

Noise Symptom - Noises from Around the Steering Shaft: Replace Intermediate Steering Shaft (SY 17/14)

Modifications Overview:

Release	Date	Modification
0	08/14/2014	First publication
1	06/30/2016	- The "Remedial action" section was changed - the modified procedure must be observed from now on. - Modified intermediate steering shafts are listed in the "Tools and materials" section. As a result, the rework for the bellows is no longer required.
2	08/23/2017	Additional information for affected vehicles after the date of introduction: Also rework with lubricant spray.
3	07/30/2020	- Procedure adapted to remove the noises sustainably; the intermediate steering shaft must be removed in order to carry out the required work. - Detailed description of which areas must be lubricated.
4	06/13/2025	- Order types added - Update to Labor position and PCSS Encryption

Model Line: **Macan (95B)**

Model Year: **As of 2014 up to 2018**

Concerns: **Intermediate steering shaft**

Symptom: Customers complain about disturbing noises coming from the footwell area on the driver side while steering.

Cause: The surface of the foam rubber seal in the sealing sleeves starts to wear and crumble due to high temperatures . This effect causes the reported noise.

Remedial Action: In the event of a customer complaint on a vehicle that:

- was produced** before the date of introduction: Replace the existing intermediate steering shaft with a new, **modified intermediate steering shaft with felt ring**, see Workshop Manual ⇒ *Workshop Manual '482819 Remove and install intermediate steering shaft'*.
- was produced after the date of introduction or** was already replaced by the **new type of intermediate steering shaft** (with felt ring): To remove intermediate steering shaft, see Workshop Manual ⇒ *Workshop Manual '482819 Remove and install intermediate steering shaft'* **and** rework using a temperature-resistant lubricant spray as described in the "Work Procedure" section.

Date of
Introduction:

A modified intermediate steering shaft has been used in production since 2 June 2016.

Parts Info:

Part number:	Designation:	Number:
95B419753D	⇒ Intermediate steering shaft (NEW, with felt ring , LHD, I-no. LOL)	1 piece(s)
95B419753E	⇒ Intermediate steering shaft (NEW, with felt ring , RHD, I-no. LOR)	1 piece(s)
99991782800	⇒ Lubricant spray (Osixio Anti Squeak – Aerosol 32)	Quantity as required.
N 91151101	Hexagon-head bolt (combination), M12 x 1.5 x 42	4 piece(s)
WHT005372	Cheese head bolt with multiple-tooth head, M12 x 1.5 x 51	2 piece(s)
WHT004955A	Hex socket head screw	2 piece(s)

Tools:

- Clean cloth
- Personal protective equipment

Work
Procedure:

Rework intermediate steering shaft



WARNING

Toxic substances

- **Danger of poisoning or suffocation**
- **Danger of burns to the eyes and skin**
- ⇒ **Wear personal protective gear.**
- ⇒ **Ventilate the work area well.**
- ⇒ **Never ingest or inhale.**
- ⇒ **Read specific information on the Hazard Sheet.**
- ⇒ **Do not smoke, eat or drink in the work area.**

- 1 Remove intermediate steering shaft.
⇒ *Workshop Manual '482819 Remove and install intermediate steering shaft'.*

**Information****Lubricating steering shaft seals (inside and outside)**

- The intermediate steering shaft has two blue sealing rings, which must be lubricated separately because the lubricant cannot flow effectively from one sealing ring to the other $\Rightarrow$ Fig. 1. Left - passenger compartment side, right - engine compartment side.
- Lubricate each sealing ring separately and hold the shaft vertically while doing this.
- First lubricate the upper sealing ring, then turn the shaft over and lubricate the lower sealing ring.
- The two rings are visible in the assembly overview shown in Figure 2.
- Both rings are identical. The ring on the passenger compartment side is cut away for clarity. Note the felt insulator in between $\Rightarrow$ Fig. 2.

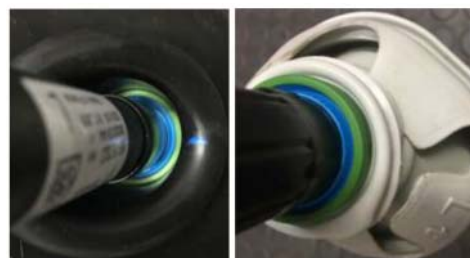


Fig. 1. Left - passenger compartment side, right - engine compartment side



Fig. 2

- 2 Lubricate steering shaft seals.
 - 2.1 Lubricate blue sealing ring, making sure that **both** contact surfaces (to the shaft and to the green sealing ring) are lubricated $\Rightarrow$ Fig. 3.
 - 2.2 Move bulkhead seal up and down to distribute the lubricant.
 - 2.3 Turn the seal around the shaft to distribute the lubricant.

- 2.4 Turn the intermediate steering shaft over and repeat the lubrication process for the other blue sealing ring.

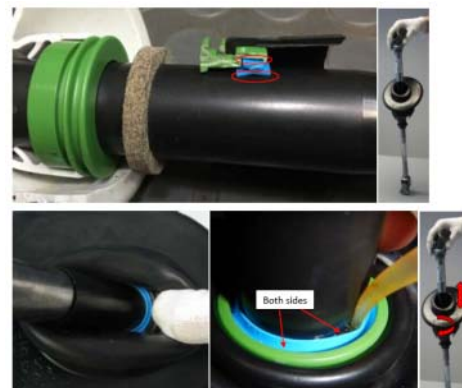


Fig. 3

- 3 Install intermediate steering shaft.
⇒ Workshop Manual '482819 Remove and install intermediate steering shaft'.

Labor position and PCSS encryption

Labor position:

APOS	Labor operation	I No.
48281900	Remove and install bottom joint	
48554940	Rework sealing bellows	

PCSS encryption:

Location (FES5)	48550	Sealing bellows
Damage type (SA4)	2019	squeaking

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