

**Noise Symptom - Noise From Rear Axle Wheel Assembly: Follow special instructions (SY 105/18)**

Vehicle Type: **911 GT2 RS/GT3 RS/GT3 (991)**

Model Year: **As of 2014 up to 2019**

Subject: **Wheel assembly on rear axle**

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

Cause: Particles of dirt on the contact surfaces can cause micro-movements in the wheel assembly on the rear axle (rim/brake disc/wheel hub) and this can result in loud noises.

Remedial Action: In the event of a customer complaint, clean the wheel assembly on the rear axle **as described under "Work Procedure"**.

Date of Introduction: Since **June 14, 2018** or as of **chassis number WPOZZZ99ZKS158805**, closer attention has been paid during production to ensuring that there are no particles of dirt on the affected components before fitting them.

- Tools:
- Brass brush
  - Microfibre cloth
  - Brake cleaner

Work Procedure: 1 **Preliminary work:**

- 1.1 Remove wheel and check central wheel lock.  
⇒ *Workshop Manual '440519 Removing and installing wheel with central bolt'*
- 1.2 Remove brake caliper.  
⇒ *Workshop Manual '474119 Removing and installing rear brake calliper'*
- 1.3 Check threaded joint for wheel driver pins for a torque of 22 Nm (16 ftlb.) and then remove brake disc. 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.  
⇒ *Workshop Manual '465319 Removing and installing rear brake disc'*  
⇒ *Workshop Manual '465419 Removing and installing rear PCCB brake disc'*

- 1.4 Check wheel 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.

**⚠ WARNING****Brake cleaner**

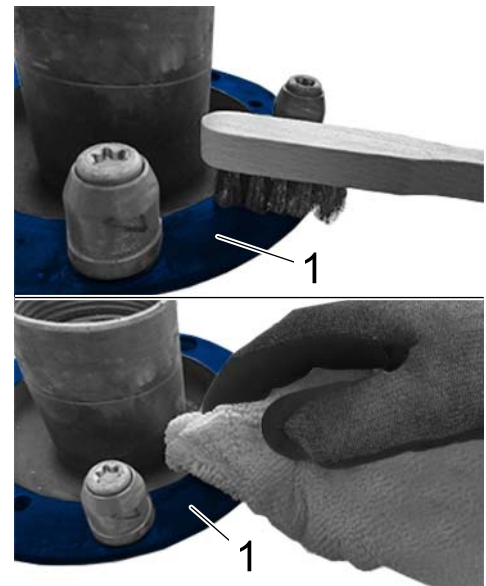
- ⇒ Wear personal protective gear.
- ⇒ Ensure that there is good ventilation.
- ⇒ Avoid contact with brake cleaner.

**Information**

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

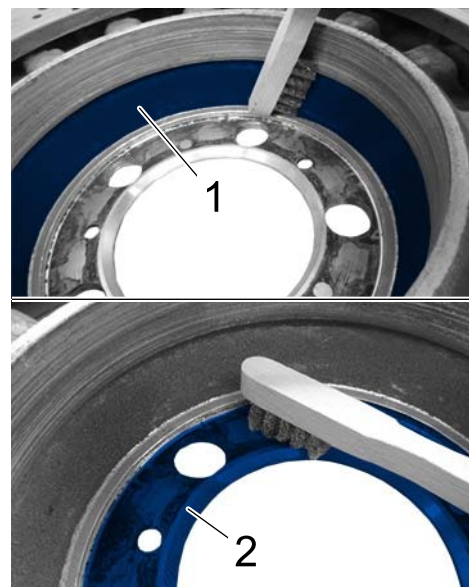
**2 Clean wheel assembly on the rear axle:**

- 2.1 Brush off wheel hub (⇒ *Cleaning wheel hub -1-*) using a brass brush until all particles of dirt have been removed. Then, spray a microfibre cloth with brake cleaner and use it to rub off the wheel hub (⇒ *Cleaning wheel hub -1-*).



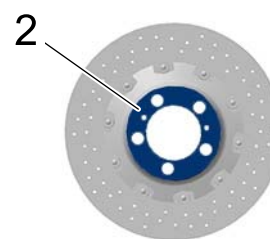
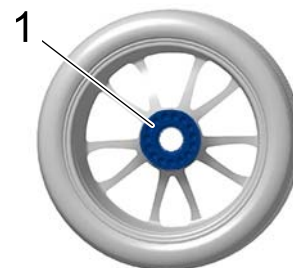
*Cleaning wheel hub*

2.2 Clean brake dust off the inner brake disc hub (⇒ *Cleaning brake disc hub -1-*) and brush off the contact surface between the brake disc and wheel hub (⇒ *Cleaning brake disc hub -2-*) using a brass brush until all particles of dirt have been removed. Then, spray a microfibre cloth with brake cleaner and use it to rub off the cleaned areas.



*Cleaning brake disc hub*

2.3 Clean the contact surfaces between the rim and brake disc (⇒ *Contact surfaces between rim and brake disc -1 and 2-*) using a microfibre cloth and brake cleaner (**do not use a brass brush**).



*Contact surfaces between rim and brake disc*

3 **Subsequent work:**

3.1 Install brake disc.

⇒ *Workshop Manual '465319 Removing and installing rear brake disc'*

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

3.2 Install the brake caliper.

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

3.3 Install wheel.

⇒ *Workshop Manual '440519 Removing and installing wheel with central bolt'*

**End** of action required.

Invoicing: The work involved is invoiced under the labor operation:

APOS	Labour operation	I No.
46534901	Reworking rear left brake disc	
46534902	Reworking rear right brake disc	
46535000	Reworking rear brake discs	

For invoicing and documentation using PQIS, enter the following coding:

<b>Location (FES5)</b>	46531	Rear brake disc mounting
<b>Damage type (SA4)</b>	3015	dirty

References:     ⇒ *Workshop Manual '440519 Removing and installing wheel with central bolt'*  
                   ⇒ *Workshop Manual '474119 Removing and installing rear brake calliper'*  
                   ⇒ *Workshop Manual '465319 Removing and installing rear brake disc'*  
                   ⇒ *Workshop Manual '465419 Removing and installing rear PCCB brake disc'*

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