

WKH3 - Replacing Drive Shafts on the Front Axle (Workshop Campaign)

Model line: **911 (992)**

Model Year: **2020**

Equipment: **All-wheel drive**

Subject: **Drive shafts on the front axle**

Information: **There is a possibility that the drive shafts on the front axle of the affected vehicles can loosen at the joint when driving due to a temporary installation problem.**

If this is the case, there will be noises on the front axle and limited driving force on the relevant wheel.

Remedial Action: Replace drive shaft at left and right on the front axle.

Affected Vehicles: Only vehicles assigned to the campaign (see also PCSS Vehicle Information). This campaign affects 45 vehicles in North America.

Required parts and materials

Parts Info:

Part No.	Designation - Use	Qty.
00004330458	⇒ Drive shaft - Front axle	2 ea.
9P1407306	⇒ Plate - Drive shaft, inner side	6 ea.
PAF107190	⇒ Collared cheese head bolt, M8 x 45 - Drive shaft to all-wheel final drive	12 ea.
WHT007021	⇒ Hexagon nut, M22 x 1.5 - Drive shaft to wheel carrier	2 ea.
9P1407483	⇒ Protective ring - Drive shaft to wheel carrier	2 ea.

PAF008660	⇒ Hexagon nut, M10 – Front final drive bracket (2) – Transmission bracket (4)	6 ea.
N 10629602	⇒ Hex flange bolt, M10 x 35 – Rear final drive bracket	4 ea.
PAF009267	⇒ Hexagon-head bolt, M10 x 40 – Transmission bracket	4 ea.
PAF911439	⇒ Cheese head bolt, M8 x 16 – Cardan flange	4 ea.
992521225	⇒ Gaiter – Cardan shaft	1 ea.

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

Part No.	Designation – Use	Qty.
00004330508	⇒ Mounting paste, 100 g tube – Drive shaft splines	As much as required (approx. 10 grams required per vehicle)

Required tools

- Tools:
- **VAG 1332A** Torque/torque angle wrench, 20-400 Nm (15-296 ftlb.)
 - **9768** - Electronic torque wrench, 2 - 100 Nm (1.5 - 74 ftlb.)
 - **VAS 6926** Puller set for 5-lug wheels and **9794** for center lock-nut wheels
 - **Nr.192** - Hose clamping pliers or equivalent
 - **Transmission and Engine Jack**
 - **9454** - Strapping belt

Replacing drive shafts on the front axle

- Work Procedure: 1 Remove the wheels on the front axle. For instructions, see ⇒ *Workshop Manual '440519 Removing and installing wheel'*.
- 2 Remove the all-wheel final drive ⇒ *Workshop Manual '398819 Removing and installing all-wheel final drive'*.
- 3 Remove the front drive shafts ⇒ *Workshop Manual '404119 Removing and installing front drive shaft'*.
- 4 Install the all-wheel final drive ⇒ *Workshop Manual '398819 Removing and installing all-wheel final drive'*.

- 5 Install wheels on the front axle. For instructions, see ⇒ *Workshop Manual '440519 Removing and installing wheel'*.
- 6 Enter the campaign in the Warranty and Maintenance booklet.

Warranty processing

- Scope 1: • **Only valid for 911 Carrera 4 Coupé**

Working time:		
Replacing drive shafts on the front axle		Labor time: 491 TU
Includes:	Removing and installing front wheels	
	Removing and installing all-wheel final drive	
 Parts required:		
00004330458	Drive shaft	2 ea.
9P1407306	Plate	6 ea.
PAF107190	Collared cheese head bolt, M8 x 45	12 ea.
WHT007021	Hexagon nut, M22 x 1.5	2 ea.
9P1407483	Protective ring	2 ea.
PAF008660	Hexagon nut, M10	6 ea.
N 10629602	Hex flange bolt, M10 x 35	4 ea.
PAF009267	Hexagon-head bolt, M10 x 40	4 ea.
PAF911439	Cheese head bolt, M8 x 16	4 ea.
992521225	Gaiter	1 ea.
 Materials required:		
00004330508	Mounting paste (100 g tube)	0.1 ea. (= approx. 10 g)
 ⇒ Damage Code WKH3 066 000 2		

- Scope 2: • **Only valid for 911 Carrera 4 Cabriolet**

Working time:		
Replacing drive shafts on the front axle		Labor time: 546 TU
Includes:	Removing and installing front wheels	
	Removing and installing all-wheel final drive	

Parts required:

00004330458	Drive shaft	2 ea.
9P1407306	Plate	6 ea.
PAF107190	Collared cheese head bolt, M8 x 45	12 ea.
WHT007021	Hexagon nut, M22 x 1.5	2 ea.
9P1407483	Protective ring	2 ea.
PAF008660	Hexagon nut, M10	6 ea.
N 10629602	Hex flange bolt, M10 x 35	4 ea.
PAF009267	Hexagon-head bolt, M10 x 40	4 ea.
PAF911439	Cheese head bolt, M8 x 16	4 ea.
992521225	Gaiter	1 ea.

Materials required:

00004330508	Mounting paste (100 g tube)	0.1 ea. (= approx. 10 g)
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⇒ Damage Code WKH3 066 000 2

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