WLA8 - Checking Connecting Shaft for Front-Wheel Drive and Replacing it if Necessary (Workshop Campaign)

Revision: This bulletin replaces bulletin Group 3 12–20 WLA8 for Panamera 4S Diesel (971) / Panamera 4S Diesel Sport Turismo (971), dated September 17, 2020.

Vehicle Type: **Panamera 4S Diesel (971) / Panamera 4S Diesel Sport Turismo (971)**

Model Year: **As of 2017 up to 2018**

Equipment: All-wheel drive

Subject: **Connecting shaft for front-axle final drive**

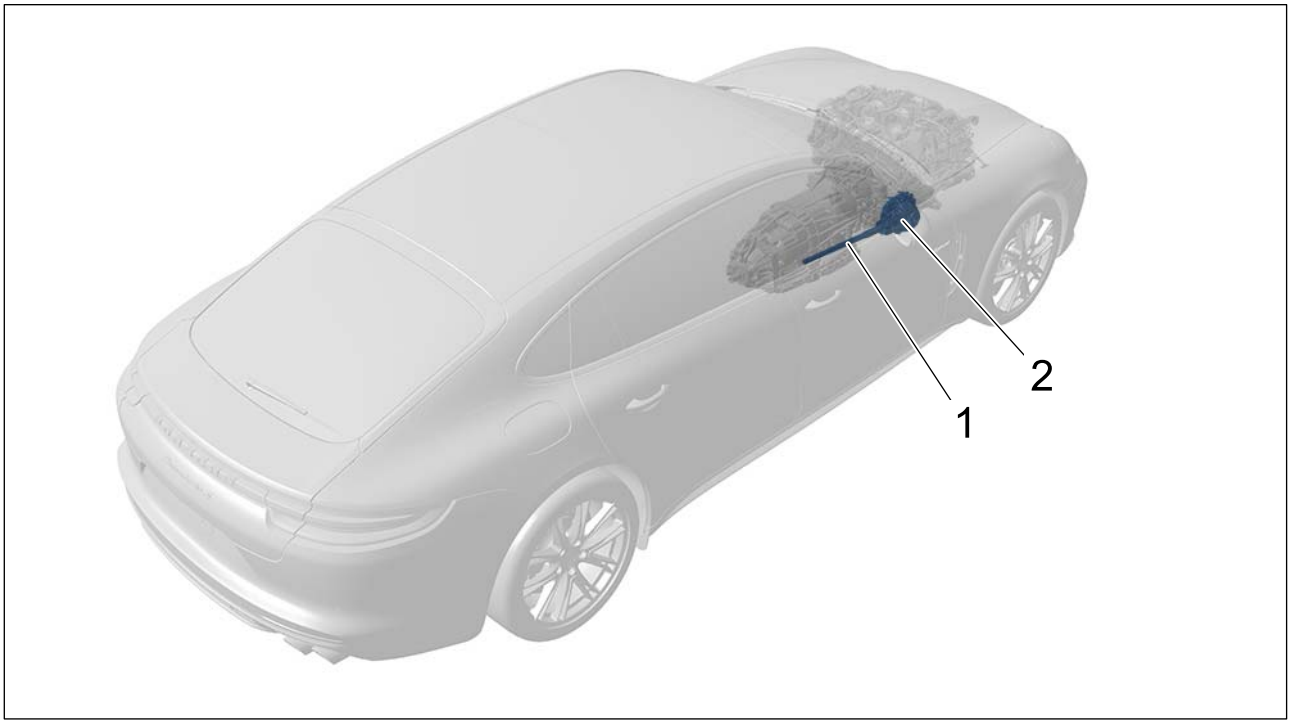
Information: **There is a possibility that the splines of the connecting shaft for the front-axle final drive were not greased according to specifications on the affected vehicles.**

If this is the case, the area on and around the splines can become corroded over the service life of the vehicle and as a result, the splines will wear. The customer may hear noises.

Remedial Action:
- Checking connecting shaft for front-axle final drive
- Replacing the connecting shaft and front-axle final drive if necessary, depending on the result of the check

Affected Vehicles: Only vehicles assigned to the campaign (see also PCSS Vehicle Information). There are 2,153 vehicles affected by this campaign.

