

ANB8 - Checking Air-Spring Strut on the Front Axle and Replacing it if Necessary (Recall Campaign)

Model Line: **Taycan (Y1A/Y1B)**

Model Year: **2021**

Concerns: **Air-spring strut, front axle**

Cause: **There is a possibility that the air-spring strut on the left and right of the front axle on the affected vehicles was not manufactured according to specifications.**

This can cause the circlip on the top of the strut to come loose and release the air in the air spring. The driving characteristics of the vehicle can be adversely affected, increasing the risk of an accident.

Action required: Check the air-spring strut on the left and right front axle and replace depending on the test result.



Information

Depending on the result of the check and order type, the following scopes may arise:

Scope 1: Checking air-spring strut on the front axle at the left and right

Scope 2: Replacing air-spring strut on the front axle at the left **or** right – relevant for **Taycan**

Scope 3: Replacing air-spring strut on the front axle at the left **or** right – relevant for **Taycan 4S, Taycan Turbo, Taycan Turbo S**

Scope 4: Replacing air-spring strut on the front axle at the left **or** right – relevant for **Taycan 4 Cross Turismo, Taycan 4S Cross Turismo, Taycan Turbo Cross Turismo**

Scope 5: Replacing air-spring strut on the front axle at the left **and** right – relevant for **Taycan**

Scope 6: Replacing air-spring strut on the front axle at the left **and** right – relevant for **Taycan 4S, Taycan Turbo, Taycan Turbo S**

Scope 7: Replacing air-spring strut on the front axle at the left **and** right – relevant for **Taycan 4 Cross Turismo, Taycan 4S Cross Turismo, Taycan Turbo Cross Turismo**



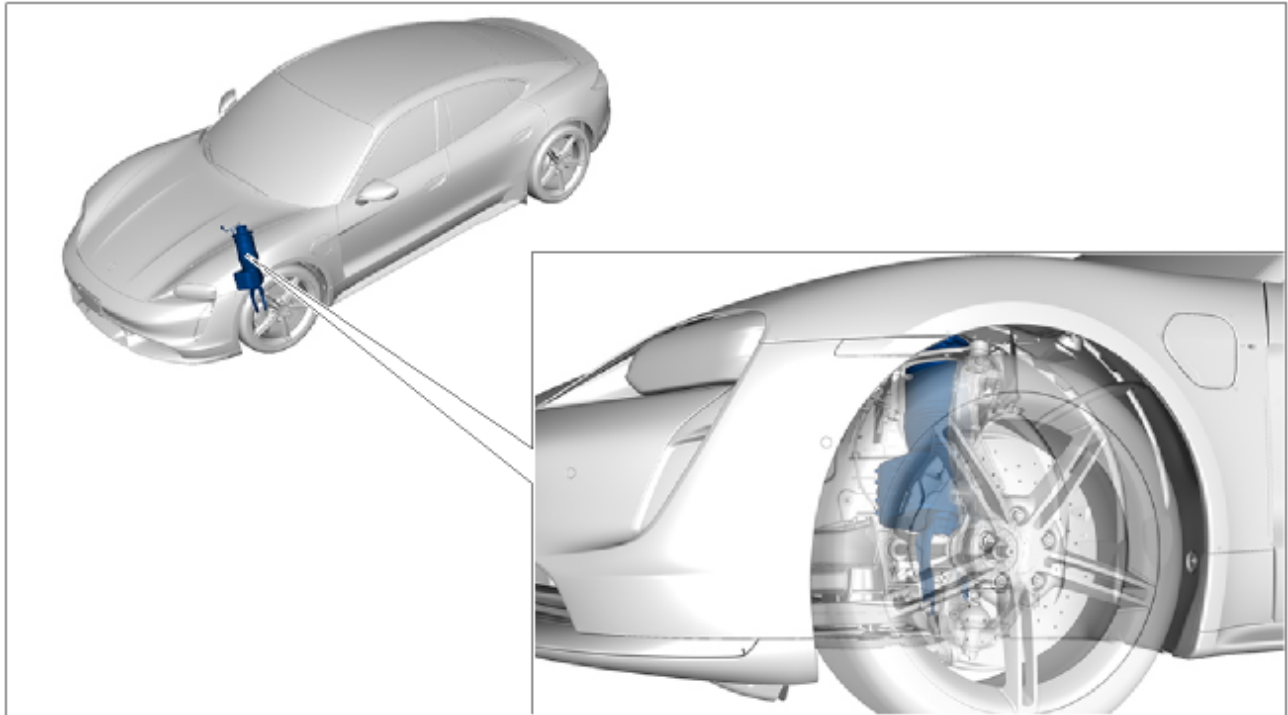
Information

If there is a complaint about a vehicle with a mileage/km of more than 18,641 mls/ 30,000 km on one side, both spring struts must be replaced.

