

Technical product information

Topic	DTC P057300: Brake Switch "A" Circuit High evident within the ECM(s) - Various warnings evident within the DIP
Market area	United States E05 Bentley USA and rest America (6E05)
Brand	Bentley
Transaction No.	2075419/1
Level	EH
Status	Approval
Release date	

Event memory entries

Diagnostic address	Event memory entry	Fault type	Fault status
0001 - Engine electronics	P057300: Brake Switch "A" Circuit High		Intermittent
0001 - Engine electronics	P057300: Brake Switch "A" Circuit High		static

New customer code

Object of complaint	Complaint type	Position
engine -> emission control	control units, services	

Vehicle data

V8 Kovomo and W12 engine derivatives

Sales types

Type	MY	Brand	Designation	Engine code	Gearbox code	Final drive code
3S31EB	2023	E		*	*	*
3S31EB	2024	E		*	*	*
3S32CB	2023	E		*	*	*
3S32CB	2024	E		*	*	*
3S34CB	2023	E		*	*	*
3S34CB	2024	E		*	*	*
3S41EB	2023	E		*	*	*
3S41EB	2024	E		*	*	*
3S42CB	2023	E		*	*	*
3S42CB	2024	E		*	*	*
3S44CB	2023	E		*	*	*
3S44CB	2024	E		*	*	*
ZG21BB	2023	E		*	*	*
ZG21BB	2024	E		*	*	*
ZG22CB	2023	E		*	*	*
ZG24CB	2023	E		*	*	*
ZG24CB	2024	E		*	*	*
ZG26BB	2023	E		*	*	*
ZG26BB	2024	E		*	*	*

Documents

Document name
master.xml

DTC P057300: Brake Switch "A" Circuit High evident within the ECM(s) - Various warnings evident within the DIP

Customer statement / workshop findings

The following symptoms may be evident (depending on Model Year)

23 Model Year

- Drive system warning / safeguard warning in the DIP
- DTC P057300: Brake Switch "A" Circuit High evident within the Engine Control Module(s)

24 Model Year

- Engine warning light evident within the DIP along with Drive system warning / safeguard warning in the DIP
- DTC P057300: Brake Switch "A" Circuit High evident within the Engine Control Module(s)

Technical background

In the event the symptoms are as described the operative should ask driver of the vehicle the questions within the Measure section (Section 1)

The operative must also conduct the brake pedal measurement procedure (Section 2)

Once Section 1 and Section 2 are complete the operative must attach all required information to a new or existing DISS query

Production change

Under investigation

Measure

NOTICE

The operative must ask the driver the following questions

Section 1 - Questions

Question 1

Is the vehicle specified with Iron Or Carbon ceramic brakes (CSIC)?

YES

Comments:

NO

Comments:

Question 2

Does the driver use the two footed driving method (left foot on brake / right foot on accelerator)

YES

Comments:

NO

Comments:

Question 3

Does the driver rest there left foot on the brake pedal whilst driving?

YES

Comments:

NO

Comments:

Question 4

When did the engine light - Drive system warning or safeguard warning light illuminate?

For example:

- After starting the vehicle from cold?

YES

Comments:

NO

Comments:

Question 5

Did the engine light - Drive system warning or safeguard warning light illuminate after a drive cycle (engine at operating temperature)?

YES

Comments:

NO

Comments:

Question 6

Did the engine light - Drive system warning or safeguard warning light illuminate whilst the vehicle was in slow moving traffic (vehicle stopping and starting)?

YES

Comments:

NO

Comments:

Question 7

Did the engine light - Drive system warning or safeguard warning light illuminate whilst driving on the motorway?

YES

Comments:

NO

Comments:

Question 8

Was ACC activated when the engine light - Drive system warning or safeguard warning light illuminated?

YES

Comments:

NO

Comments:

Question 9

Did the engine light - Drive system warning or safeguard warning light illuminate whilst manoeuvring the vehicle at slow speed?

YES

Comments:

NO

Comments:

Question 10

Did the engine light - Drive system warning or safeguard warning light illuminate shortly after braking occurred via the foot or ACC if active

YES

Comments:

NO

Comments:

NOTICE

The operative **MUST** now conduct Section 2

Section 2 - Brake pedal travel measurement procedure

1) Connect a suitable battery charger - Refer to Rep.Gr 27

- Connect a suitable diagnostic machine with ODIS capability
- Select and run Guided fault finding
- Select the Measured values from the engine control module (Figure 1)

