

Technical product information

Topic	DTC B101C29 and/or DTC B101D29 evident within the airbag control unit (J234)
Market area	Australia E04 Bentley rest Asia and Australia (6E04),China 723 Volkswagen (Anhui) Automotive CO (6723),China 796 VW Import Comp. Ltd (Vico), Beijing (6796),Germany E02 Bentley rest Europe (6E02),Japan E03 Bentley Japan (6E03),Korea, (South) E08 Bentley South Korea (6E08),United Arab Emirates E06 Bentley Middle East and Africa (6E06),United Kingdom E01 Bentley UK (6E01),United States E05 Bentley USA and rest America (6E05)
Brand	Bentley
Transaction No.	2071047/3
Level	EH
Status	Approval
Release date	

Event memory entries

Diagnostic address	Event memory entry	Fault type	Fault status
0015 - Airbag	B101C29: Driver seat belt switch implausible signal		Intermittent
0015 - Airbag	B101D29: Front passenger side safety belt switch implausible signal		Intermittent
0015 - Airbag	B101C29: Driver seat belt switch implausible signal		static
0015 - Airbag	B101D29: Front passenger side safety belt switch implausible signal		static

New customer code

Object of complaint	Complaint type	Position
occupant protection, pedestrian protection -> airbag	component / consumables	
occupant protection, pedestrian protection -> seat belts, 1st row	component / consumables	

Vehicle data

Bentayga Series

Sales types

Type	MY	Brand	Designation	Engine code	Gearbox code	Final drive code
4V1*	2021	E		*	*	*
4V1*	2022	E		*	*	*
4V1*	2023	E		*	*	*
4V1*	2024	E		*	*	*
ZV1*	2023	E		*	*	*
ZV1*	2024	E		*	*	*

Documents

Document name
master.xml

DTC B101C29 and/or DTC B101D29 evident within the airbag control unit (J234)

Customer statement / workshop findings

One or a combination of the following DTC's are evident within the airbag control unit (J234)

B101C29: Driver seat belt switch implausible signal

And/or

B101D29: Front passenger side safety belt switch implausible signal

Technical background

Refer to the Measure section of this TPI ensuring all steps are followed to completion depending on the side in which the issue is evident (driver and/or passenger)

NOTICE

The process within the Measure section requires the operative to conduct the following whilst monitoring and recording specific MWB's (IDE01193 and IDE01194)

- Manoeuvre the seatbelt buckle whilst the seatbelt tongue is inserted into the seatbelt buckle
- Remove and refit the seatbelt tongue from the seatbelt buckle

Hint: For clarity, there are videos located on the Bentley Hub reference TPI 2071047/- Video 1 and Video 2 which show the required steps which must be conducted whilst monitoring the MWB's

NOTICE

Whilst conducting the MWB instructions within this particular TPI the operative must refer to TPI 2071131/- Measured values - Cycle recording instructions

Production change

Measure

WARNING

Ensure all safety information and repair manual instructions within the repair manual are strictly adhered to when working on or around the air bag system and seat belt pre-tensioners as detailed within Rep.Gr 69

Drivers side

- 1) Insert the drivers side seatbelt tongue into the seatbelt buckle (Figure 1)
- 2) Referring to TPI 2071131/- Measured values - Cycle recording instructions - Record MVB IDE01193 (Drivers side) whilst manoeuvring the seatbelt buckle assembly - Reference the Bentley Hub TPI 2071047/- (Video 1)



Figure 1

3) Referring to TPI 2071131/- Measured values - Cycle recording instructions - Record MVB IDE01193 (Drivers side) whilst installing and removing the seatbelt tongue from the buckle the seatbelt buckle assembly - *Reference the Bentley Hub TPI 2071047/- (Video 2)*