Installation Position:



Overview of installation position

1 – Connecting shaft (**check and replace if necessary**)
2 – Front-axle final drive (**replace if necessary**)

Parts required

Parts Info: **No parts are required** for **checking** the connecting shaft for the front-axle final drive.

Parts required for **replacing** the connecting shaft for the front-axle final drive, **depending on the result of the check**:

Part No.	Designation – Use	Qty.
9A730720300	⇒ Connecting shaft – Front-wheel drive	1 ea.
9A7409505KX	⇒ Front-axle final drive – Front-wheel drive	1 ea.
N 0123741	⇒ Circlip – Front-axle final drive	1 ea.

WHT005157	⇒ O-ring – Front-axle final drive	1 ea.
9A740763500	⇒ Circlip – Left and right drive shaft	2 ea.
298407475	⇒ Protective ring – Left and right drive shaft	2 ea.
971407297	⇒ Circlip – Left drive shaft	1 ea.
N 91244301	⇒ Hexagon flange bolt, M12 x 1.5 x 90 – Front-axle carrier to body front – Strut to body	8 ea.
N 10714101	⇒ Hexagon flange bolt, M10 x 25 – Strut to body	2 ea.
WHT004955A	⇒ Hexagon flange bolt, M8 x 30 – Steering column center to power-steering gear	1 ea.
PAF911489	⇒ Hexagon flange bolt, M12 x 1.5 x 60 – Engine mount to front-axle carrier	2 ea.
N 90990102	⇒ Cheese head bolt, M8 x 35 – Engine to engine carrier	5 ea.
N 91021403	⇒ Cheese head bolt, M10 x 35 – Engine to engine carrier	1 ea.
N 10687201	⇒ Cheese head bolt, M10 x 45 – Engine to engine carrier	3 ea.
N 10664503	⇒ Hexagon flange bolt, M8 x 45 – Side A-strut to body	2 ea.
N 10628301	⇒ Hexagon flange bolt, M12 x 1.5 x 90 – Spring strut to trailing arm	2 ea.
PAF104029	⇒ Hexagon collar nut, M12 x 1.5 – Spring strut to trailing arm	2 ea.
N 10261311	⇒ Hexagon nut, M10 – Spring strut to body	6 ea.
N 10272302	⇒ Hexagon nut, M10 – Connecting link to wheel bearing housing	2 ea.
WHT005819	⇒ Hexagon collar nut, M12 x 1.5 – Upper trailing arm to wheel bearing housing	2 ea.
WHT005633	⇒ Double-hex collar nut, M14 x 1.5 – Lower trailing arm to wheel bearing housing	2 ea.

9A700499500	⇒ Hexagon nut, M12 x 1.5 – Tie-rod ball to wheel bearing housing	2 ea.
N 90666003	⇒ O-ring, 11 x 3 – ATF line	2 ea.
WHT008539	⇒ Hexagon flange bolt, M10 x 80 – Dome strut to body	2 ea.
N 90440003	⇒ Hexagon-head bolt, M8 x 35 – A-strut to body	2 ea.
N 10082913	⇒ Internal hexagon round-head bolt, M6 x 16 – Cover plate to wheel bearing housing	10 ea.
N 10456004	⇒ Internal hexagon round-head bolt, M6 x 12 – Brake disc to wheel hub	4 ea.

Additional parts required for vehicles with **18" disc brakes (I-no. 1LN, 1ZT, 1LD, 1LU)**:

WHT004571	⇒ Collared cheese head bolt, M14 x 1.5 x 115 – 18" brake calliper	4 ea.
9A769826900	⇒ Retainer spring for brake pad – Brake calliper	2 ea.

or

Additional parts required for vehicles with **PCCB disc brakes (I-no. 1LV, 1ZQ)**:

WHT004572	⇒ Collared cheese head bolt, M14 x 1.5 x 135 – PCCB brake calliper	4 ea.
971698231A	⇒ Retainer spring for brake pad – PCCB brake calliper	2 ea.

