

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

Change overview

Version	Date	Change
0	14.08.2014	First publication
1	30.06.2016	<ul style="list-style-type: none"> 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 subsequent work for the bellows is no longer required.
2	01.08.2017	<ul style="list-style-type: none"> Additional information for affected vehicles after the date of introduction: Also rework with lubricant.
3	03.03.2020	<ul style="list-style-type: none"> 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.

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

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

Subject: **Intermediate steering shaft**

Symptom: Customers complain about disturbing noises coming from the footwell area on the driver's 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 (02 June 2016): Replace the existing intermediate steering shaft with a new, **modified intermediate steering shaft with felt ring**, see Workshop Manual ⇒ *Workshop Manual '482819 Removing and installing intermediate steering shaft'*.
- Was produced after the date of introduction (02 June 2016)** or was already replaced by the **new type of inter-mediate steering shaft** (with felt ring): Remove intermediate steering shaft, see Workshop Manual ⇒ *Workshop Manual '482819 Removing and installing 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 02 June 2016.

Parts Info:	Part No.:	Designation:	Number:
	95B419753D	⇒ Intermediate steering shaft (NEW, with felt ring , LHD, I-no. LOL)	1 ea.
	95B419753E	⇒ Intermediate steering shaft (NEW, with felt ring , RHD, I-no. LOR)	1 ea.
	99991782800	⇒ Lubricant spray (Osixio Anti Squeak – Aerosol 32)	As much as required.
	N 91151101	Hexagon-head bolt (combination), M12 x 1.5 x 42	4 ea.
	WHT005372	Cheese head bolt with multiple-tooth head, M12 x 1.5 x 51	2 ea.
	WHT004955A	Internal hexagon round cheese head bolt	2 ea.

Tools:

- Clean cloth
- Personal protective equipment

Work Procedure: **Reworking intermediate steering shaft**



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, see ⇒ *Workshop Manual '482819 Removing and installing 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 ⇒ *Figure 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 ⇒ *Figure 2.*

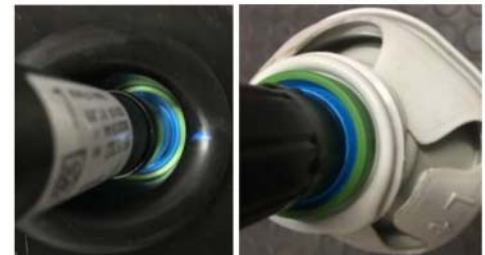


Figure 1. Left - passenger compartment side, right - engine compartment side

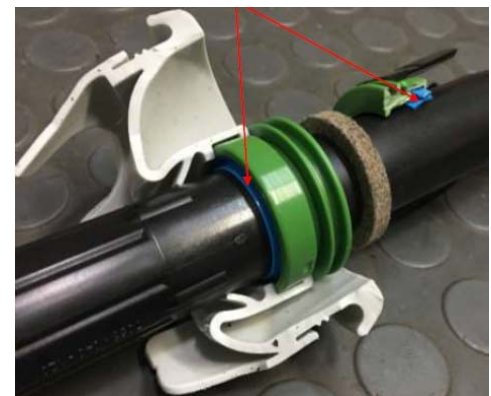


Figure 2

- 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 ⇒ *Figure 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.

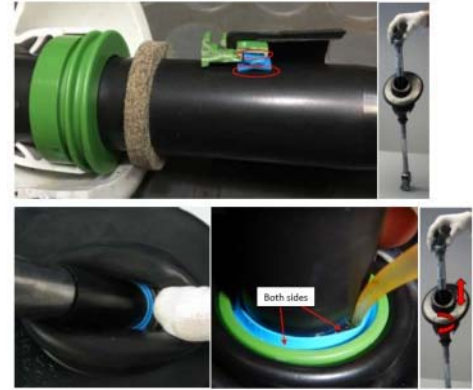


Figure 3

- 3 Install intermediate steering shaft, see ⇒ *Workshop Manual '482819 Removing and installing intermediate steering shaft'*.

Invoicing: The work involved is invoiced under the labor operation:

APOS	Labor operation	I No.
48281900	Removing and installing bottom joint	
48554940	Reworking sealing bellows	

For invoicing and documentation using PQIS, enter the following coding:

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

References: ⇒ *Workshop Manual '482819 Removing and installing intermediate steering shaft'*

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