4) Referring to the applicable wiring diagram/Figure 2 - Locate E24

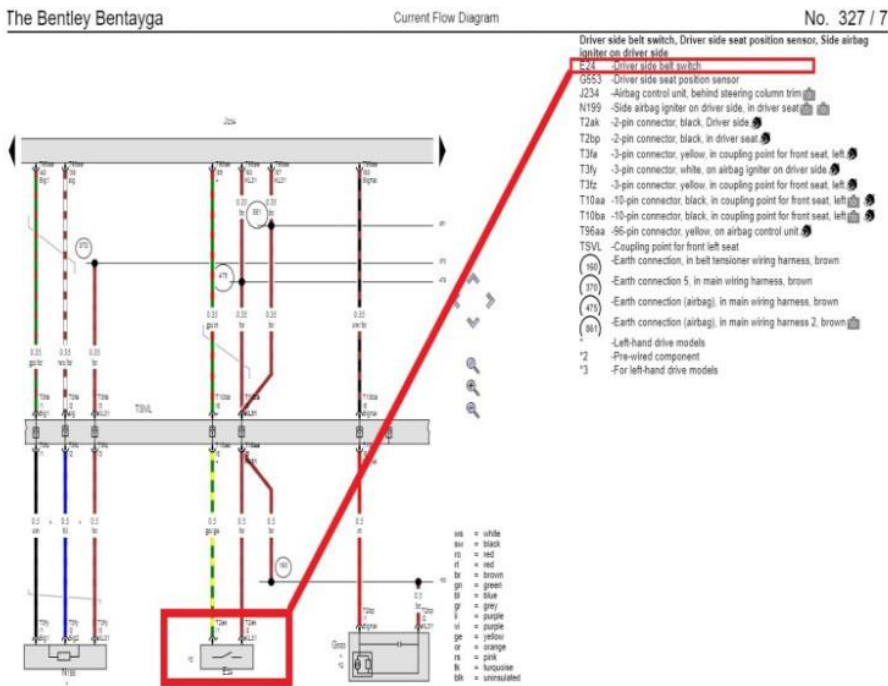


Figure 2

5) Referring to Figure 3 - Disconnect the E24 connection (circle)

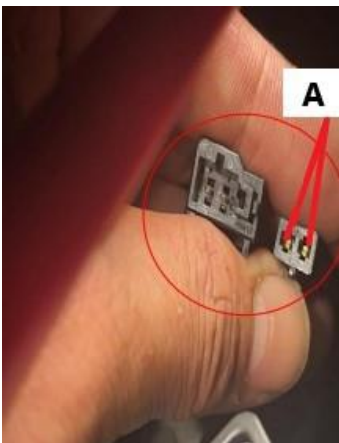


Figure 3

6) With the tongue **inserted** into the buckle (Figure 1) measure and record the resistance of the drivers side seatbelt buckle using a suitable multimeter



Hint: The next part of the procedure requires the resistance of the seat belt buckle harness to be measured. The resistance measurement must be taken at the location shown in Figure 3 (Point A) The operative must take care not to damage the terminals shown at point A when taking the resistance measurements

Resistance measurement with the tongue inserted in the buckle

$\Omega =$

Comments:

7) With the tongue **removed** the buckle measure and record the resistance from the drivers side seatbelt buckle using a suitable multimeter



Hint: The next part of the procedure requires the resistance of the seat belt buckle harness to be measured. The resistance measurement must be taken at the location shown in Figure 3 (Point A) The operative must take care not to damage the terminals shown at point A when taking the resistance measurements

Resistance measurement with the tongue removed the buckle

Ω =

Comments:

- Raise a technical DISS query - Ensure that a current ODIS log and all of the required XML files are attached to a new or existing technical DISS query
- Await feedback from Product Support before conducting any further work or diagnosis

NOTICE

NOTE TO PRODUCT SUPPORT ON RECEIPT OF A QUALIFYING DISS QUERY

- Please second level the query to the Electrical Senior Engineer - Do Not respond until a response has been received from the Electrical Senior Engineer

Passenger side

- 1) Referring to Figure 4 - Insert the passenger side seatbelt tongue into the seatbelt buckle
- 2) Referring to TPI 2071131/- Measured values - Cycle recording instructions - Record MVB IDE01194 (passenger side) whilst manoeuvring the seatbelt buckle assembly - *Reference the Bentley Hub TPI 2071047/- (Video 1)*



Figure 4

- 3) Referring to TPI 2071131/- Measured values - Cycle recording instructions - Record MVB IDE01194 (passenger side) whilst installing and removing the seatbelt tongue from the buckle the seatbelt buckle assembly - *Reference the Bentley Hub TPI 2071047/- (Video 2)*
- 4) Referring to the applicable wiring diagram/Figure 5 - Locate E25

