Noise Symptom - Noises From Wheel Assembly on Front / Rear Axle: Follow Special Instructions (SY 148 / 19)

Model line: **918 Spyder**

Model Year: **2015**

Subject: **Wheel assembly on front / rear axle**

Symptom: During and after race track use, loud noises can sometimes come from the wheel assembly on the front/rear axle - particularly on bends and when manoeuvring slowly.

Cause: Particles of dirt on the rim/brake disc/wheel hub contact surfaces can cause micro-movements in the wheel assembly and this can result in a loud noise.

Remedial Action: In the event of a customer complaint, locate the relevant wheel assembly and clean it as described below.

Required tools, spare parts and materials

Tools:
- Microfiber cloth
- Brake cleaner

Parts:

Information

The specified spare parts are for **one** wheel assembly.

Part No.	Designation - Location	Number (per wheel assembly)
91834188100 1)	⇒ Driving journal repair kit, front	1 ea.
91833188100 1)	⇒ Driving journal repair kit, rear	1 ea.
99907357201	⇒ Oval-head screw -Brake disc	2 ea.
99908465601	⇒ Hexagon nut - Brake calliper	2 ea.

1) Replace only if damaged.

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

Part No.	Designation - Location	Qty.
00004302000	⇒ Optimoly TA - Brake disc	100g tube 1)
00004330605	⇒ Mc Lube Sailkote - Wheel	300 ml spray can 2)

[1] approx. 10 grams required for each wheel assembly.

[2] approx. 30 millilitres required for each wheel assembly.

Preparatory work

Work Procedure: 1 Remove wheel and check central wheel lock, see

⇒ *Workshop Manual '440519 Removing and installing wheel'*

⇒ *Workshop Manual '4X00IN Central wheel lock: component assessment'*.

2 Remove brake calliper, see

⇒ *Workshop Manual '473919 Removing and installing front brake calliper'*

⇒ *Workshop Manual '474119 Removing and installing rear brake calliper'*.

3 Remove brake disc, see

⇒ *Workshop Manual '465119 Removing and installing front PCCB brake disc'*

⇒ *Workshop Manual '465419 Removing and installing rear PCCB brake disc'*

4 Check **Subsequent torque 22 Nm (16 ftlb.)** of the wheel driver pins.

- If the pins can still be turned, replace pins and screws and clean the thread and contact surfaces to remove any remaining screw-locking material.
- If the pins cannot be turned, check the driver pins for damage. If there are visible signs of damage, replace pins and screws and clean the thread and contact surfaces to remove any remaining screw-locking material.

Cleaning wheel assembly on front / rear axle

WARNING

Brake cleaner

⇒ **Wear personal protective gear.**

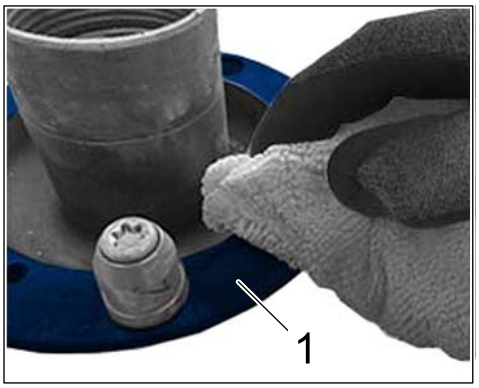
⇒ **Ensure that there is good ventilation.**

⇒ **Avoid contact with brake cleaner.**

Information

Always make sure that the cleaned surfaces are kept clean until assembly is complete.

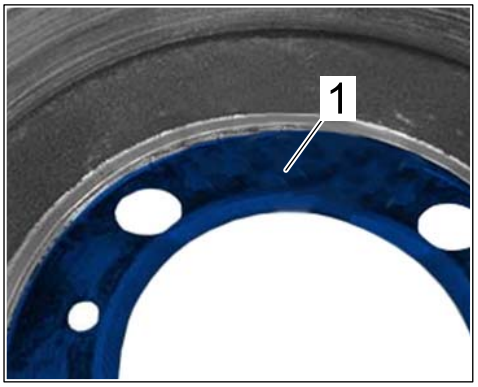
Work Procedure: 1 Spray microfiber cloth with brake cleaner and clean the installed wheel hub ⇒*Cleaning wheel hub* **-1-** thoroughly.



Cleaning wheel hub

2 Spray microfiber cloth with brake cleaner and clean the contact surface of the brake disc/wheel hub ⇒ *Cleaning brake disc* **-1-** thoroughly.

3 Spray microfiber cloth with brake cleaner and clean the contact surfaces of the rim/brake disc ⇒*Cleaning contact surfaces of rim/brake disc* thoroughly.



Cleaning brake disc

Cleaning contact surfaces of rim/brake disc

Concluding work

Work Procedure: 1 Install brake disc, see

⇒ *Workshop Manual '465119 Removing and installing front PCCB brake disc'*

⇒ *Workshop Manual '465419 Removing and installing rear PCCB brake disc'*.

2 Install brake calliper, see

⇒ *Workshop Manual '473919 Removing and installing front brake calliper'*

⇒ *Workshop Manual '474119 Removing and installing rear brake calliper'*.

3 Install wheel, see ⇒ *Workshop Manual '440519 Removing and installing wheel'*.

Invoicing

Information

If the problem persists after working through the Technical Information, create a PRMS ticket and contact the TCC (Technical Competence Centre).

Invoicing: For documentation and invoicing, enter the labor operation, PQIS coding and part numbers specified below:

APOS	Labor operation	I No.
46514901	Reworking front left brake disc	
46514902	Reworking front right brake disc	
46515000	Reworking front brake discs	
46544901	Reworking rear left brake disc	
46544902	Reworking rear right brake disc	
46545000	Reworking rear brake discs	

PQIS coding:

Location (FES5)	42680	Wheel hub
Damage type (SA4)	3015	dirty

Parts Info:

Information

The specified parts are for one wheel assembly.

Part No.	Designation - Location	Number (per wheel assembly)
91834188100 1)	⇒ Driving journal repair kit, front	1 ea.
91833188100 1)	⇒ Driving journal repair kit, rear	1 ea.
99907357201	⇒ Oval-head screw -Brake disc	2 ea.
99908465601	⇒ Hexagon nut - Brake calliper	2 ea.
00004302000	⇒ Optimoly TA - Brake disc	0.05 ea. (= approx. 10 grams)
00004330605	⇒ Mc Lube Sailkote - Wheel	0.10 ea. (= approx. 30 millilitres)

1) Replace only if damaged.

References:

⇒ *Workshop Manual '440519 Removing and installing wheel'*

⇒ *Workshop Manual '4X00IN Central wheel lock: Component assessment'*

⇒ *Workshop Manual '473919 Removing and installing front brake calliper'*

⇒ *Workshop Manual '474119 Removing and installing rear brake calliper'*

⇒ *Workshop Manual '465119 Removing and installing front PCCB brake disc'*

⇒ *Workshop Manual '465419 Removing and installing rear PCCB brake disc'*