

AMB2 – Replacing Lower Trailing Arm on Front Axle (Stop Delivery/Recall Campaign)

Revision: This bulletin replaces bulletin Group 4 84/21 AMB2 (Y1A), dated June 22, 2021.

Model Year: **2021**

Vehicle Type: **Taycan (Y1A)**

Concerns: **Trailing arm on front axle, lower right**

Information: **There is a possibility that trailing arms that do not meet the required specifications were installed on the lower right of the front axle on the affected vehicles.**

If this is the case, there is a possibility that the lower trailing arm can break. As a result, we cannot rule out the possibility of impaired vehicle handling and possible loss of control of the vehicle.

Action required: Replace trailing arm on front axle, lower right.

Affected Vehicles: Only vehicles assigned to the campaign (see also PCSS Vehicle Information).

Required parts and materials

Parts Info:	Part No.	Designation – Use	Qty.
	V04015006N	⇒ Front axle trailing arm, lower right	1 ea.
	PAF108544	⇒ Oval-head screw, M12 x 1.5 x 90 – Spring strut to lower trailing arm	1 ea.
	PAF909664	⇒ Hexagon collar nut, M12 x 1.5 – Spring strut to lower trailing arm	1 ea.

Additional parts required if the camber on the front axle must be corrected during suspension alignment:



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**.

Part No.	Designation – Use	Qty.
N 91244301	⇒ Hexagon flange bolt M12 x 1.5 x 90 – Front-axle carrier to body	6 ea.

Materials: **Required materials** (usually already available in the Porsche Centre):

Part No.	Designation	Qty.
00004330508	⇒ Mounting paste – Wheel centring surface to wheel hub	Stop Delivery/Recall campaign

Required tools

- Tools:
- Suitable transmission and engine jack, e.g. **VAS 6931 Engine and gearbox jack**
 - **T10187 - Press-out tool**
 - **VAS 6826 Steering wheel alignment gauge**
 - **VAS 6918 Quick-clamping unit**
 - **P90009 - P90009 - Puller**
 - **VAS 261 019 - Ratchet ring wrench socket, a/f 19**
 - **T90009 - T90009 - Insert tool**
 - Torque/torque angle wrench, 20 – 400 Nm (15 – 296 ftlb.), e.g. **VAS 6942 Digital torque wrench, 20 – 400 Nm (15 – 296 ftlb.)**
 - Torque screwdriver, 1.5 – 3 Nm (1 – 2 ftlb.), e.g. **VAS 6494 Torque screwdriver, 1.5 – 3.0 Nm (1 – 2 ftlb.)**
 - 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, 40 – 200 Nm (30 – 148 ftlb.), e.g. **VAG 1332 Torque wrench, 40 – 200 Nm (30 – 148 ftlb.)**
 - **9900 - PIWIS Tester 3**
 - Battery charger with a current rating of **at least 90 A**, e.g. **VAS 5908 Battery charger 90A**

Additional tools required for **calibrating the driver assistance systems**:

- **Adjustment device with reflector**
- **ACC reflector mirror**
- **Lane Departure Warning Calibration Plate**
- **VAS 6350A - Calibration unit**

Replacing trailing arm on front axle, lower right

- Work Procedure: 1 Move the vehicle onto a lifting platform and raise it. ⇒ *Workshop Manual '4X00IN Lifting the vehicle'*
- 2 Remove right front wheel. ⇒ *Workshop Manual '440519 Removing and installing wheel'*