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

Installation

Position:



Installation position of air-spring strut

Required tools – relevant for checking the air-spring struts on the front axle

- Tools:
- Measuring tape or steel rule
 - Torque wrench, 6-50 Nm (4.5-37 ftlb.) e.g. **VAG 1331A torque wrench, 6-50 Nm (4.5-37 ftlb.)** or equivalent

Required tools – relevant for replacing the air-spring struts on the front axle

- Tools:
- PIWIS Tester 3, e.g. **9900 - PIWIS Tester 3**
 - Battery charger with a current rating of **at least 90 A**, e.g. **VAS 5908 battery charger 90 A**
 - Torque/torque wrench, 20-400 Nm (15-296 ftlb.), e.g. **VAS 6942 - Digital torque—torque – wrench, 20-400 Nm (15-296 ftlb.)** or equivalent
 - Torque wrench, 2-10 Nm (1.5-7.5 ftlb.), e.g. **V.A.G 1783 - torque wrench, 2-10 Nm (1.5-7.5 ftlb.)** or equivalent
 - Torque wrench, 20-100 Nm (15-74 ftlb.), e.g. **VAS 5820 - Torque wrench, 20-100 Nm (15-74 ftlb.)** or equivalent
 - Torque wrench, 40-200 Nm (30-148 ftlb.), e.g. **V.A.G 1332A - Torque wrench, 40-200 Nm (30-148 ftlb.)** or equivalent
 - Torque wrench, 150-800 Nm (111 - 592 ftlb.), e.g. **V.A.G 1601 - Torque wrench, 150 - 800 Nm (111 - 592 ftlb.)** or equivalent

- Ball joint puller, e.g. **T40010A - ball joint puller**
- Press-out device, e.g. **T10187 - press-out device**
- Puller set, e.g. **VAS 6926 - puller set**
- Transmission and aggregate jack, e.g. **VAS 6931 - transmission and aggregate jack**
- Pole terminal puller, e.g. **VAS 6935 - pole terminal puller**
- Puller, e.g. **P90009 - P90009 - puller**
- Set of insulated tools, e.g. **VAS 6883A - set of insulated tools**

Checking air-spring strut on the front axle at the left and right - campaign scope 1

Work
Procedure:

- 1 Open front lid.
- 2 Remove cowl panel cover. ⇒ *Workshop Manual '508719 Removing and installing cowl panel cover'*
- 3 Check the distance between the ends of the circlip on the left and right air-spring struts. Proceed according to the specifications specified below:

The distance between the ends of the circlips on the right and left side of the vehicle is larger than 9.5 mm/ 0.37 in: ⇒ <i>Test result OK.</i>	End of remedial action. Continue with Step 4.
The distance between the ends of the circlips on the right or left side of the vehicle is less than or equal to 9.5 mm/ 0.37 in: ⇒ <i>Test result not OK.</i>	Continue with Scope 2, 3 or 4 , depending on the vehicle type.
The distance between the ends of the circlips on the right and left side of the vehicle is less than or equal to 9.5 mm/ 0.37 in ⇒ <i>Test result not OK.</i> or The distance between the ends of the circlip on one side of the vehicle is less than or equal to 9.5 mm/ 0.37 in and the vehicle has a mileage/km greater than 18,641 mls/ 30,000 km:	Continue with Scope 5, 6 or 7 , depending on the vehicle type.



Test result not OK.



Test result OK.

- 4 Install cowl panel cover. ⇒ *Workshop Manual '508719 Removing and installing cowl panel cover'*
- 5 Enter the campaign in the Warranty and Maintenance booklet.

Replacing air-spring strut on the front axle at the left or right - campaign scopes 2 to 4

NOTICE

Lifting, setting the vehicle down or moving the vehicle when the air spring system is not filled

- Risk of damage to the air bellows
- Replace air-spring strut (front) or air bellows (rear).
- ⇒ Deactivate the level control before raising the vehicle.
- ⇒ Do not raise or set the vehicle down when the air spring system is empty.
- ⇒ Moving unpressurized air bellows will cause them to fail; replace components.



