

Front Air Spring Strut Leaking - Yellow or Red Warning Message in Instrument Cluster: Check Plastic Welded Seam on Air Spring Strut (43/25)

Model Line: **Cayenne (9YA / 9YB)**

Model Year: **2023**

Equipment: Air suspension (**M-no. 1BK / 2MA / 2MB**)

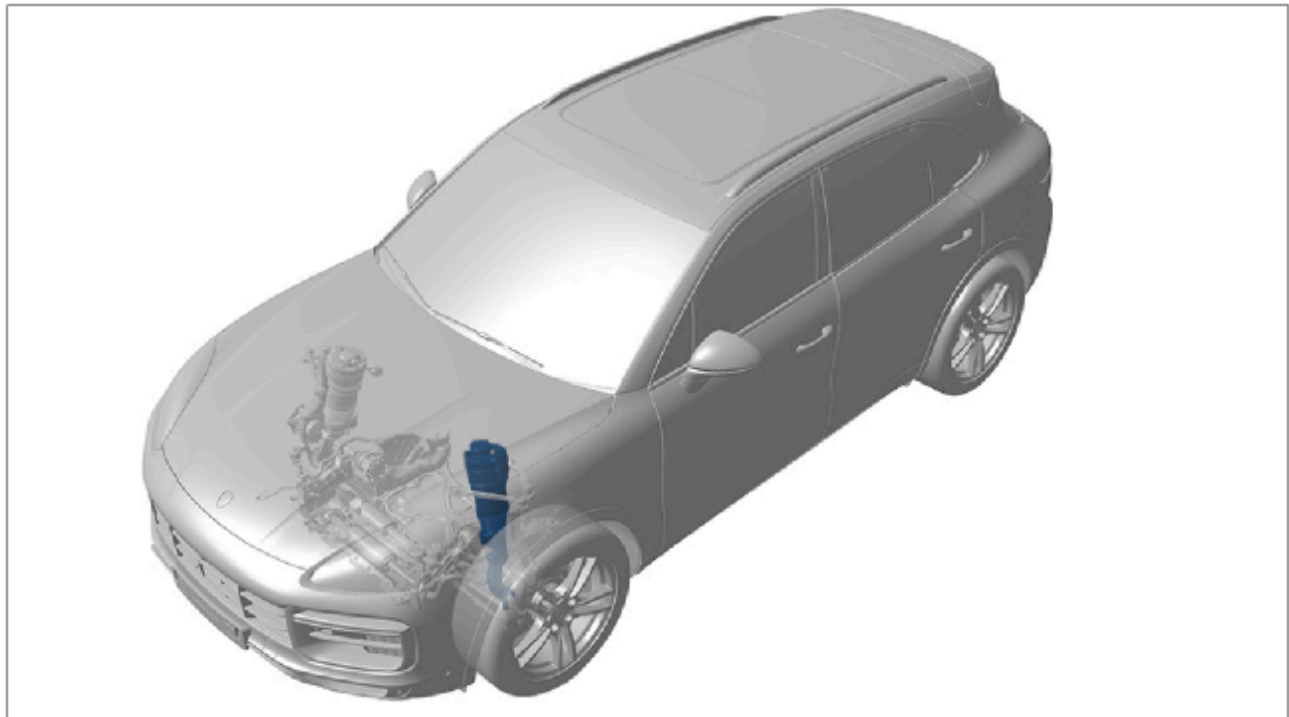
Concerns: **Front air spring strut**

Cause: **The customer complains about a lowered chassis on the front axle and lighting up of one of the following warning messages in the instrument cluster:**

- Yellow warning message "**Chassis system malfunction, adapt driving style, visit workshop**"
- Yellow warning message "**Vehicle extremely low, wait for readiness to drive, do not drive off**"
- Red warning message "**Chassis system not ready for operation, stop vehicle safely**"

Action: If there is a customer complaint, check front air spring struts and, if there is a leak at the plastic welded seam on one of the two air spring struts, replace front air spring struts (left and right) **both once**.

Installation
Position:



Installation position

Required parts**Information****No parts are required** for checking the front air spring struts.

