

Outer Body Symptom – Creaking in Rear End: Loosen and Tighten Rear Axle Housing Screw Connections (SY 45/23)

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

Model Year: **As of 2022 up to 2023**

Concerns: **Rear axle housing**

Symptom: Customers complain about creaking in the rear end.

Cause: After the first kilometers/ miles of driving, tensions can occur in the rear axle housing, which can cause noise.

Remedial Action: In the event of a customer complaint, loosen the rear screws on the rear axle housing and then replace and tighten individually one after the other.



Information

The rear axle housing screws must be replaced after each loosening.

Required parts

Parts Info:	Part No.	Designation – Location	Number
	WHT004756	⇒ Hexagon-head bolt (combi) M12 x 1,5 x 145 x 90 – Rear axle carrier housing screw connection	2 pieces
Additional required parts as needed:			
	WHT002557	⇒ Hexagon collar nut, self-locking M12 x 1.5 – Tie rod on rear axle housing	2 pieces
	WHT002053	⇒ Eccentric screw M12 x 1.5 x 65 – Tie rod on rear axle housing	2 pieces
	PAF911511	⇒ Hexagon-head bolt, M12 x 1.5 x 42 – Front axle carrier screw connection	4 pieces

PAF005372	⇒ Cheese head bolt with multiple-tooth head, M12 x 1.5 x 51 – Front axle carrier screw connection	2 pieces
PAF911561	⇒ Hexagon-head bolt, M12 x 1.5 x 100 – Front axle carrier screw connection	4 pieces
95B615447C	⇒ Left air guide plate – front brake disc	1 piece
95B615448C	⇒ Right air guide plate – front brake disc	1 piece
95B699011C	⇒ Clip – Brake disc air guide plate	2 pieces

Required tools

- Tools:
- Torque wrench, 6 – 50 Nm (4.5 – 37 ftlb.), e.g. **VAG 1331A torque wrench, 6-50 Nm (4.5-37 ftlb.)**
 - Torque wrench, 40 – 200 Nm (30-148 ftlb.) e.g. **V.A.G 1332A - torque wrench, 40-200 Nm (30-148 ftlb.)**
 - **9229/1 - Puller hook**
 - **T40183 - Insertion tool**
 - **VAS 6826 - Steering wheel balance**
 - **VAS 6918 - Quick-clamping unit**
 - **9900 - PIWIS Tester 3/4**
 - Battery charger with a current rating of **at least 90 A, VAS 5908 - battery charger 90A**

Additional required tools for vehicles with front camera (M No. 6I1 and/or M No. 6I3):

- **VAS 6350/2A - Spacing laser**
- **VAS 6350A - Calibration unit**
- **VAS 6430/1A - Adjustment device with reflector**
- **VAS 6430/4 - Lane Keep Assist calibration board**

Additional required tools for vehicles with distance measuring sensor (M No. KA6):

- **VAS 6430/1A - Adjustment device with reflector**
- **VAS 6430/3 - Mirror for adjustment device**

Loosening and tightening rear axle housing screw connections

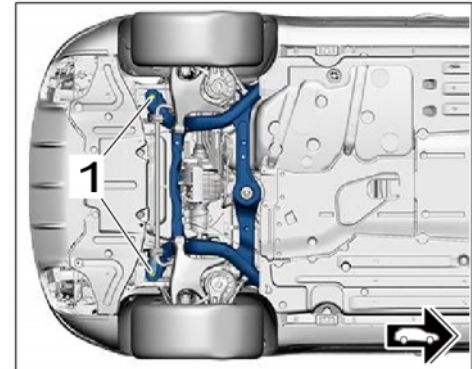
Work Procedure: 1 Raise the vehicle.

⇒ *Workshop Manual '4X00IN Lift vehicle'*

- 2 Loosen and tighten rear axle housing screw connections.
 - 2.1 First loosen both rear screws on the rear axle housing ⇒ *Rear axle carrier housing screw connection -1-*, but do not remove them yet.
 - 2.2 Then replace screws on the rear axle housing ⇒ *Rear axle carrier housing screw connection -1-* **one after the other** with **new** screws and tighten them.

Initial tightening 115 Nm (84.8 ftlb.)

Final tightening +90°



Rear axle carrier housing screw connection

- 3 Lower the vehicle.
 - ⇒ *Workshop Manual '4X00IN Lift vehicle'*
- 4 Perform front and rear suspension and adjust if necessary.
 - ⇒ *Workshop Manual '4X00IN Performing front and rear suspension alignment'*

Labor position and PCSS encryption

Labor position:

APOS	Labor operation	I No.
42054940	Reworking rear axle housing	
42054942	Reworking rear axle housing	
42054944	Reworking rear axle housing	
42054946	Reworking rear axle housing	

PCSS encryption:

Location (FES5)	42050	Rear axle housing
Damage type (SA4)	1715	braced

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