Information

If the vehicle has been parked somewhere for a long time and air has escaped from the system, the following warning message will appear in the instrument cluster:

- **Wait until the vehicle is ready to drive!**
- The compressor then fills the individual springs and the system is set to the **required setting/required height!**
- Do not move the vehicle again until this procedure is complete.

- Work Procedure: 1 Connecting a battery charger. ⇒ *Workshop Manual '2X00IN Ion battery trickle charge'*
- 2 Drive the vehicle onto the lifting platform and raise it. For instructions, see ⇒ *Workshop Manual '4X00IN Lifting the vehicle'*

Observe specifications for vehicles with air suspension.

- 3 Bleed the level control. ⇒ *Workshop Manual '430117 Bleeding and filling level control'*



Information

Additional information for Workshop Manual 430117: After emptying the levelling system using the PIWIS Tester, a residual pressure of 2 bar remains in the air spring. Complete emptying is only possible if the pressure control valve is unscrewed. This must be done before removing the air-spring strut from the vehicle.

- 4 Remove front wheel bearing housing. ⇒ *Workshop Manual '405019 Removing and installing front wheel bearing housing'*
- 5 Remove front-axle support (rear section). ⇒ *Workshop Manual '400819 Removing and installing front-axle support (rear section)'*

- 6 Remove the air-spring strut that is the subject of the complaint from the test scope (Scope 1) and install a **new** air-spring strut. Removing and installing ⇒ *Workshop Manual '433019 air-spring strut front'*
- 7 Install front-axle support (rear section). ⇒ *Workshop Manual '400819 Removing and installing front-axle support (rear section)'*
- 8 Install wheel bearing housing. ⇒ *Workshop Manual '405019 Removing and installing front wheel bearing housing'*
- 9 Fill level control. ⇒ *Workshop Manual '430117 Bleeding and filling level control'*
- 10 Install cowl panel cover. ⇒ *Workshop Manual '508719 Removing and installing cowl panel cover'*
- 11 Lower vehicle. For instructions, see ⇒ *Workshop Manual '4X00IN Lifting the vehicle'*
- 12 Enter the campaign in the Warranty and Maintenance booklet.

Replacing air-spring strut on left and right front axle – campaign scopes 5 to 7

NOTICE

Lifting, setting the vehicle down or moving the vehicle when the air spring system is not filled

- Risk of damage to the air bellows
 - Replace air-spring strut (front) or air bellows (rear).
- ⇒ Deactivate the level control before raising the vehicle.
- ⇒ Do not raise or set the vehicle down when the air spring system is empty.
- ⇒ Moving unpressurised air bellows will cause them to fail; replace components.



Information

If the vehicle has been parked somewhere for a long time and air has escaped from the system, the following warning message will appear in the instrument cluster:

- **Wait until the vehicle is ready to drive!**
- The compressor then fills the individual springs and the system to the **required setting/required height**.
- Do not move the vehicle again until this procedure is complete.

Work Procedure: 1 Connecting a battery charger. ⇒ *Workshop Manual '2X00IN Ion-battery trickle charge'*

- 2 Drive the vehicle onto the lifting platform and raise it. For instructions, see ⇒ *Workshop Manual '4X00IN Lifting the vehicle'*

Observe specifications for vehicles with air suspension.

- 3 Bleed the level control. ⇒ *Workshop Manual '430117 Bleeding and filling level control'*



Information

Additional information for Workshop Manual 430117: After emptying the level control system using the PIWIS Tester, a residual pressure of 2 bar remains in the air spring. Complete emptying is only possible if the pressure control valve is unscrewed. This must be done before removing the air-spring strut from the vehicle.

- 4 Remove front wheel bearing housing. ⇒ *Workshop Manual '405019 Removing and installing front wheel bearing housing'*
- 5 Remove front axle support (rear section) ⇒ *Workshop Manual '400819 Removing and installing front axle support (rear section)'*
- 6 Remove air-spring strut on the left and right side of the vehicle and install **new** air-spring struts on both sides of the vehicle. For instructions, see ⇒ *Workshop Manual '433019 Removing and installing air-spring strut front'*
- 7 Install front-axle support (rear section). ⇒ *Workshop Manual '400819 Removing and installing front-axle support (rear section)'*
- 8 Install wheel bearing housing. ⇒ *Workshop Manual '405019 Removing and installing front wheel bearing housing'*
- 9 Fill the level control. ⇒ *Workshop Manual '430117 Bleeding and filling level control'*
- 10 Install cowl panel cover. ⇒ *Workshop Manual '508719 Removing and installing cowl panel cover'*
- 11 Lower vehicle. For instructions, see ⇒ *Workshop Manual '4X00IN Lifting the vehicle'*
- 12 Enter the campaign in the Warranty and Maintenance booklet.