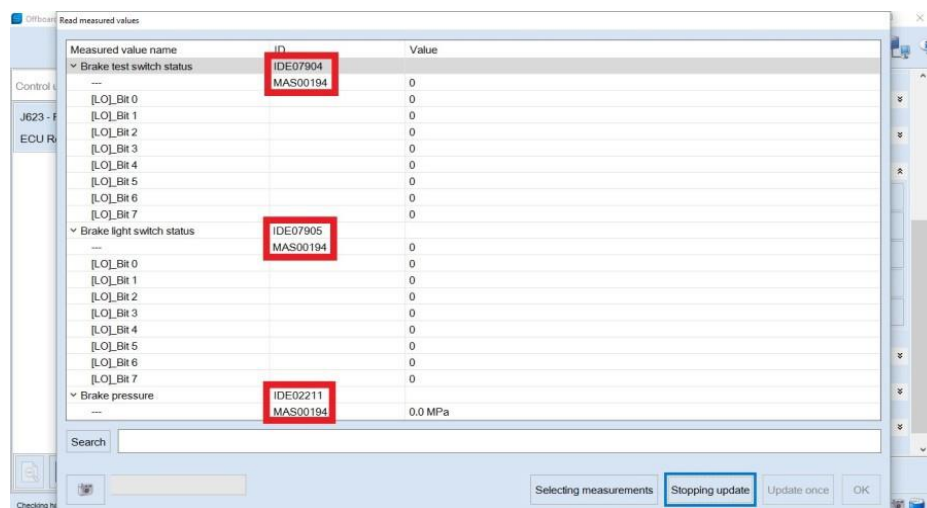


Figure 1

2) Referring to Figure 2 - Use suitable adhesive backed tape - Stick / adhere WT 10084 to the footrest at the location shown



HINT: The specification of the footrest and brake pedal may be different than shown in Figure 2, the operative must ensure the given measurements are used regardless of specification

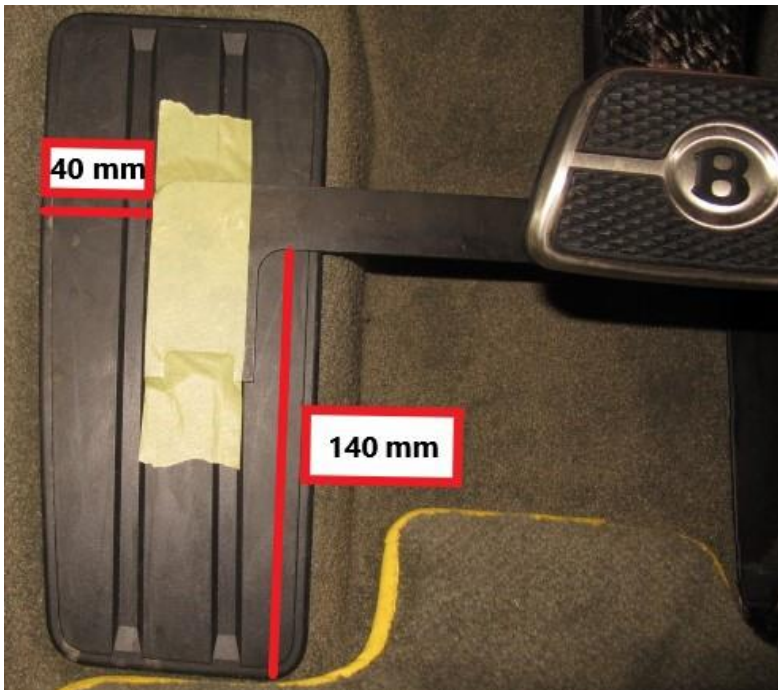


Figure 2

3) Position a steel rule as shown in Figure 3 ensuring the rule is positioned as shown

Point A - Tip of the rule positioned against the carpet

Point B - Upper edge of the rule positioned against the lower edge of WT 10084

Point C - Upper edge of the rule positioned against the lower edge of the brake pedal