Additional parts required for vehicles **without** PDCC:

N 10793603	⇒ Hexagon flange bolt, M12 x 1.5 x 60 – Anti-roll bar to connecting link (conventional)	2 ea.
N 0150818	⇒ Hexagon collar nut, M12 x 1.5 – Anti-roll bar to connecting link (conventional)	2 ea.

or

Additional parts required for vehicles with **PDCC (I-no. 1P7)**:

N 10702302	⇒ Hexagon flange bolt, M12 x 1.5 x 50 – Anti-roll bar to connecting link (PDCC)	2 ea.

Materials: **No materials are required** for **checking** the connecting shaft for the front-axle final drive.

Materials required for **replacing** the connecting shaft for the front-axle final drive, **depending on the result of the check** (usually already available at the Porsche dealer):

Part No.	Designation – Use	Qty.
00004330586	⇒ Anti Seize AS040P mounting paste, 10 g/ 3.5 oz applicator gun – Connecting shaft splines	1 ea.
00004330534	⇒ Transmission oil, 1-liter/ 33.8 fl. oz. container – Front-axle final drive	As much as required (approx. 0.5 liter/ 16.9 fl. oz. required per vehicle)
00004321044	⇒ Pentosin FFL-8, 1-liter/ 33.8 fl. oz. container – ATF for transmission	As much as required (approx. 0.2 liter/ 6.7 fl. oz. required per vehicle)
00004330516	⇒ Coolant additive, 20-liter/ 676.3 fl. oz. container – Cooling system	As much as required (approx. 2 liter/ / 67.6 fl. oz required per vehicle)
00004330508	⇒ Mounting paste, 100 g/ 3.5 oz. tube – Inner drive shaft splines	As much as required (approx. 10 grams/ 0.35 oz. required per vehicle)

Required tools

Tools: Tools required for **checking the connecting shaft**:

- Torque screwdriver, 1.5-3 Nm (1-2 ftlb.), e.g. **VAS 6494 Torque screwdriver, 1.5-3.0 Nm (1-2 ftlb.)**
- Hand lamp or pocket lamp

Additional tools required for **replacing** the connecting shaft:

- Torque wrench, 2-10 Nm (1.5-7.5 ftlb.), e.g. **VAG 1783 Torque wrench, 2-10 Nm (1.5-7.5 ftlb.)**
- Torque wrench, 6-50 Nm (4.5-37 ftlb.), e.g. **VAG 1331A Torque wrench, 6-50 Nm (4.5-37 ftlb.)**
- Torque wrench, 20-100 Nm (15-74 ftlb.), e.g. **VAS 5820 Torque wrench, 20-100 Nm (15-74 ftlb.) or equivalent**
- Torque/torque angle wrench, 20-400 Nm (15-296 ftlb.), e.g. **VAS 6942 Digital torque wrench, 20-40 0 Nm (15-296 ftlb.) or equivalent**
- Torque wrench, 40-200 Nm (30-148 ftlb.), e.g. **VAG 1332 Torque wrench, 40-200 Nm (30-148 ftlb.)**
- **VAS 6832 Master Gear unit elevating platform**

- **VAS 6832/7 Assembly fixture - Panamera G2**
- **T40093/50 - Base**
- **T40093/3P - Support**
- **T40091/50-51 - Support**
- **T40091/1 - Pipe**
- **T40091/3 - Joiner**
- **10-222A/2 - Additional hook**
- **3033 - Lifting tackle**
- **T10439 - Assembly pin**
- **9472 - Brake piston resetting fixture**
- **9229/1 - Puller hook**
- **Puller set**
- **T10187 - Press-out tool**
- **VW552 - Spring compressor or equivalent**
- **VAS 6931 Transmission and Engine Jack**
- **9799 - Impact puller**
- **T40178B - Oil gauge tester**
- **VAS 6262A Adapter for Oil Filling**
- **VAS 6262/2 Adapter for Filling ATF Oil**
- **VAS 741 039 Manoeuvring aid set**
- **9825/3 - Adapter**
- **9825/1 - Connecting line**
- **VAS 6629A Nitrogen Filler Set for Air-Spring Struts**
- **9900 - PIWIS Tester 3**
- **VAS 5908 Battery Charger, 90 A**
- **VAS 6826 Steering wheel balance**
- **VAS 6918 Quick-Clamping Unit**
- **T10188 - Open-end spanner insert**
- **VAS 6883 Insulated Tool Set**
- **VAS 6563 Manual metering pumps, Porsche set or equivalent**
- **VAS 6096/2 Vacuum pump**
- **9696 - Filling device**
- **VAG 1274B Tester for Cooling System**
- **VAS 6562 Porsche Adapter Set for Cooling System Tester**
- **VAS 6890 Spring Band Clamp Pliers or equivalent**