Warranty processing

Scope 1: **Checking air-spring strut on front axle, front left and right**

Labor time:	
Checking front left and right air-spring strut	Labor time: 104 TU
Includes:	<ul style="list-style-type: none"> Removing and installing (front) plenum panel cover Removing and installing front trim (engine compartment) Removing and installing wiper arm Removing and installing cowl panel cover

Required parts:

N 10261307 Hexagon nut 2 pieces

⇒ **Damage Code ANB8 99 000, Repair Code 1**

Warranty processing

Scope 2: **Replacing air-spring strut on left or right front axle**

- Relevant only for **Taycan**

Labor time:

Replacing air-spring strut on left or right front axle

Labor time: **624 TU**

Includes:

- Removing and installing (front) plenum panel cover
- Remove and install the front trim (engine compartment)
- Removing and installing wiper arm
- Removing and installing cowl panel cover
- Checking left and right air-spring strut
- Bleeding and filling level control
- Removing and installing hub caps
- Removing and installing wheel
- Removing and installing brake disc front
- Removing and installing connecting link for anti-roll bar
- Removing and installing wheel bearing housing
- Remove front-axle support (rear section).
- Removing and installing air-spring strut
- Performing suspension alignment on the vehicle
- Adjust chassis level

Required parts:

V04015010D	Air spring damper, left	1 pc(s)
or		
V04015010E	Air spring damper, right	1 pc(s)
N 10261307	Hexagon nut	2 pc(s)
WHT007021	Hexagon nut	1 pc(s)
PAF911085	Collared cheese head bolt	1 pc(s)
PAF102861	Hexagon collar nut	1 pc(s)
N 10272302	Hexagon collar nut	1 pc(s)
N 10793603	Hex flange bolt	1 pc(s)

N 0150818	Hexagon collar nut	1 pc(s)
PAF108544	Oval-head screw	1 pc(s)
PAF909664	Hexagon collar nut	1 pc(s)
N 10261311	Hexagon nut	3 pc(s)
WHT005157	O-ring	1 pc(s)
9A740763500	Circlip	1 pc(s)
9J1407623	Oil slinger	1 pc(s)
971407624	Oil slinger	1 pc(s)
WHT005156	O-ring	1 pc(s)
PAF004571	Collared cheese head bolt (M-no. A8C, 1LS, A8F, 1LR)	2 pc(s)
or		
PAF004572	Collared cheese head bolt (M-no. 1LQ, 1LX, 1LZ, 1ZP)	2 pc(s)

⇒ **Damage Code ANB8 099 000 2**

Scope 3 and 4: **Not** relevant for this vehicle type.

Scope 5: **Replacing air-spring strut on left and right front axle**

- Relevant only for **Taycan**

Labor time:	
Replacing air-spring strut on left and right front axle	Labor time: 809 TU
Includes:	<ul style="list-style-type: none"> Removing and installing (front) plenum panel cover Remove and install the front trim (engine compartment) Removing and installing wiper arm Removing and installing cowl panel cover Checking left and right air-spring strut Bleeding and filling level control Removing and installing hub caps Removing and installing wheel Removing and installing brake disc front Removing and installing connecting link for anti-roll bar Removing and installing wheel bearing housing Remove front-axle support (rear section). Removing and installing air-spring strut Performing suspension alignment on the vehicle Adjust chassis level

Required parts:

V04015010D	Air spring damper, left	1 pc(s)
V04015010E	Air spring damper, right	1 pc(s)
N 10261307	Hexagon nut	2 pc(s)
WHT007021	Hexagon nut	2 pc(s)
PAF911085	Collared cheese head bolt	2 pc(s)
PAF102861	Hexagon collar nut	2 pc(s)
N 10272302	Hexagon collar nut	2 pc(s)
N 10793603	Hex flange bolt	2 pc(s)
N 0150818	Hexagon collar nut	2 pc(s)
PAF108544	Oval-head screw	2 pc(s)
PAF909664	Hexagon collar nut	2 pc(s)
N 10261311	Hexagon nut	6 pc(s)
WHT005157	O-ring	2 pc(s)
9A740763500	Circlip	2 pc(s)
9J1407623	Oil slinger	2 pc(s)
971407624	Oil slinger	2 pc(s)
WHT005156	O-ring	2 pc(s)
PAF004571	Collared cheese head bolt (M-no. A8C, 1LS, A8F, 1LR)	4 pc(s)
or		
PAF004572	Collared cheese head bolt (M-no. 1LQ, 1LX, 1LZ, 1ZP)	4 pc(s)

⇒ Damage Code ANB8 099 000 2

Warranty processing

Scope 2 **Not** valid for this vehicle type.