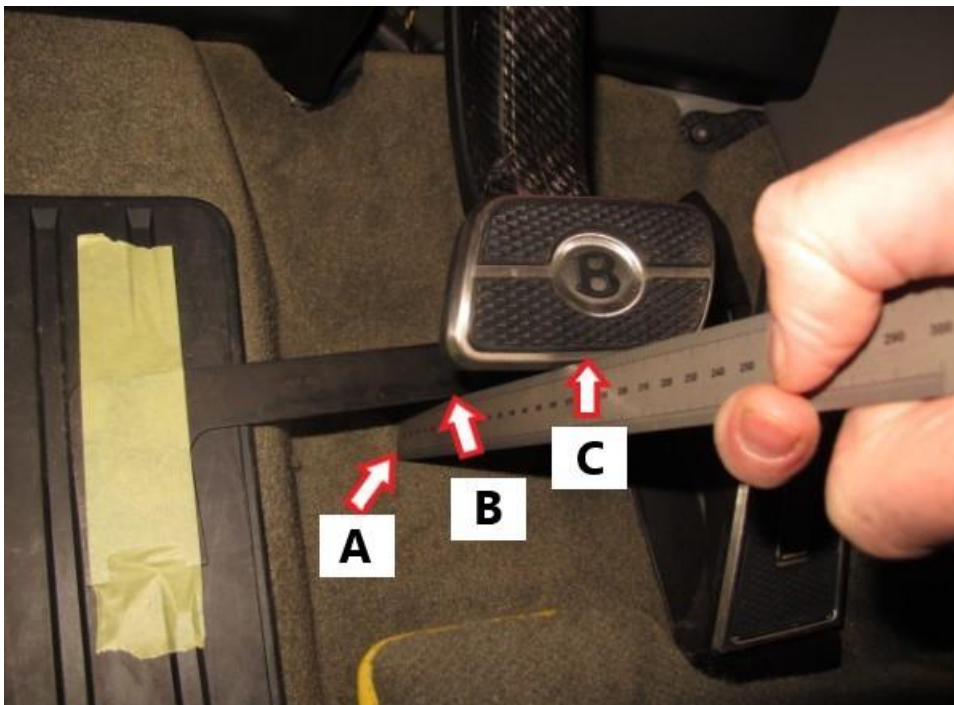


Figure 3

CAUTION

Before conducting step 4 the operative must ensure the parking brake is applied, the vehicle must be parked in a well ventilated area Or suitable exhaust extraction equipment must be used

4) Start the engine and allow the engine to idle

CAUTION

An extra operative is required whilst conducting Steps 6 and 7

The first operative should operate / measure the brake pedal travel as instructed whilst the second operative monitors the applicable brake switch Measured values

5) Referring to Figure 4 - Ensure the brake pedal is in its neutral position (not pressed) measure the distance in Millimetres from carpet to the lower edge of the brake pedal

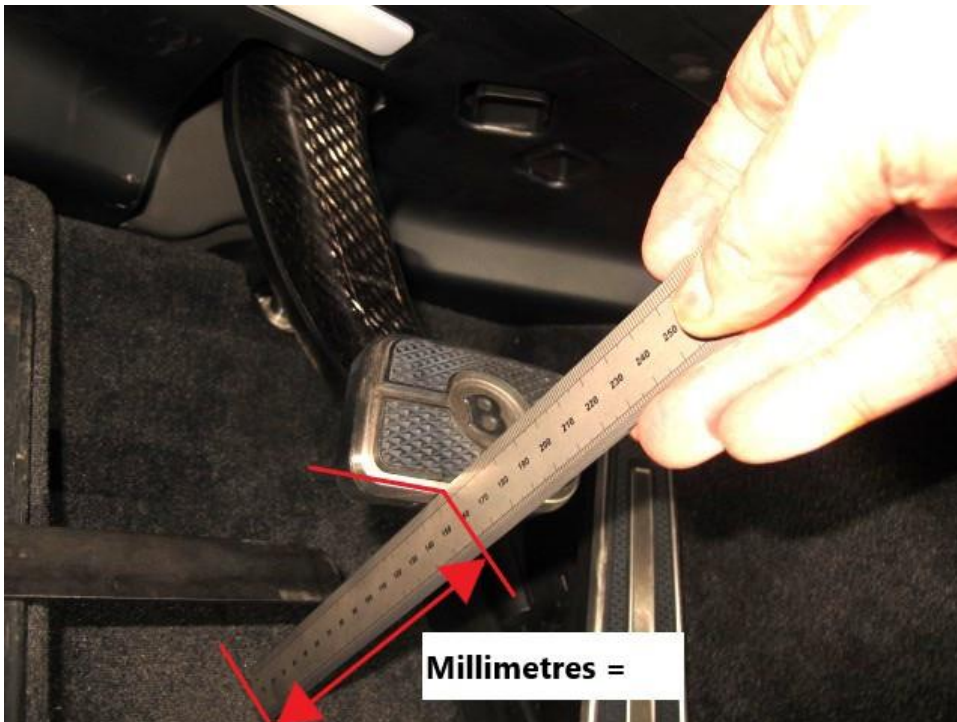


Figure 4

6) Referring to Figure 5 - Ensure the brake pedal is in its neutral position (not pressed)