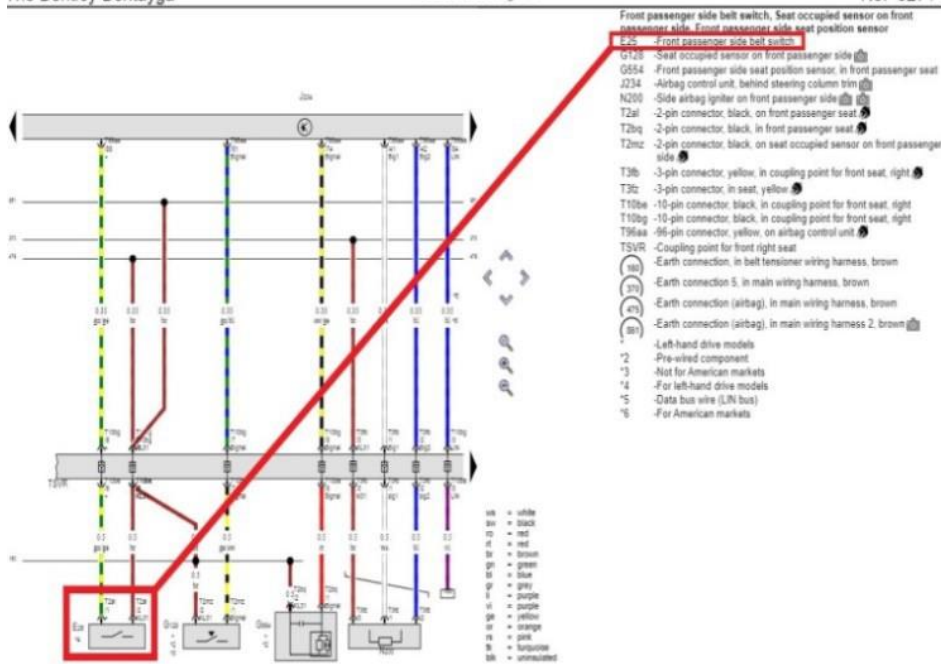


Figure 5

5) Referring to Figure 6 - Disconnect the E25 connection (circle)

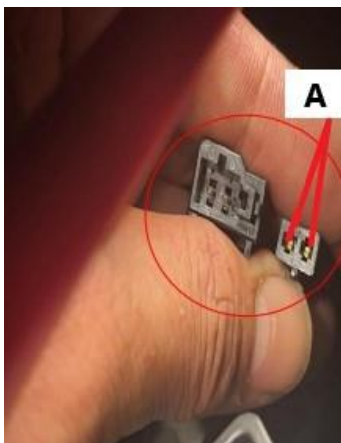


Figure 6



Hint: The next part of the procedure requires the resistance of the seat belt buckle harness to be measured. The resistance measurement must be taken at the location shown in Figure 3 (Point A) The operative must take care not to damage the terminals shown at point A when taking the resistance measurements

6) With the tongue **inserted** into the buckle (Figure 1) measure and record the resistance of the passenger side seatbelt buckle using a suitable multimeter

Resistance measurement with the tongue inserted in the buckle

Ω =
 Comments:

7) With the tongue **removed** the buckle measure and record the resistance from the passenger side seatbelt buckle using a suitable multimeter



Hint: The next part of the procedure requires the resistance of the seat belt buckle harness to be measured. The resistance measurement must be taken at the location shown in Figure 3 (Point A) The operative must take care not to damage the terminals shown at point A when taking the resistance measurements

Resistance measurement with the tongue removed the buckle

Ω =
 Comments:

- Raise a technical DISS query - Ensure that a current ODIS log and all of the required XML files are attached to a new or existing technical DISS query
- Await feedback from Product Support before conducting any further work or diagnosis

! NOTICE

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Warranty accounting instructions

Warranty Type 110 or 910

Damage Service Number 69 24

Damage Code 00 40

Labour Operation Code 01 50 00 00

Time As per ODIS log (Must not exceed 50 TU's)