

Service

103/19 ENU 4890

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Noise Symptom - Squeaking While Steering: Checking Installation Position of Dust Boot on Steering System (SY 103/19)

Revision: This bulletin replaces bulletin Group 4 103/19, dated February 25, 2020.

Model Year: As of 2020 up to 2021

Model Line: 911 Carrera (992)

Subject: Power-steering gear

Symptom: A squeaking noise can be heard from the power-steering gear area or from the steering column while

steering.

Cause: The dust boot on the power-steering gear may have been pressed in too far during production and as a

result, it may rub against the power-steering gear housing while steering.

Remedial Action:

In the event of a customer complaint, check the installation position of the dust boot and replace steering

gear if necessary.

Required tools, parts and materials



Information

The new 911 (992) comes with either a **lithium starter battery** (I-no. J2A) **or** an **AGM starter battery** (I-no. J0V, J4K) as standard.

This depends on the following:

- Country version
- Model type
- Vehicle equipment

Lithium starter batteries must only be charged using a **suitable battery charger** that has a current and voltage-controlled charge map.

For further information about the battery chargers to be used, see \Rightarrow Workshop Manual '270689 Charging battery/vehicle electrical system'.

Tools:

- Battery charger with a current rating of at least 90 A and if required also with a current and voltage-controlled charge map for lithium starter batteries, e.g. VAS 5908 Battery charger, 90 A
- 9900 PIWIS Tester 3

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Symptom-based workshop manual

Parts Info: Parts required (if necessary):

Part No.	Designation - Use	Qty.
992423051R	⇒ Steering gear (I no. 0N1, L0L) or	1 ea.
992423051S	⇒ Steering gear (I no. ON5, LOL) or	1 ea.
992423051T	⇒ Steering gear (I no. ON1, LOR) or	1 ea.
992423051AA	⇒ Steering gear (I no. 0N5, L0R) Additional parts required	1 ea.
PAF107738	 ⇒ Hex flange bolt with multiple-tooth head Power-steering gear 	2 ea.
PAF908088	⇒ Hexagon collar nut – Tie-rod ball	2 ea.
WHT004955A	⇒ Internal hexagon round cheese head bolt – Universal Joint	1 ea.
N 91253401	⇒ Hex flange bolt with hexagon socket head– front-axle cross member	6 ea.
N 10714101	⇒ Hexagon flange bolt– front-axle cross member	2 ea.
PAF008741 ¹⁾	⇒ Stud (I no. 1X1)– front-axle cross member	2 ea.
PAF008757	⇒ Hexagon-head bolt– Front-axle cross member	2 ea.
PAF008737	⇒ Stud – front-axle cross member	2 ea.
N 90916701	 ⇒ Hexagon collar nut – Front-axle cross member 	2 ea.
PAF008756 WHT007957	 ⇒ Hexagon flange bolt – front-axle cross member ⇒ Hexagon self clinching put 	2 ea. 2 ea.
WH1007937	⇒ Hexagon self-clinching nut– Anti-roll baror	2 ea.
9A700781900	⇒ Hexagon nut– anti-roll bar (PDCC)	2 ea.
PAF008282	⇒ O-ring - coolant hose	2 ea.
9A700828100	⇒ O-ring – coolant hose	2 ea.
PAF013814	⇒ Sealing ring – drain plug	2 ea.

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1) Only for all-wheel drive (4WD) vehicles

Materials: Required materials (usually already available at the Porsche dealer):

Part No. Designation Qty.
- Use

00004320593 \Rightarrow Lubricating grease 100g/ 3.5 oz tube 1)

- 0-rings

00004330515 \Rightarrow Coolant additive 20-liter/ 5.28 gal

container 3)

Preparatory work

Work Procedure: 1 Turn steering wheel to center position.

2 Remove front-axle support, see ⇒ Workshop Manual '400819 Removing and installing front-axle support'.

Checking dust boot for steering system

Work Procedure: 1 Check whether there is a sufficient gap between the dust boot and housing cover bar.