- Gently press the brake pedal (by hand) until the brake light status of IDE 07905 changes from 0 to 1 (also refer to Figure 6)
- As soon as IDE 07905 changes from 0 to 1 the operative should record / note the measurement of the pedal travel from neutral position (not pressed) to the activation point of IDE 07905 (change from 0 to 1)
- Save and record the brake pressure value in MPa

Hint: The measurement will be required to be logged at the end of the procedure

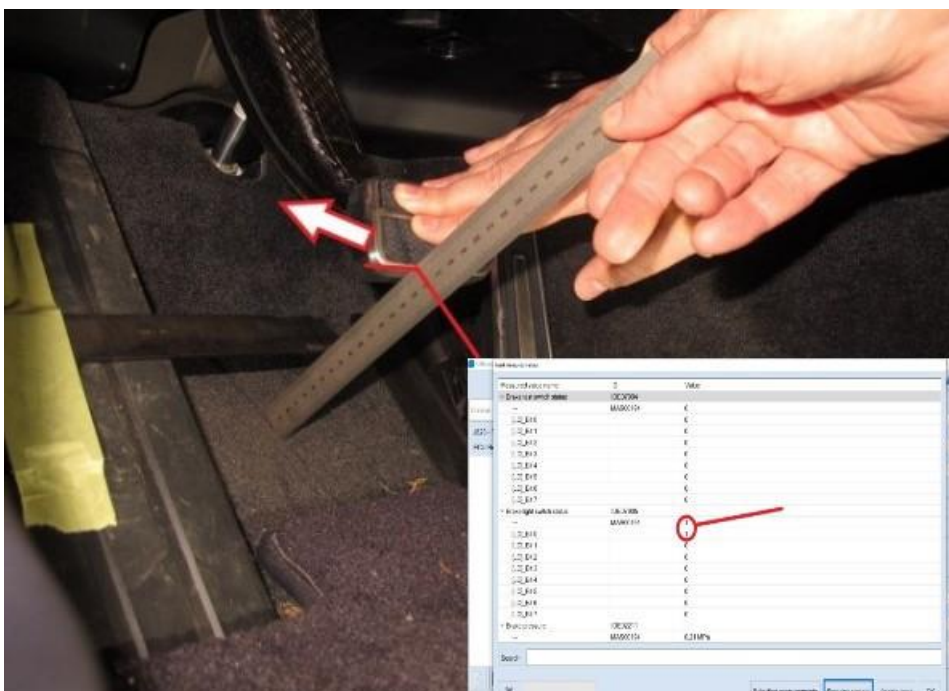


Figure 5

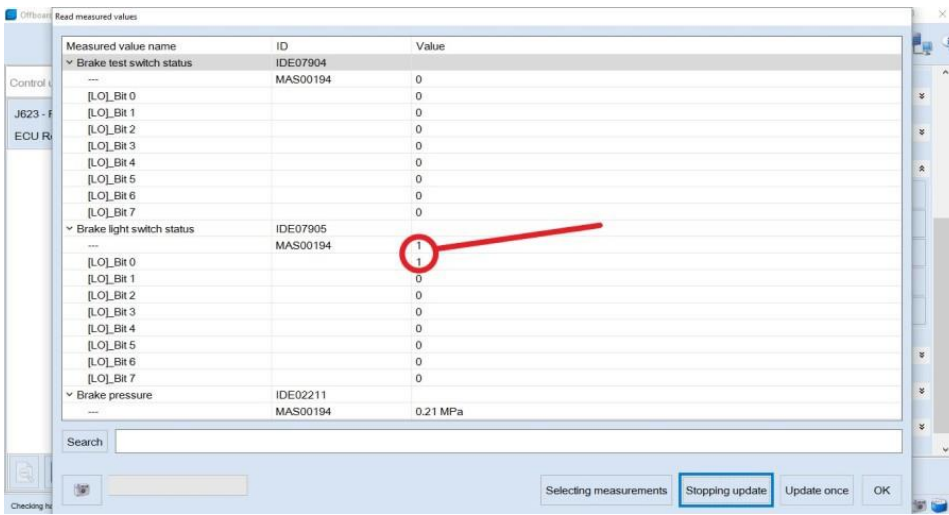


Figure 6

7) Referring to Figure 7 - Gently press the brake pedal further (by hand) until the brake light status of IDE 07904 changes from 0 to 1 (also refer to Figure 8)

- As soon as IDE 07904 changes from 0 to 1 the operative should record / note the measurement of the pedal travel
- Save and record the brake pressure value in MPa