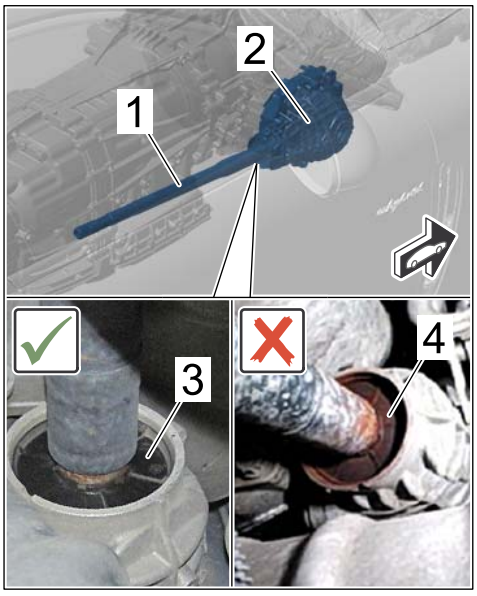
Checking connecting shaft for front-axle final drive

Work Procedure: 1 Raise the vehicle using a lifting platform ⇒ *Workshop Manual '4X00IN Lifting the vehicle'*.

2 Remove front underbody cover ⇒ *Workshop Manual '519219 Removing and installing cover for front underbody'*.

3 Remove center underbody cover ⇒ *Workshop Manual '519319 Removing and installing cover for centre underbody'*.

4 **Visually inspect the connecting shaft** on and around the splines for the front-axle final drive to see whether **there is any corrosion residue**.



Dust boot and connecting shaft for front-axle final drive

Information

Limescale deposits or dirt that gets into the intermediate shaft area as a result of driving the vehicle **are not a defect**. The intermediate shaft and front-axle final drive must only be replaced if there are **obvious signs** of corrosion (red rust).

- There is **no corrosion dust** on the dust boot on the front-axle final drive to the connecting shaft: The connecting shaft for the front-axle final drive is greased according to specifications and **does not have to be replaced**. Continue with **Step 5**.
- If **there is corrosion dust** on the **dust boot** on the front-axle final drive, the connecting shaft was not greased according to specifications. The **connecting shaft** and the **front-axle final drive** must be **replaced**. To do this, continue with ⇒ *Technical Information '519319 Replacing connecting shaft and front-axle final drive'*.

5 Install center underbody cover ⇒ *Workshop Manual '519319 Removing and installing cover for centre underbody'*.

6 Install front underbody cover ⇒ *Workshop Manual '519219 Removing and installing cover for front underbody'*.

7 Lower the vehicle and remove it from the lifting platform.

8 Enter the campaign in the Warranty and Maintenance booklet.

– End of action required –

For warranty processing, see **Scope 1** under ⇒ *Technical Information '519219 Warranty processing'*.

Replacing connecting shaft and front-axle final drive

Work Procedure:

Information

Digital photos of the relevant connecting shafts and the relevant front-axle final drive are required for analysing the damage and for vehicle differentiation. Please add these photos to the relevant warranty claim/ PCSS job line.

1 Document the damage on the connecting shaft and front-axle final drive **while they are installed** on the respective vehicle.
To do this, take digital photos that clearly show the signs of corrosion.
Also take digital photos of the connecting shaft and front-axle final drive after removing them (see Step 11).

2 **Only for vehicles with PDCC:** Disconnect 48 V system ⇒ *Workshop Manual '270703 Disconnecting and starting 48 V system'*.

3 Disconnect ground strap on the battery.
For instructions, see ⇒ *Workshop Manual '270619 Removing and installing battery'*.

4 Drain coolant ⇒ *Workshop Manual '193817 Draining and filling coolant (includes bleeding)'*.

5 Remove front wheels ⇒ *Workshop Manual '440519 Removing and installing wheel'*.

6 Remove front wheel housing liners on both sides of the vehicle ⇒ *Workshop Manual '505619 Removing and installing front wheel housing liner'*.

