

Technical Service Bulletin

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| Topic | Bentayga - 1.2 - 1.4KHz rear brake squeal |
| Market area | Bentley: worldwide (2WBE),Hongkong-Macau (5HK) |
| Brand | Bentley |
| Transaction No. | 2046299/4 |
| Level | EH |
| Status | Released for publishing |
| Release date | May 20, 2019 |

New customer code

| Object of complaint | Complaint type | Position |
|---|-----------------------------|----------|
| chassis -> brakes, brake regulation -> foot brake | noises, vibrations -> noise | |

New workshop code

| Object of complaint | Complaint type | Position |
|--|-----------------------------|------------|
| chassis -> brake system -> brake pads (disc brake) | noises, vibrations -> noise | left rear |
| chassis -> brake system -> brake pads (disc brake) | noises, vibrations -> noise | right rear |

Vehicle data

Bentayga

Sales types

| Type | MY | Brand | Designation | Engine code | Gearbox code | Final drive code |
|------|------|-------|-------------|-------------|--------------|------------------|
| 4V1* | 2017 | E | | * | * | * |
| 4V1* | 2018 | E | | * | * | * |
| 4V1* | 2019 | E | | * | * | * |
| 4V1* | 2020 | E | | * | * | * |

Documents

| Document name |
|----------------------------|
| master.xml |

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Condition

Squeal from the rear of the vehicle at low speed while braking.

Technical Background

While braking at low speed, a vibration of 1.2 to 1.4 KHz can be produced by the friction between the rear brake pad and disc resulting in a complaint of brake noise from the customer

Production Solution

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Service

1) Follow the 'Brake noise identification' **TPI 2052785 - IMPORTANT:** For frequency analysis the noise recording equipment Bentley Motors recommends is the Chassis ear tool **WT 10437**

2) If the sound recording produces a frequency of 1.2-1.4KHz, fit the shim set **36A 698 219** to the rear brake pads (the kit consists of one shim per pad)

NOTE: G052 560 A2 "Vary Bond Regular Grade Grease"(100 gram tube) is also required to be used in conjunction with the shims

3) Remove the rear brake pads as per Repair manual Rep.Gr 46 - Rear Brake Pads - To Remove and Fit and check the actual condition of the brake pads - If the brake pads are to be refitted it will be necessary to make note of the position of the pads for installation purposes.

CAUTION: The performance of the car will be affected if the brake pads are installed in the incorrect position

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If new brake pads are required, photographic evidence of the pad thicknesses and the back plate of the pads must be supplied through a DISS technical query.

IMPORTANT: The following instructions regarding grease application must also be followed regardless if the brake pads are to be replaced or renewed

4) Carefully clean the back plate of the pad using a suitable brake cleaner **IMPORTANT:** Take care not to damage the rubber on the bonded shim **NOTE:** In the event that the rubber is damaged from contact with the piston and there are loose rubber parts, it would be advised to fit new brake pads.

5) The next step is to install one shim from the shim kit **36A 698 219** to each rear brake pad, ensuring that when fitted the new shim is seated flat against the brake pad bonded shim

6) Referring to Figure 1 - Apply 6 dots of grease (< 1.0g in total) to the inside face of the clip on shim



Figure 1

- Referring to Figure 2 – Using a suitable spatula spread the grease to an even layer condition



Figure 2

7) Assemble the clip-on shim onto the pad - Squeeze together firmly to remove any excess grease which comes out from between the new shim and the brake pad bonded shim **NOTE:** Ensure the new shim is seated flat against the brake pad bonded shim

- Referring to Figures 3 and 4 Clean the pad abutments & the spring clips, then apply a small dot of grease to them



Figure 3



Figure 4

8) Clean the pad abutment faces on the calliper carrier – scrape off any dirt and brake dust which has accumulated, then use a suitable brake cleaner

9) Wipe the face of the piston to remove any brake dust or dirt.

- Refit the rear brake pads as per Repair manual Rep.Gr 46 - Rear Brake Pads - To Remove and Fit, taking care not to dis-lodge the grease/shims before the pads are in position.
- Test Drive the vehicle and verify if the noise is no longer evident, If new pads have been fitted follow the **Measure** section of the 'Brake Bedding Procedure' TPI 2039982

10) On return from road test, visually check for any excess grease which may have come out from between the two shims and remove with suitable cleaner.

Required Parts and Tools

| Part number | Description | Quantity |
|--------------|------------------------------|-----------------------|
| 36A 698 219 | Shim set for rear brake pads | 1 |
| G 052 560 A2 | Vary Bond grease | 1 = 1 x 100 gram tube |

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Do not order x1 tube of grease for each individual vehicle as the grease must be used on multiple vehicles (minimum of three vehicles per tube)