Hint: The measurement will be required to be logged at the end of the procedure

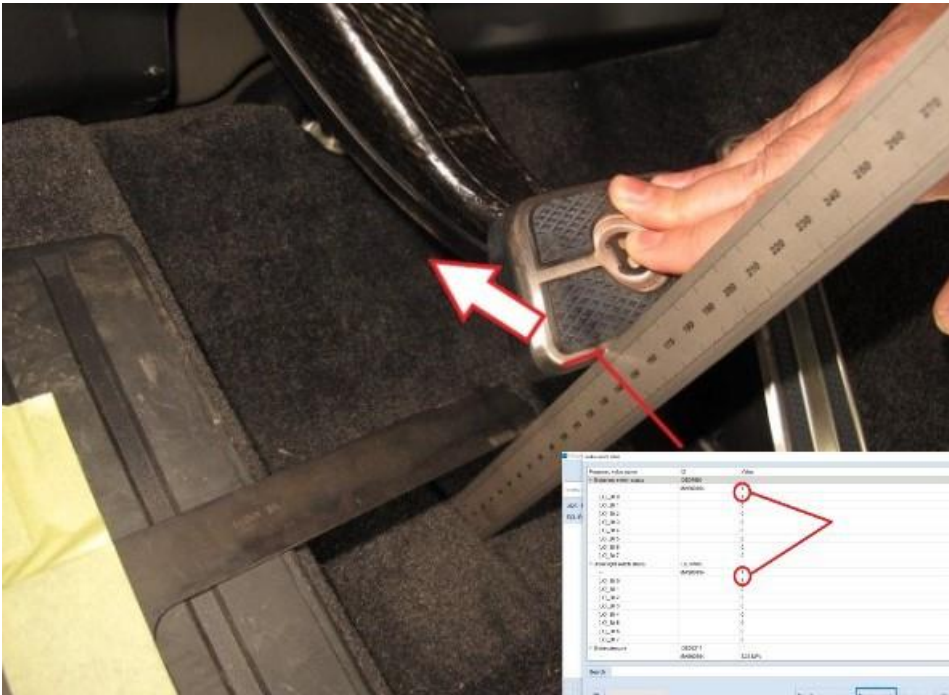


Figure 7

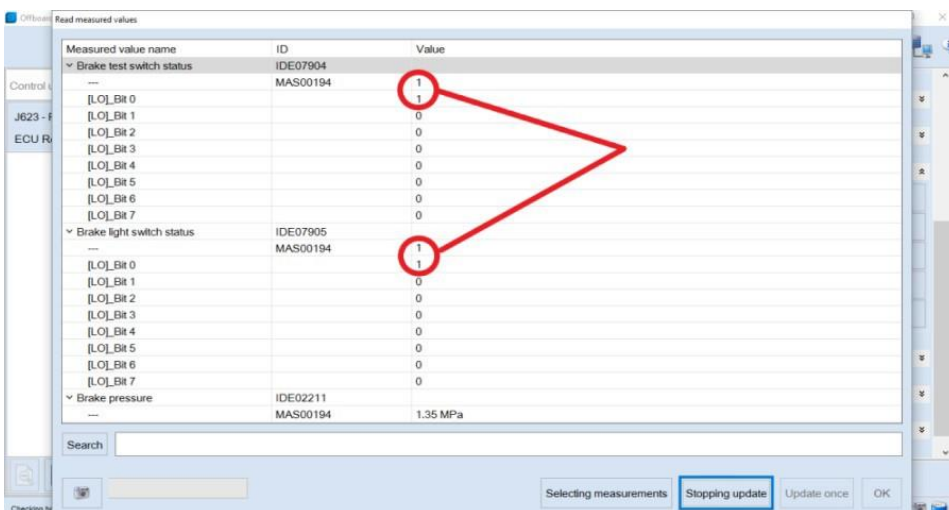


Figure 8

8) Record the measurements in the tables below for Steps 5,6 and 7

Step 5

Brake pedal distance from carpet to brake pedal as Figure 4	Distance in Millimetres =
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Step 6

Brake light switch status IDE07905	Travel in Millimetres =
Brake pressure IDE02211	MPa =

Step 7

Brake pedal test switch status IDE07904	Travel in Millimetres =
Brake pressure IDE02211	MPa =

9) Save an online ODIS log online of the diagnostic session and upload the measurements including the brake pressure results as shown in the table above

10) Upload all required information to a new or existing DISS query and await feedback before conducting any further work



NOTE TO PRODUCT SUPPORT: On a receipt of a qualifying DISS query please send level 2 to the Chassis Senior Engineer and await feedback before responding to the retailer

Warranty accounting instructions

Warranty type 110 or 910

Damage service number 46 05

Damage code 00 55

Diagnosis time

Labour operation code 01 50 00 00

Time As per ODIS log must not exceed 60 TU