- 3 Remove front right wheel housing liner. ⇒ *Workshop Manual '505619 Removing and installing front wheel housing liner'*
- 4 Remove front section of wheel housing liner on the right. ⇒ *Workshop Manual '50561903 Removing and installing front wheel housing liner (front section)'*
- 5 Remove front underbody cover. ⇒ *Workshop Manual '519219 Removing and installing front underbody cover'*
- 6 Loosen condenser.
For instructions, see: ⇒ *Workshop Manual '875019 Removing and installing condenser'*
- 7 Loosen the front spring strut or air-spring strut on the lower trailing arm.
For instructions see:
⇒ *Workshop Manual '408519 Removing and installing front spring strut'*
⇒ *Workshop Manual '433019 Removing and installing front air-spring strut'*
- 8 Replace lower trailing arm on front axle. ⇒ *Workshop Manual '401719 Removing and installing lower trailing arm'*
- 9 Secure the front spring strut or air-spring strut on the lower trailing arm.
For instructions see:
⇒ *Workshop Manual '408519 Removing and installing front spring strut'*
⇒ *Workshop Manual '433019 Removing and installing front air-spring strut'*
- 10 Secure condenser.
For instructions, see: ⇒ *Workshop Manual '875019 Removing and installing condenser'*
- 11 Install front underbody cover. ⇒ *Workshop Manual '519219 Removing and installing front underbody cover'*
- 12 Install front section of wheel housing liner on the right. ⇒ *Workshop Manual '50561903 Removing and installing front wheel housing liner (front section)'*
- 13 Install front wheel housing liner on the right. ⇒ *Workshop Manual '505619 Removing and installing front wheel housing liner'*
- 14 Install right front wheel. ⇒ *Workshop Manual '440519 Removing and installing wheel'*
- 15 Lower the vehicle and remove it from the lifting platform.
- 16 Perform suspension alignment and adjust the vehicle.

**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**.

If the camber on the front axle must be adjusted, first adjust the front-axle carrier and screw it to the body **using the old fastening screws** and then **replace all relevant fastening screws one after the other** with new screws.

For instructions, see:

⇒ *Workshop Manual '449503 Performing front and rear suspension alignment'*

⇒ *Workshop Manual '4495TW Adjustment values for suspension alignment'*

17 After correcting the wheel alignment values, carry out the following required subsequent work.

17.1 Calibrate steering-angle sensor. ⇒ *Workshop Manual '456005 Initialising and calibrating steering-angle sensor'*

17.2 Teach power-steering gear. ⇒ *Workshop Manual '489025 Teaching power-steering gear'*

**Information**

The front camera and driver assistance systems must only be calibrated if the axle geometry needs to be adjusted during suspension measurement.

17.3 Calibrate front camera.

For instructions see: ⇒ *Workshop Manual '963855 Replacing front camera'*

17.4 **If installed:** Calibrate control unit for distance measuring sensor (ACC).

For instructions, see: ⇒ *Workshop Manual '278515 Adjusting control unit for distance measuring sensor'*

17.5 **If installed:** Calibrate infrared camera.

For instructions see: ⇒ *Workshop Manual '908055 Replacing camera for night vision system'*

18 Enter the campaign in the Warranty and Maintenance booklet.

- References:
- ⇒ *Workshop Manual '408519 Removing and installing front spring strut'*
 - ⇒ *Workshop Manual '433019 Removing and installing front air-spring strut'*
 - ⇒ *Workshop Manual '401719 Removing and installing lower trailing arm'*
 - ⇒ *Workshop Manual '875019 Removing and installing condenser'*
 - ⇒ *Workshop Manual '519219 Removing and installing front underbody cover'*
 - ⇒ *Workshop Manual '50561903 Removing and installing front wheel housing liner (front section)'*
 - ⇒ *Workshop Manual '505619 Removing and installing front wheel housing liner'*
 - ⇒ *Workshop Manual '440519 Removing and installing wheel'*
 - ⇒ *Workshop Manual '449503 Performing front and rear suspension alignment'*
 - ⇒ *Workshop Manual '4495TW Adjustment values for suspension alignment'*

- ⇒ Workshop Manual '456005 Initialising and calibrating steering-angle sensor'
- ⇒ Workshop Manual '489025 Teaching power-steering gear'
- ⇒ Workshop Manual '278515 Adjusting control unit for distance measuring sensor'
- ⇒ Workshop Manual '963855 Replacing front camera'
- ⇒ Workshop Manual '908055 Replacing camera for night vision system'

Warranty processing

Information:



Information

The working times specified below were determined specifically for carrying out this campaign and may differ from the working times published in the Labor Operation List in PWIS.

