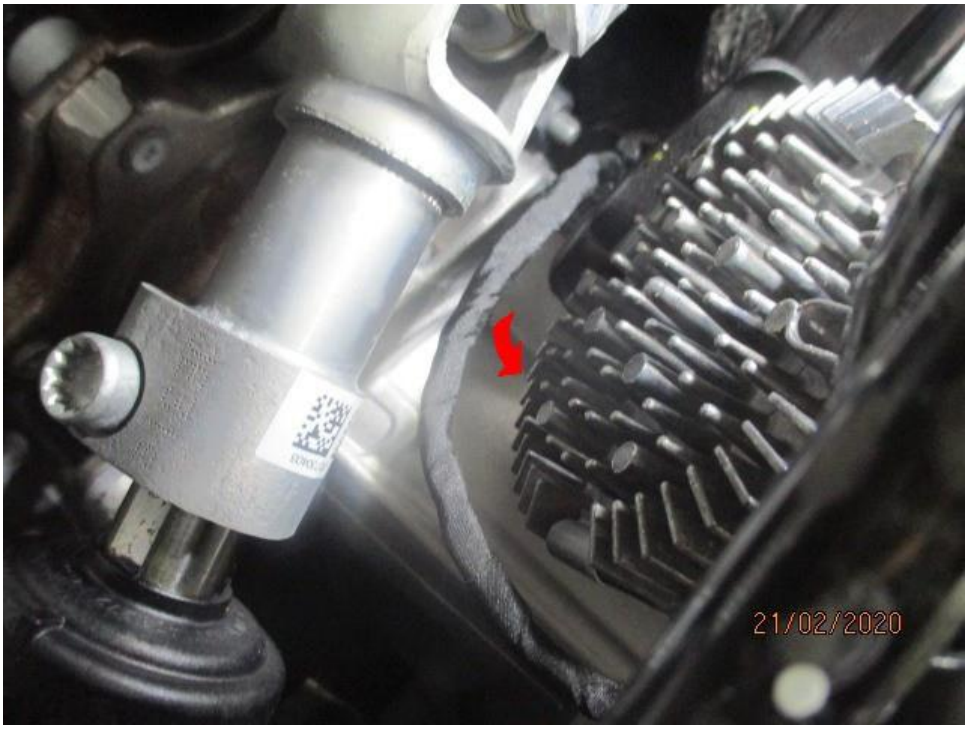

Figure 4

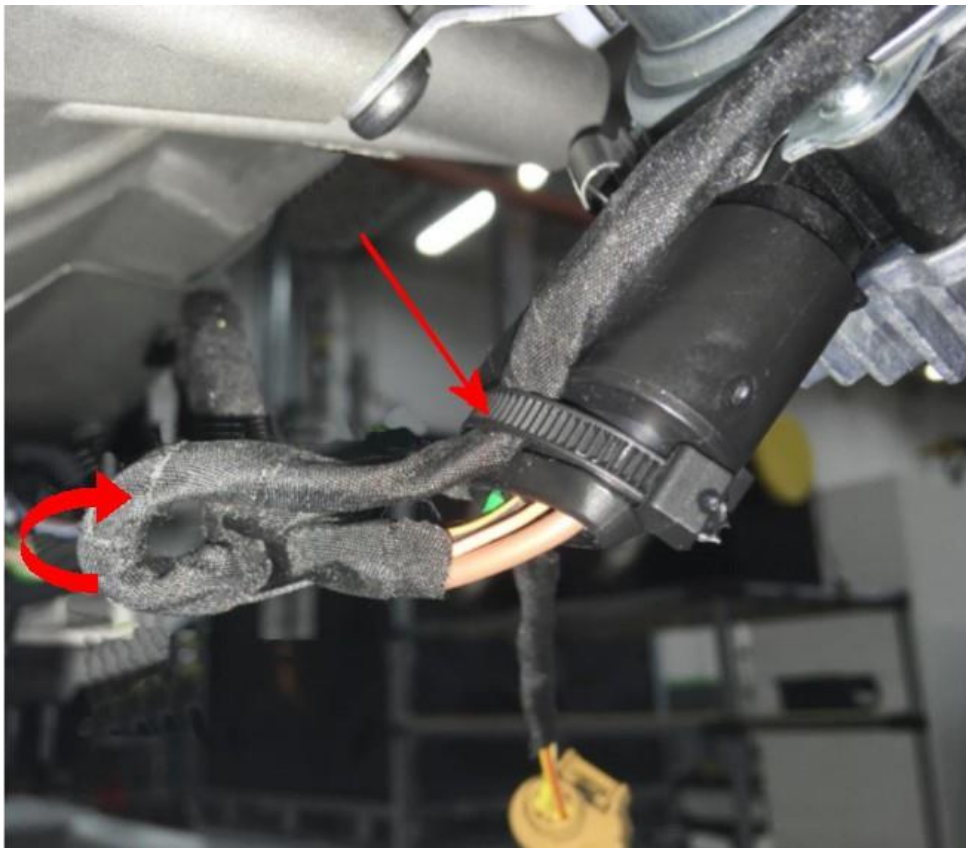

Figure 5

If no issues are detected, continue with any allocated *guided fault finding* paths to identify the root cause of the DTC.

WARNING

Take care - do not interfere with the high voltage system.

High voltage can cause fatal injury.

Danger of severe or fatal injuries from high-voltage components or high-voltage wiring if they are severely damaged.

Warranty accounting instructions

Warranty type	110 or 910
Damage service number	97 81
Damage code	00 25

Initial harness damage check

Labour

Labour operation code	97 81 01 00
Time	40 TU

Guided Fault Finding

Labour

Labour operation code	01 50 00 00
Time	As per ODIS log must not exceed 50 TU

Wiring integrity check

Labour

Labour operation code	97 09 01 00
Time	Must not exceed 70 TU

Wiring repair

Labour operation codes

- 97 09 41 51 (1 wire) 30 TU
- 97 09 41 52 (2 wires) 40 TU
- 97 09 41 53 (3 wires) 50 TU
- 97 09 41 56 (4-6 wires) 70 TU
- 97 09 41 58 (7-8 wires) 90 TU