7 Remove front-axle support ⇒ *Workshop Manual '400819 Removing and installing front-axle support'*.

8 Remove spring struts with front drive shafts ⇒ *Workshop Manual '404119 Removing and installing front drive shaft'*.

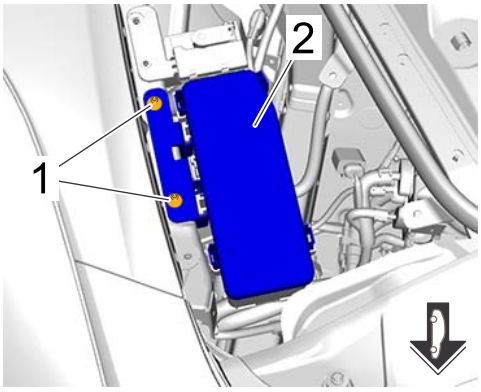
9 Support the engine on the body.

9.1 Remove engine cover ⇒ *Workshop Manual '108319 Removing and installing engine cover (design cover)'*.

9.2 Remove front trim panel at the left and right ⇒ *Workshop Manual '700219 Removing and installing front trim panel (engine compartment)'*.

9.3 If installed: Remove torque support ⇒ *Workshop Manual '103719 Removing and installing torque support'*.

9.4 Loosen fuse box in the engine compartment. To do this, unscrew the screws ⇒*Fuse box in engine compartment* **-1-** and move the fuse box ⇒*Fuse box in engine compartment* **-2-** aside.



Fuse box in engine compartment

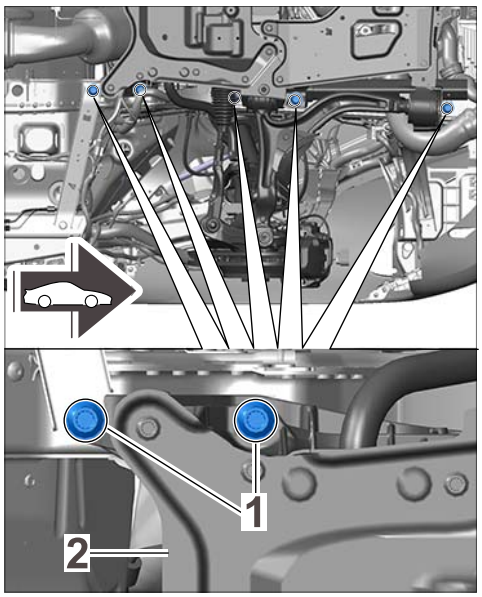
9.5 Loosen moulded hoses at the bottom of the charge-air coolers on both sides of the vehicle.
For instructions, see ⇒*Workshop Manual '214319 Removing and installing charge-air cooler'*.

Information
Further work may be required, depending on the engine type of the respective vehicle.

9.6 Support the engine on the body ⇒*Workshop Manual '1001IN Supporting engine on the body (engine safety device)'*.

Information
The camber on the front axle cannot be adjusted, but must be centered evenly within the tolerance range by moving the front-axle carrier.
The bores in the front-axle carrier for the fastening screws are designed as slots for this purpose.

To minimize the work involved in subsequently performing suspension alignment and adjusting the vehicle, mark the **position of the fastening screws** ⇒*Marking fastening screws on front-axle carrier* **-2-** in relation to the front-axle carrier ⇒*Marking fastening screws on front-axle carrier* **-1- before loosening them** using a suitable **pen or marker**.



Marking fastening screws on front-axle carrier

10 Remove front-axle carrier ⇒*Workshop Manual '400619 Removing and installing front-axle carrier'*.

Information
Digital photos of the relevant connecting shafts and the relevant front-axle final drive are required for analysing the damage and for vehicle differentiation. Please add these photos to the relevant warranty claim/ PCSS job line.

11 Document the damage on the connecting shaft and front-axle final drive **after removing them**. To do this, take digital photos that clearly show the signs of corrosion on the respective components.

12 Remove front-axle final drive and connecting shaft ⇒ *Workshop Manual '398819 Removing and installing all-wheel final drive'*.