Scope 3: **Replacing air suspension strut or upper right trailing arm on front axle**

- Valid for **Taycan 4S, Taycan Turbo, Taycan Turbo S** vehicles

Labor time:

Replacing air suspension strut or upper right trailing arm on front axle

Labor time: **642 TU**

- Includes:
- Removing and installing (front) plenum panel cover
 - Remove and install the front trim (engine compartment)
 - Removing and installing wiper arm
 - Removing and installing cowl panel cover
 - Checking left and right air-spring strut
 - Bleeding and filling level control
 - Removing and installing hub caps
 - Removing and installing wheel
 - Removing and installing brake disc front
 - Removing and installing connecting link for anti-roll bar
 - Removing and installing wheel bearing housing
 - Remove front-axle support (rear section).
 - Removing and installing air-spring strut
 - Performing suspension alignment of the vehicle
 - Adjust chassis level

Required parts:

V04015010D	Left air spring damper	1 piece
or		
V04015010E	Right air spring damper	1 piece
N 10261307	Hexagon nut	2 pieces
WHT007021	Hexagon nut	1 piece
PAF911085	Collared cheese head bolt	1 piece
PAF102861	Hexagon collar nut	1 piece
N 10272302	Hexagon collar nut	1 piece
N 10793603	Hex flange bolt	1 piece
N 0150818	Hexagon collar nut	1 piece
PAF108544	Oval-head screw	1 piece
PAF909664	Hexagon collar nut	1 piece
N 10261311	Hexagon nut	3 pieces
WHT005157	O-ring	1 piece
9A740763500	Circlip	1 piece
9J1407623	Spin washer	1 piece
971407624	Spin washer	1 piece

WHT005156	O-ring	1 piece
PAF004571	Cylinder collar screw (M-no. A8C, 1LS, A8F, 1LR)	2 pieces
or		
PAF004572	Cylinder collar screw (M-no. 1LQ, 1LX, 1LZ, 1ZP)	2 pieces

⇒ **Damage Code ANB8 099 000 2**

Scopes 4 and 5: **Not** valid for this vehicle type.

Scope 6: **Replacing air suspension strut and upper right trailing arm on front axle**

- Valid for **Taycan 4S, Taycan Turbo, Taycan Turbo S** vehicles

Labor time:

Replacing air suspension strut and upper right trailing arm on front axle Labor time: **844 TU**

Includes:

- Removing and installing (front) plenum panel cover
- Remove and install the front trim (engine compartment)
- Removing and installing wiper arm
- Removing and installing cowl panel cover
- Checking left and right air-spring strut
- Bleeding and filling level control
- Removing and installing hub caps
- Removing and installing wheel
- Removing and installing brake disc front
- Removing and installing connecting link for anti-roll bar
- Removing and installing wheel bearing housing
- Remove front-axle support (rear section).
- Removing and installing air-spring strut
- Performing suspension alignment of the vehicle
- Adjust chassis level

Required parts:

V04015010D	Left air spring damper	1 piece
V04015010E	Right air spring damper	1 piece
N 10261307	Hexagon nut	2 pieces
WHT007021	Hexagon nut	2 pieces
PAF911085	Collared cheese head bolt	2 pieces
PAF102861	Hexagon collar nut	2 pieces

N 10272302	Hexagon collar nut	2 pieces
N 10793603	Hex flange bolt	2 pieces
N 0150818	Hexagon collar nut	2 pieces
PAF108544	Oval-head screw	2 pieces
PAF909664	Hexagon collar nut	2 pieces
N 10261311	Hexagon nut	6 pieces
WHT005157	O-ring	2 pieces
9A740763500	Circlip	2 pieces
9J1407623	Spin washer	2 pieces
971407624	Spin washer	2 pieces
WHT005156	O-ring	2 pieces
PAF004571	Cylinder collar screw (M-no. A8C, 1LS, A8F, 1LR)	4 pieces
or		
PAF004572	Cylinder collar screw (M-no. 1LQ, 1LX, 1LZ, 1ZP)	4 pieces

⇒ Damage Code ANB8 099 000 2

Warranty processing

Scopes 2 and 3: **Not** relevant for this vehicle type.