Parts Info:

Part No.	Designation – Location of use	Quantity
9Y0 616 39 E	⇒ Air spring strut – front left	1 piece
9Y0 616 40 E	⇒ Air spring strut – front right	1 piece
PAF912603	⇒ Hexagon-head bolt with washer M8 x 34 – Air spring strut	6 piece(s)
9A700837900	⇒ Tie-wrap – Air guide	4 piece(s)
N 10272202	⇒ Hexagon-head bolt combination, M12 x 95 – Shock absorber bracket	2 piece(s)
N 10106402	⇒ Hexagon collar nut, self-locking M12 – Shock absorber bracket	2 piece(s)
N 10784702	⇒ Hexagon flange bolt, M12 x 85 – Shock absorber bracket (bottom)	2 piece(s)
PAF001987	⇒ Hexagon nut, self-locking with washer M12 – Shock absorber bracket (bottom)	2 piece(s)
WHT006542	⇒ Hexagon flange bolt, M10 x 130 – Pivot bearings	2 piece(s)
N 10272302	⇒ Hexagon collar nut, self-locking M10 – Pivot bearings	2 piece(s)

Required tools



Information

No tools are required for checking the front air spring struts.

Tools:

- **P90999 - PIWIS Tester 4**
- Battery charger with a current rating of **at least 90 A**, e.g. **VAS 5908 - battery charger 90A**. For further information about the battery chargers to be used, see the corresponding Workshop Manual. ⇒ *Workshop Manual '2X00IN Battery trickle charge'*
- 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.)**
- Torque wrench, 6-50 Nm (4.5-37 ftlb.), e.g. **V.A.G 1331A - torque spanner, 6-50 Nm (4.5-37 ftlb.)**
- Torque wrench, 40-200 Nm (30-148 ftlb.), e.g. **V.A.G 1332A - Torque wrench, 40-200 Nm (30-148 ftlb.)**
- **VAS 6266A - Wheel fitting trolley**
- **VAS 6931A - Transmission and gearbox jack**
- **3424 - Spreader**
- **VAS 6927 - Tie-wrap pliers**

Check front air spring struts and replace them if necessary

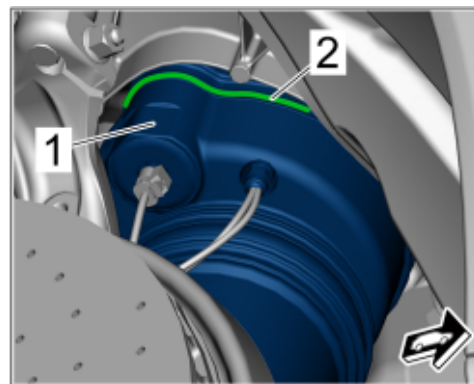
Work Procedure: 1 Check plastic welded seam ⇒ *Plastic welded seam on the air spring strut -2-* on the front air spring struts ⇒ *Plastic welded seam on the air spring strut -1-* with water emulsion and replace **both** front air spring struts (left and right) if necessary.




Information

General information for carrying out the leak test

- Use a water/dishwashing liquid emulsion for carrying out the leak test.
- The following fluid mixture makes an ideal water emulsion: 6 drops of commercially available dishwashing liquid mixed in 1 liter / 0.26 gal of tap water.
- Fill water emulsion into a suitable spray bottle.



Plastic welded seam on the air spring strut

Assessment		Action
(✓)	Both front air spring struts show no leakage at the plastic weld seam.	The action described in this technical information is not applicable and does not provide any remedy. Continue troubleshooting in some other way.
(x)	<p>One of the two front air spring struts is leaking at the plastic weld seam. ⇒ <i>Plastic welded seam leaking</i></p>  <p><i>Plastic welded seam leaking</i></p>	<p>Front air spring strut is not OK.</p> <p>Replace both front air spring struts (left and right).</p> <p>For procedure, see: ⇒ <i>Workshop Manual '433019A4 Removing and installing front air spring strut'</i></p>

Labor position and PCSS encryption

Labor position:

APOS	Labor operation	I No.
43300249	Check front air spring strut	
43305699	Replace front left and right air spring struts	

PCSS encryption:

Location (FES5)	43300	Front air spring strut
Damage type (SA4)	5021	Air leak

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