13 Install new front-axle final drive and connecting shaft.
Make sure to grease the splines of the connecting shaft for the front-axle final drive with Weicon Anti Seize AS040P mounting paste (Part No. 00004330586).

For instructions, see ⇒ *Workshop Manual '398819 Removing and installing all-wheel final drive'*.

Information
First secure the front-axle carrier **to the body using the old fastening screws** and after you have performed suspension alignment and adjusted the vehicle, **replace all the relevant fastening screws one after the other** with **new screws**.

14 Install front-axle carrier ⇒ *Workshop Manual '400619 Removing and installing front-axle carrier'*.

15 Remove engine support.

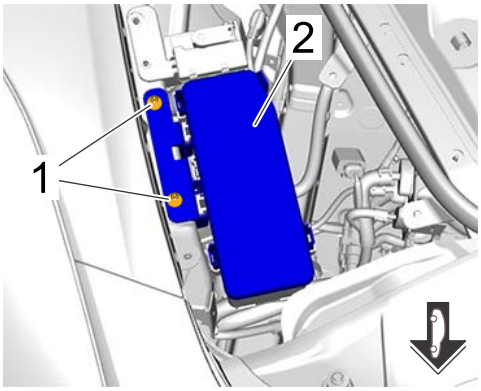
15.1 Remove support ⇒ *Workshop Manual '1001IN Supporting engine on the body (engine safety device)'*.

15.2 Secure moulded hoses at the bottom of the charge-air coolers on both sides of the vehicle. For instructions, see ⇒ *Workshop Manual '214319 Removing and installing charge-air cooler'*.

15.3 Secure fuse box in the engine compartment. To do this, move the fuse box ⇒ *Fuse box in engine compartment* **-2-** back to its original position and tighten the screws ⇒ *Fuse box in engine compartment* **-1-**.

15.4 If installed: Install torque support ⇒ *Workshop Manual '103719 Removing and installing torque support'*.

15.5 Install front trim panel at the left and right ⇒ *Workshop Manual '700219 Removing and installing front trim panel (engine compartment)'*.



Fuse box in engine compartment

15.6 Install engine cover ⇒ *Workshop Manual '108319 Removing and installing engine cover (design cover)'*.

Information
Further work may be required, depending on the engine type of the respective vehicle.

16 Install spring struts with front drive shafts ⇒ *Workshop Manual '404119 Removing and installing front drive shaft'*.

17 Check the oil level in the front-axle final drive and top it up ⇒ *Workshop Manual '399035 Checking and topping up oil for all-wheel final drive'*.

18 Install front-axle support ⇒ *Workshop Manual '400819 Removing and installing front-axle support'*.

19 Install front wheel housing liners on both sides of the vehicle ⇒ *Workshop Manual '505619 Removing and installing front wheel housing liner'*.

20 Install front wheels ⇒ *Workshop Manual '440519 Removing and installing wheel'*.

21 Fill and bleed the cooling system ⇒ *Workshop Manual '193817 Draining and filling coolant (includes bleeding)'*.

22 Connect battery ground strap.
For instructions, see ⇒ *Workshop Manual '2X00IN Work instructions after disconnecting the battery'*.

23 **Only for vehicles with PDCC:** Start 48 V vehicle electrical system ⇒ *Workshop Manual '270703 Disconnecting and starting 48 V system'*.

24 Check and top up ATF ⇒ *Workshop Manual '370235 Checking and topping up ATF'*.

25 Lower the vehicle and remove it from the lifting platform ⇒ *Workshop Manual '4X00IN Lifting the vehicle'*.

26 Perform suspension alignment and adjust the vehicle ⇒ *Workshop Manual '449503 Suspension alignment complete'*.

27 **Unscrew previously re-used fastening screws** on the front-axle carrier **individually** and **one after the other** and replace them with **new fastening screws**.

28 Enter the campaign in the Warranty and Maintenance booklet.

– End of action required –.

For warranty processing, see **Scopes 5 – 6** under ⇒ *Technical Information '449503 Warranty processing'*.

Warranty processing

Scope 1: **Checking connecting shaft for front-axle final drive** – **No parts** have to be replaced.

Relevant for **all vehicles**.