Scopes 1 - 3: Valid for Panamera (971). See relevant Technical Information for these vehicle types.

Scope 4: **Replacing trailing arm on front axle, lower right**

This scope must be invoiced if adjustment of the axle geometry was not required during suspension alignment and consequently the front camera and further driver assistance systems did not have to be calibrated.

Working time:

Replacing trailing arm on front axle, lower right Labor time: **259 TU**

- Includes:
- Raising and lowering the vehicle
 - Removing and installing front right wheel
 - Removing and installing front underbody cover
 - Removing and installing front section of front wheel housing liner on the right
 - Removing and installing front right wheel housing liner
 - Loosening and securing condenser
 - Performing suspension alignment
 - Calibrating steering-angle sensor
 - Teaching power-steering gear

- Without:
- Calibrating control unit for distance measuring sensor
 - Calibrating front camera
 - Calibrating night vision system

Parts required:

V04015006N	Front axle trailing arm, lower right	1 ea.
PAF108544	Oval-head screw, M12 x 1.5 x 90	1 ea.
PAF909664	Hexagon collar nut, M12 x 1.5	1 ea.

Materials required:

00004330508	Mounting paste	0.02 ea.
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⇒ Damage Code AMB2 099 000 2

Scope 5:

Replacing trailing arm on front axle, lower right

– also calibrating front camera without further driver assistance systems

- **without** adaptive cruise control (ACC) (M-no. 3V2 or 3V9 or 8T8)
- **without** Night View Assist (M-no. 9R1)

Working time:

Replacing trailing arm on front axle, lower right

Labor time: **622 TU**

Includes:

- Raising and lowering the vehicle
- Removing and installing front right wheel
- Removing and installing front underbody cover
- Removing and installing front section of front wheel housing liner on the right
- Removing and installing front right wheel housing liner
- Loosening and securing condenser
- Performing suspension alignment and adjusting the vehicle
- Calibrating steering-angle sensor
- Teaching power-steering gear
- Calibrating front camera

Without:

- Calibrating control unit for distance measuring sensor
- Calibrating night vision system

Parts required:

V04015006N	Front axle trailing arm, lower right	1 ea.
PAF108544	Oval-head screw, M12 x 1.5 x 90	1 ea.
PAF909664	Hexagon collar nut, M12 x 1.5	1 ea.

Additional parts required if the camber on the front axle was corrected:

N 91244301	Hexagon flange bolt, M12 x 1.5 x 90	6 ea.
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Materials required:

00004330508	Mounting paste	0.02 ea.
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⇒ Damage Code AMB2 099 000 2

- Scope 6: **Replacing trailing arm on front axle, lower right**
 – also calibrating front camera and driver assistance systems
- **with** adaptive cruise control (ACC) (M-no. 3V2 or 3V9 or 8T8)

and/or

- **with** Night View Assist (M-no. 9R1)

Working time:

Replacing trailing arm on front axle, lower right Labor time: **650 TU**

Includes:

- Raising and lowering the vehicle
- Removing and installing front right wheel
- Removing and installing front underbody cover
- Removing and installing front section of front wheel housing liner on the right
- Removing and installing front right wheel housing liner
- Loosening and securing condenser
- Performing suspension alignment and adjusting the vehicle
- Calibrating steering-angle sensor
- Teaching power-steering gear
- Calibrating front camera
- Calibrating control unit for distance measuring sensor
- Calibrating night vision system

Parts required:

V04015006N	Front axle trailing arm, lower right	1 ea.
PAF108544	Oval-head screw, M12 x 1.5 x 90	1 ea.
PAF909664	Hexagon collar nut, M12 x 1.5	1 ea.

Additional parts required if the camber on the front axle was corrected:

N 91244301	Hexagon flange bolt, M12 x 1.5 x 90	8 ea.
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Materials required:

00004330508	Mounting paste	0.02 ea.
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⇒ **Damage Code AMB2 099 000 2**

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