

WKF8 - Replacing PSCB Brake Pads on Front Axle and Replacing Brake Pad Retainer Springs on Rear Axle (Workshop campaign)

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

Model Year: **As of 2018 up to 2020**

Subject: **Porsche Surface Coated Brake (PSCB)**

Information: **There is a possibility that road salt used during snow clearing and gritting can sometimes have a negative effect on the friction coefficient of PSCB brake pads containing copper.**

This may result in a delayed braking response.

- Remedial Action:
- Replace the PSCB brake pads on the front axle with brake pads without copper content.
 - Additionally replace the brake pad retainer springs on the rear axle to prevent brake noises ("squealing") at low speeds.



Information

Please note that the PSCB brake pads on the front axle or the brake pad retainer springs on the rear axle have already been replaced on some of the vehicles affected by the campaign due to a customer complaint.

For this reason, specific campaign scopes have been defined and each vehicle has been clearly assigned just one campaign scope.

⇒ To find out which scope is assigned to the vehicle, see PCSS Vehicle Information.

	Situation:	Action required:
Scope 1:	No customer complaint.	<ul style="list-style-type: none"> • Replace the PSCB brake pads on the front axle. • Replace the brake pad retainer springs on the rear axle. <p>To do this ⇒ <i>Technical Information</i> ; continue by replacing the PSCB brake pads on the front axle and replacing the brake pad retainer springs on the rear axle'.</p>

Scope 2:	Due to a customer complaint , the installed brake pad retainer springs on the rear axle were already replaced with new springs, see ⇒ <i>Technical Information '464155 Noise symptom - Noises from brakes on rear axle (I-no. 2EQ/2ES Replacing brake pad retainer springs (SY 169/18)'</i>	<ul style="list-style-type: none"> Replace the PSCB brake pads on the front axle. <p>To do this ⇒ <i>Technical Information '464155 , continue by replacing the PSCB Brake pads on the front axle'.</i></p>
Scope 3:	Due to a customer complaint, the PSCB brake pads installed on the front axle were already replaced , see ⇒ <i>Technical Information '463255 Noise symptom - Noises from brakes on front axle (I-no. 1ZI, 1ZU): Replacing front brake pads (SY 24/19)'</i>	<ul style="list-style-type: none"> Replace the brake pad retainer springs on the rear axle. <p>To do this ⇒ <i>Technical Information '463255 , continue by replacing the brake pad retaining spring on the rear axle'</i></p>

Affected Vehicles: Only vehicles assigned to the campaign (see also PCSS Vehicle Information). There are 1,191 vehicles affected by this campaign in North America.

Parts required



Information

The part numbers of the parts required for the respective vehicle are specified in the relevant **assigned scope**.

To find out which parts are required, depending on the assigned campaign scopes, see ⇒ *Technical Information '463255 Warranty processing'.*

Parts Info:

Part No.	Designation – Use	Qty.
00004330454	⇒ Brake pads for disc brake – front axle	1 set
971698231A	⇒ Retainer springs – front axle	2 sets
00004330457	⇒ Sender wire – brake pad wear indicator on front axle	2 ea.
WHT004572	⇒ Collared cheese head bolt with hexagon socket head M14 x 1.5 x 135 – brake calliper to wheel bearing housing on front axle	4 ea.

00004330455	⇒ Retaining spring – brake pads to rear-axle brake calliper	2 ea.
N 91183701	⇒ Number of internal screws, M12 x 1.5 x 115 – brake calliper wheel bearing housing on rear axle	4 ea.
00004330456	⇒ Sender wire – brake pad wear indicator on rear axle	2 ea.
971698231A	⇒ Retainer spring – brake pads to brake calliper (rear axle)	2 ea.

Required tools

- Tools:
- Torque wrench, 6 – 50 Nm (4.5 – 37 ftlb.), e.g. **V.A.G. 1331A Torque wrench 6-50 Nm (4.5-37 ftlb.)**
 - Torque wrench, 40 – 200 Nm (29 – 147 ftlb.), e.g. **V.A.G. 1332 Torque wrench, 40 – 200 Nm (29 – 147 ftlb.)**
 - **9472 - Brake piston resetting fixture**
 - **T10439 - Assembly pin**

Replacing PSCB brake pads on front axle and replacing brake pad retainer springs on rear axle (Scope 1)

- Work Procedure: 1 Raise the vehicle on a lifting platform ⇒ *Workshop Manual '4X00IN Lifting the vehicle'*.
- 2 Remove front and rear wheels ⇒ *Workshop Manual '440519 Removing and installing wheel'*.
- 3 Replace front disc brake pads on **both sides** ⇒ *Workshop Manual '463656 Replacing front disc brake pads'*.
- 4 Replace brake pad retainer springs on the rear axle **on both sides**.
The procedure for replacing the brake pad retainer spring is described in the Workshop Manual ⇒ *Workshop Manual '463856 Replacing rear disc brake pads'*.
- 5 Install disc brake pads on the brake discs by pressing the brake pedal several times until the pressure point of the brake pedal has returned to normal.
- 6 Check brake fluid level and correct it if necessary.
For instructions, see ⇒ *Workshop Manual '463856 Changing brake fluid'*.
- 7 Install front and rear wheels ⇒ *Workshop Manual '440519 Removing and installing wheel'*.
- 8 Remove the vehicle from the lifting platform.
- 9 Enter the campaign in the Warranty and Maintenance booklet.