Working time:

Checking connecting shaft for front-axle final drive — Labor time: **69 TU**

Includes: Removing and installing cover for front underbody
Removing and installing cover for center underbody

⇒ **Damage Code WLA8 066 000 1**

Scope 2- 4: **Not relevant** for this **vehicle type**.

Scope 5: **Checking connecting shaft for front-axle final drive – Replacing connecting shaft and front-axle final drive**

Only relevant for vehicles **without** PDCC.

Working time:

Checking connecting shaft for front-axle final drive – Replacing connecting shaft and front-axle final drive — Labor time: **1099 TU**

Includes: Supporting engine on the body and securing engine
Disconnecting and connecting the battery
Removing and installing wheel
Removing and installing front wheel housing liners at the left and right
Removing and installing front-axle support
Removing and installing spring struts with front drive shafts
Draining and filling coolant (includes bleeding)
Removing and installing front-axle carrier
Removing and installing all-wheel final drive
Checking oil level in front-axle final drive and topping up oil
Checking and topping up ATF
Performing suspension alignment and adjusting the vehicle
Calibrating assistance systems

Parts required:

9A730720300	Connecting shaft	1 ea.
9A7409505KX	Front-axle final drive	1 ea.
N 0123741	Circlip	1 ea.
WHT005157	O-ring	1 ea.
9A740763500	Circlip	2 ea.
298407475	Protective ring	2 ea.

971407297	Circlip, 23.5 x 1.6	1 ea.
N 91244301	Hex flange bolt, M12 x 1.5 x 90	8 ea.
N 10714101	Hexagon flange bolt, M10 x 25	2 ea.
WHT004955A	Hex flange bolt, M8 x 30	1 ea.
PAF911489	Hex flange bolt, M12 x 1.5 x 60	2 ea.
N 90990102	Cheese head bolt, M10 x 70	5 ea.
N 91021403	Cheese head bolt, M10 x 35	1 ea.
N 10687201	Cheese head bolt, M10 x 45	3 ea.
N 10664503	Hex flange bolt, M8 x 45	2 ea.
N 10628301	Hex flange bolt, M12 x 1.5 x 90	2 ea.
PAF104029	Hexagon collar nut, M12 x 1.5	2 ea.
N 10261311	Hexagon nut, M10	6 ea.
N 10272302	Hexagon nut, M10	2 ea.
WHT005819	Hexagon collar nut, M12 x 1.5	2 ea.
WHT005633	Double-hex collar nut, M14 x 1.5	2 ea.
9A700499500	Hexagon nut, M12 x 1.5	2 ea.
N 90666003	O-ring, 11 x 3	2 ea.
WHT008539	Hex flange bolt, M10 x 80	2 ea.
N 90440003	Hexagon-head bolt, M8 x 35	2 ea.
N 10082913	Internal hexagon round-head bolt, M6 x 16	10 ea.
N 10456004	Internal hexagon round-head bolt, M6 x 12	4 ea.
N 10793603	Hex flange bolt, M12 x 1.5 x 60	2 ea.
N 0150818	Hexagon collar nut, M12 x 1.5	2 ea.
Additional parts required for vehicles with **18" disc brakes**		
WHT004571	Collared cheese head bolt, M14 x 1.5 x 115	4 ea.
9A769826900	Retainer spring for brake pad	2 ea.
or		
Additional parts required for vehicles with **PCCB disc brakes**		
WHT004572	Collared cheese head bolt, M14 x 1.5 x 135	4 ea.

971698231A	Retainer spring for brake pad - PCCB	2 ea.

Materials required:

00004330586	Anti Seize AS 040P mounting paste, 10 g/ 3.5 oz applicator gun	1 ea.
00004330534	Transmission oil, 1-liter/ 33.8 fl. oz. container	0.5 ea. (= approx. 0.5 liter/ 16.9 fl. oz.)
00004321044	Pentosin FFL-8, 1-liter/ 33.8 fl. oz. container	0.2 ea. (= approx. 0.2 liter/ 6.7 fl. oz.)
00004330508	Mounting paste for drive shaft, 100 g/ 3.5 oz tube	0.1 ea. (= approx. 10 g/ 0.35 oz.)
00004330516	Coolant additive, 20-liter/ 676.3 fl. oz. container	0.1 ea. (= approx. 2 liter/ 67.6 fl. oz.)