Scope 4: **Replacing air-spring strut on left or right front axle**

- Relevant for vehicles **Taycan 4 Cross Turismo, Taycan 4S Cross Turismo, Taycan Turbo Cross Turismo**

Labor time:	
Replacing air-spring strut on left or right front axle	Labor time: 642 TU
Includes:	<ul style="list-style-type: none"> Removing and installing (front) plenum panel cover Remove and install the front trim (engine compartment) Removing and installing wiper arm Removing and installing cowl panel cover Checking left and right air-spring strut Bleeding and filling level control Removing and installing hub caps Removing and installing wheel Removing and installing brake disc front Removing and installing connecting link for anti-roll bar

Removing and installing wheel bearing housing
 Remove front-axle support (rear section).
 Removing and installing air-spring strut
 Performing suspension alignment on the vehicle
 Adjust chassis level

Required parts:

V04015010F	Air spring damper, left	1 pc(s)
or		
V04015010G	Air spring damper, right	1 pc(s)
N 10261307	Hexagon nut	2 pc(s)
WHT007021	Hexagon nut	1 pc(s)
PAF911085	Collared cheese head bolt	1 pc(s)
PAF102861	Hexagon collar nut	1 pc(s)
N 10272302	Hexagon collar nut	1 pc(s)
N 10793603	Hex flange bolt	1 pc(s)
N 0150818	Hexagon collar nut	1 pc(s)
PAF108544	Oval-head screw	1 pc(s)
PAF909664	Hexagon collar nut	1 pc(s)
N 10261311	Hexagon nut	3 pc(s)
WHT005157	O-ring	1 pc(s)
9A740763500	Circlip	1 pc(s)
9J1407623	Oil slinger	1 pc(s)
971407624	Oil slinger	1 pc(s)
WHT005156	O-ring	1 pc(s)
PAF004571	Collared cheese head bolt (M-no. A8C, 1LS, A8F, 1LR)	2 pc(s)
or		
PAF004572	Collared cheese head bolt (M-no. 1LQ, 1LX, 1LZ, 1ZP)	2 pc(s)

⇒ **Damage Code ANB8 099 000 2**

Scopes 5 and 6: **Not** relevant for this vehicle type.

Scope 7: **Replacing air-spring strut on left and right front axle**

- Relevant for vehicles **Taycan 4 Cross Turismo, Taycan 4S Cross Turismo, Taycan Turbo Cross Turismo**

Labor time:

Replacing air-spring strut on left or right front axle

Labor time: **844 TU**

- Includes:
- Removing and installing (front) plenum panel cover
 - Remove and install the front trim (engine compartment)
 - Removing and installing wiper arm
 - Removing and installing cowl panel cover
 - Checking left and right air-spring strut
 - Bleeding and filling level control
 - Removing and installing hub caps
 - Removing and installing wheel
 - Removing and installing brake disc front
 - Removing and installing connecting link for anti-roll bar
 - Removing and installing wheel bearing housing
 - Remove front-axle support (rear section).
 - Removing and installing air-spring strut
 - Performing suspension alignment on the vehicle
 - Adjust chassis level

Required parts:

V04015010F	Air spring damper, left	1 pc(s)
V04015010G	Air spring damper, right	1 pc(s)
N 10261307	Hexagon nut	2 pc(s)
WHT007021	Hexagon nut	2 pc(s)
PAF911085	Collared cheese head bolt	2 pc(s)
PAF102861	Hexagon collar nut	2 pc(s)
N 10272302	Hexagon collar nut	2 pc(s)
N 10793603	Hex flange bolt	2 pc(s)
N 0150818	Hexagon collar nut	2 pc(s)
PAF108544	Oval-head screw	2 pc(s)
PAF909664	Hexagon collar nut	2 pc(s)
N 10261311	Hexagon nut	6 pc(s)
WHT005157	O-ring	2 pc(s)
9A740763500	Circlip	2 pc(s)
9J1407623	Oil slinger	2 pc(s)

971407624	Oil slinger	2 pc(s)
WHT005156	O-ring	2 pc(s)
PAF004571	Collared cheese head bolt (M-no. A8C, 1LS, A8F, 1LR)	4 pc(s)
or		
PAF004572	Collared cheese head bolt (M-no. 1LQ, 1LX, 1LZ, 1ZP)	4 pc(s)

⇒ **Damage Code ANB8 099 000 2**

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