1.1 If the gap is OK (\Rightarrow Checking dust boot-Dimension A-):

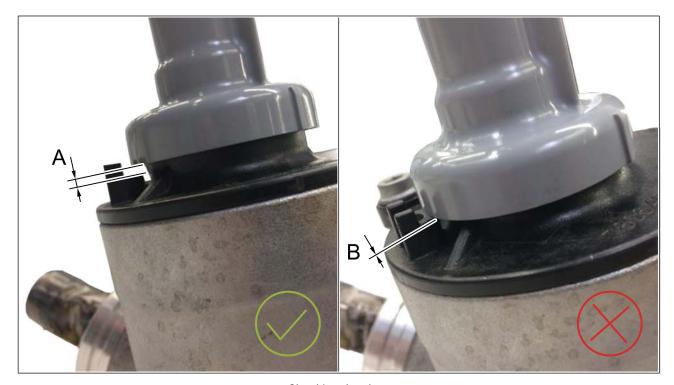
The dust boot is not the cause of the squeaking noise — Install front-axle support, see \Rightarrow Workshop Manual '400819 Removing and installing front-axle support'. Continue with fault finding.

1.2 If the gap is not OK (\Rightarrow Checking dust boot-Dimension B-):

The dust boot is the cause of the squeaking noise — replace power-steering gear, see ⇒ Workshop Manual '489019 Removing and installing power-steering gear'.

¹⁾ approx. 10 grams/0.35 oz required per vehicle.

²⁾ approx. 0.5 liter/ 16.9 fl oz required per vehicle.



Checking dust boot

Dimension A $- \sim 2 \text{ mm}$ **Dimension B** $- \sim 0 \text{ mm}$

Concluding work

Work Procedure: 1 Install front-axle support, see \Rightarrow Workshop Manual '400819 Removing and installing front-axle support'.

- 2 Read out and erase the fault memories of all control units.
 - ⇒ Workshop Manual '9X00IN Basic instructions and procedure for control unit programming using the PIWIS Tester section on "Subsequent work"'

Invoicing

Invoicing:

For documentation and warranty invoicing, enter the labor operations, PQIS coding and part numbers specified below in the warranty claim:

APOS	Labour operation	I No.
48900100	Check power-steering gear	
48905500	Replacing power-steering gear (2WD)	
48905505	Replacing power-steering gear (4WD)	

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PQIS coding:

Location (FES5)	48900	Power-steering gear
Damage type (SA4)	1015	Gap/air gap too large/too small

Parts Info:	Parts required	(if necessary):
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Part No.	Designation - Use	Qty.
992423051R	Steering gear (I no. ON1, LOL) or	1 ea.
992423051S	Steering gear (I no. ON5, LOL) or	1 ea.
992423051T	Steering gear (I no. ON1, LOR) or	1 ea.
992423051AA	Steering gear (I no. ON5, LOR) Additional parts required	1 ea.
PAF107738	Hex flange bolt with multiple-tooth head – Power-steering gear	2 ea.
PAF908088	Hexagon collar nut – Tie-rod ball	2 ea.
WHT004955A	Internal hexagon round cheese head bolt – Universal Joint	1 ea.
N 91253401	Hex flange bolt with hexagon socket head – front-axle cross member	6 ea.
N 10714101	Hexagon flange bolt – front-axle cross member	2 ea.
PAF008741 ¹⁾	Stud (I no. 1X1) – front-axle cross member	2 ea.
PAF008757	Hexagon-head bolt - Front-axle cross member	2 ea.
PAF008737	Stud - front-axle cross member	2 ea.
N 90916701	Hexagon collar nutFront-axle cross member	2 ea.
PAF008756	Hexagon flange bolt	2 ea.
WHT007957	front-axle cross memberHexagon self-clinching nutAnti-roll bar	2 ea.
9A700781900	or Hexagon nut – anti-roll bar (PDCC)	2 ea.

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PAF008282	O-ring	2 ea.
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- coolant hose 9A700828100 O-ring 2 ea.

coolant hose

PAF013814 Sealing ring 2 ea.

- drain plug

00004320593 Lubricating grease approx. 10 grams/

– O-rings 0.35 oz

00004330515 Coolant additive approx. 0.5 liter/

16.9 fl oz

References:

- ⇒ Workshop Manual '400819 Removing and installing front-axle support'
- ⇒ Workshop Manual '9X00IN Basic instructions and procedure for control unit programming using the PIWIS Tester'

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¹⁾ Only for all-wheel drive (4WD) vehicles