⇒ **Damage Code WLA8 066 000 2**

Scope 6: **Checking connecting shaft for front-axle final drive – Replacing connecting shaft and front-axle final drive**

Only relevant for vehicles **with PDCC (I-no. 1P7)**.

Working time:

Checking connecting shaft for front-axle final drive – Replacing connecting shaft and front-axle final drive — Labor time: **1125 TU**

Includes:
- Supporting engine on the body
- Isolating high-voltage system from power supply/Starting high-voltage system
- Disconnecting and connecting the battery
- Removing and installing wheel
- Removing and installing front wheel housing liners at the left and right
- Removing and installing front-axle support
- Removing and installing spring struts with front drive shafts
- Draining and filling the coolant system (includes bleeding)
- Removing and installing front-axle carrier
- Removing and installing all-wheel final drive
- Checking oil level in front-axle final drive and topping up oil
- Checking and topping up ATF
- Performing suspension alignment and adjusting the vehicle
- Calibrating assistance systems

Parts required:

9A730720300	Connecting shaft	1 ea.
9A7409505KX	Front-axle final drive	1 ea.
N 0123741	Circlip	1 ea.
WHT005157	O-ring	1 ea.
9A740763500	Circlip	2 ea.
298407475	Protective ring	2 ea.
971407297	Circlip, 23.5 x 1.6	1 ea.
N 91244301	Hex flange bolt, M12 x 1.5 x 90	8 ea.
N 10714101	Hexagon flange bolt, M10 x 25	2 ea.
WHT004955A	Hex flange bolt, M8 x 30	1 ea.
PAF911489	Hex flange bolt, M12 x 1.5 x 60	2 ea.
N 90990102	Cheese head bolt, M10 x 70	5 ea.
N 91021403	Cheese head bolt, M10 x 35	1 ea.
N 10687201	Cheese head bolt, M10 x 45	3 ea.
N 10664503	Hex flange bolt, M8 x 45	2 ea.
N 10628301	Hex flange bolt, M12 x 1.5 x 90	2 ea.
PAF104029	Hexagon collar nut, M12 x 1.5	2 ea.
N 10261311	Hexagon nut, M10	6 ea.
N 10272302	Hexagon nut, M10	2 ea.
WHT005819	Hexagon collar nut, M12 x 1.5	2 ea.
WHT005633	Double-hex collar nut, M14 x 1.5	2 ea.
9A700499500	Hexagon nut, M12 x 1.5	2 ea.
N 90666003	O-ring, 11 x 3	2 ea.
WHT008539	Hex flange bolt, M10 x 80	2 ea.
N 90440003	Hexagon-head bolt, M8 x 35	2 ea.
N 10082913	Internal hexagon round-head bolt, M6 x 16	10 ea.
N 10456004	Internal hexagon round-head bolt, M6 x 12	4 ea.
N 10702302	Hexagon flange bolt, M12 x 1.5 x 50	2 ea.

Additional parts required for vehicles with **18" disc brakes**

WHT004571	Collared cheese head bolt, M14 x 1.5 x 115	4 ea.
9A769826900	Retainer spring for brake pad	4 ea.

or

Additional parts required for vehicles with **PCCB disc brakes**

WHT004572	Collared cheese head bolt, M14 x 1.5 x 135	4 ea.
971698231A	Retainer spring for brake pad - PCCB	2 ea.

Materials required:

00004330586	Anti Seize AS 040P mounting paste, 10 g/ 3.5 oz applicator gun	1 ea.
00004330534	Transmission oil, 1-liter/ 33.8 fl. oz. container	0.5 ea. (= approx. 0.5 liter/ 16.9 fl. oz.)
00004321044	Pentosin FFL-8, 1-liter/ 33.8 fl. oz. container	0.2 ea. (= approx. 0.2 liter/ 6.7 fl. oz.)
00004330508	Mounting paste for drive shaft, 100 g/ 3.5 oz tube	0.1 ea. (= approx. 10 g/ 0.35 oz.)
00004330516	Coolant additive, 20-liter/ 676.3 fl. oz. container	0.1 ea. (= approx. 2 liter/ 67.6 fl. oz.)

⇒ **Damage Code WLA8 066 000 2**