Replace PSCB brake pads on front axle (Scope 2)

- Work Procedure:
- 1 Raise the vehicle on a lifting platform ⇒ *Workshop Manual '4X00IN Lifting the vehicle'*.
 - 2 Remove front wheels ⇒ *Workshop Manual '440519 Removing and installing wheel'*.
 - 3 Replace front disc brake pads on **both sides** ⇒ *Workshop Manual '463656 Replacing front disc brake pads'*.
 - 4 Install disc brake pads on the brake discs by pressing the brake pedal several times until the pressure point of the brake pedal has returned to normal.
 - 5 Check brake fluid level and correct it if necessary.
For instructions, see ⇒ *Workshop Manual '463656 Changing brake fluid'*.
 - 6 Install front wheels ⇒ *Workshop Manual '440519 Removing and installing wheel'*.
 - 7 Remove the vehicle from the lifting platform.
 - 8 Enter the campaign in the Warranty and Maintenance booklet.

Replacing brake pad retainer spring on the rear axle (Scope 3)

- Work Procedure:
- 1 Raise the vehicle on a lifting platform ⇒ *Workshop Manual '4X00IN Lifting the vehicle'*.
 - 2 Remove rear wheels ⇒ *Workshop Manual '440519 Removing and reinstalling wheel'*.
 - 3 Replace rear brake-pad retainer springs **on both sides**.
For instructions, see ⇒ *Workshop Manual '463856 Replacing rear disc brake pads'*.
 - 4 Install disc brake pads on the brake discs by pressing the brake pedal several times until the pressure point of the brake pedal has returned to normal.
 - 5 Check brake fluid level and correct it if necessary.
For instructions, see ⇒ *Workshop Manual '463856 Changing brake fluid'*.
 - 6 Install rear wheels ⇒ *Workshop Manual '440519 Removing and reinstalling wheel'*.
 - 7 Remove the vehicle from the lifting platform.
 - 8 Enter the campaign in the Warranty and Maintenance booklet.

Warranty processing

Scope 1: **Replacing PSCB brake pads on front axle and replacing brake pad retainer springs on rear axle**

Working time:		
Replacing PSCB brake pads on the front axle and replacing brake pad retainer springs on the rear axle		Labor time: 179 TU
Includes:	Raising and lowering the vehicle	
	Removing and installing front and rear wheels	
	Checking brake fluid level	
 Parts required:		
00004330454	⇒ Brake pads for disc brakes	1 set
971698231A	⇒ Retainer springs	2 sets
00004330457	⇒ Sender wire	2 ea.
WHT004572	⇒ Collared cheese head bolt with hexagon socket head, M14 x 1.5 x 135	4 ea.
00004330455	⇒ Retainer spring	2 ea.
N 91183701	⇒ Internal serration screw M12 x 1.5 x 115	4 ea.
00004330456	⇒ Sender wire	2 ea.
971698231A	⇒ Retainer spring — brake pads to brake calliper (rear axle)	2 ea.
⇒ Damage Code WKF8 066 000 2		

Scope 2: **Replace PSCB brake pads on front axle****Working time:**

Replacing brake pads on the front axle

Labor time: **115 TU**

Includes: Raising and lowering the vehicle
 Removing and installing front wheels
 Checking brake fluid level

Parts required:

00004330454	⇒ Brake pads for disc brakes	1 set
971698231A	⇒ Retainer springs	2 sets
00004330457	⇒ Sender wire	2 ea.
WHT004572	⇒ Collared cheese head bolt with hexagon socket head, M14 x 1.5 x 135	4 ea.
971698231A	⇒ Retainer spring — brake pads to brake calliper (rear axle)	2 ea.

⇒ **Damage Code WKF8 066 000 2**Scope 3: **Replacing brake pad retainer springs on rear axle****Working time:**

Replacing brake pad retainer springs on the rear axle

Labor time: **104 TU**

Includes: Raising and lowering the vehicle
 Removing and installing rear wheels
 Checking brake fluid level

Parts required:

00004330455	⇒ Retainer spring	2 ea.
N 91183701	⇒ Internal serration screw M12 x 1.5 x 115	4 ea.
00004330456	⇒ Sender wire	2 ea.

⇒ **Damage Code WKF8 066 000 2**

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