

**Symptom Exterior – Rattling/Noises from the Rear Area of the Exhaust System: Observe Specified Procedure (SY 68/21)**

Change overview

| Release | Date       | Change   |
|---------|------------|--|
| 0       | 07/07/2021 | <ul style="list-style-type: none"> <li>• First publication</li> </ul>  |
| 1       | 09/05/2023 | <ul style="list-style-type: none"> <li>• Hexagon nut, M5 omitted under "Required parts"</li> <li>• Order types added</li> <li>• Procedure updated</li> <li>• Part numbers updated</li> <li>• Labor operations added</li> </ul> |

Vehicle Type: **Panamera (971) / Panamera 4 (971)**

Model Year: **As of 2017 up to 2020**

Equipment: 3.0-L V6 turbo engine

Concerns: **Actuator for exhaust flap**

Symptom: The customer complains about a rattling or noise from the rear area of the exhaust system. The following entries can be stored in the fault memory of the DME control unit:

- **'P047600 – 'Exhaust flap – signal implausible'**
- **'P04A000 – 'Exhaust flap, bank 2 – signal implausible'**

Cause: The reason for this may be a defective actuator for an exhaust flap.

Remedial Action: Check exhaust flap, see ⇒ *Technical Information 'Checking exhaust flap'* and repair if necessary.

**Preliminary work**

Work Procedure: 1 Remove rear underbody cover. ⇒ *Workshop Manual '519419 Removing and installing rear underbody cover'*

**Checking exhaust flap**

Work Procedure: 1 Does the customer complaint involve a noise?

- Yes, continue with Step 2.
- No, continue with Step 5.

- 2 Check exhaust flap actuator.
  - 2.1 Remove actuator for exhaust flap. ⇒ *Workshop Manual '265119 Removing and installing actuator for exhaust flap'*
  - 2.2 Check exhaust flap actuator for damage.
- Exhaust flap actuator is not damaged: Continue with Step 3.
- Exhaust flap actuator is damaged: Replace exhaust system actuator. ⇒ *Workshop Manual '265119 Removing and installing actuator for exhaust flap'*

#### Required parts for replacement on one side:

| Part No.    | Designation                | Number   |
|-------------|----------------------------|----------|
| 99904903240 | ⇒ Hexagonal plastic nut    | 5 pieces |
| 9A7133246A  | ⇒ Exhaust flap servo motor | 1 piece  |

- 3 Check the exhaust flap mechanism in the exhaust pipe for damage, clearance or blockage.



#### Information

The exhaust flap actuator you removed earlier **must** remain removed during the check. The check is performed manually.

- Exhaust flap mechanism is OK: Continue with Step 4.
- Exhaust flap mechanism is not OK: Replace rear silencer. ⇒ *Workshop Manual '263355 Replacing rear silencer'*

#### Required parts for replacement on one side:

| Part No.    | Designation                     | Number   |
|-------------|---------------------------------|----------|
| 99904903240 | ⇒ Hexagonal plastic nut         | 5 pieces |
| ...         | Clamping sleeve *               | 1 piece  |
| ...         | Rear silencer (left or right) * | 1 piece  |

\* Select the vehicle-specific parts from the Porsche Replacement Parts Catalogue (PET).

- 4 Install exhaust flap actuator. ⇒ *Workshop Manual '265119 Removing and installing actuator for exhaust flap'*
- 5 Connect **9900 - PIWIS Tester 4** to the vehicle and read out the fault memory of the DME control unit.

| Result of check |   | Action   |
|-----------------|---|--|
| (✓)             | <p>One of the following entries is stored in the fault memory of the DME control unit:</p> <ul style="list-style-type: none"> <li>• 'P047600 – 'Exhaust flap – signal implausible'</li> <li>• 'P04A000 – 'Exhaust flap, bank 2 – signal implausible'</li> </ul> | <p><b>Check plug connection for exhaust flap actuator.</b></p> <p>Check the exhaust flap actuator plug for the following points and repair if necessary:</p> <ul style="list-style-type: none"> <li>• Damage to plug, pins and electric lines.</li> <li>• Correct seating of plug and pins.</li> <li>• Corrosion on pins and electric lines.</li> <li>• Risk of short circuit</li> </ul> <p>If all the above components are normal, replace the exhaust flap actuator according to Step 2.2. → <i>Workshop Manual '265119 Removing and installing actuator for exhaust flap'</i></p> |
| (✗)             | <p>None of these entries are stored in the fault memory of the DME control unit.</p>  | <p><b>Repeat the test.</b></p> <p>If there is no noise from the exhaust system and no fault memory entry, the customer's complaint must be checked and readjusted if necessary.</p> <p>If the noise is still not present, the test must be carried out starting with <b>Step 1</b>.</p>  |

### Follow-up actions

Work Procedure: 1 Install the rear underbody cover. → *Workshop Manual '519419 Removing and installing rear underbody cover'*

### Invoicing

Invoicing: For documentation and invoicing for warranty purposes, enter the labor operations specified below in the warranty claim:

| APOS     | Labor operation   | I No. |
|----------|---|-------|
| 26510241 | Checking exhaust flap actuators (without removal)             |       |
| 26510140 | Checking exhaust flap actuator (with left or right removal)   |       |
| 26510240 | Checking exhaust flap actuators (with left and right removal) |       |
| 26515540 | Replacing exhaust flap actuator (left or right)               |       |
| 26515640 | Replacing exhaust flap actuators (left and right)             |       |

| APOS     | Labor operation                          | I No. |
|----------|--|-------|
| 26335540 | Replacing rear silencer (left or right)  |       |
| 26335640 | Replacing rear silencer (left and right) |       |

PQIS coding:

|                          |       |                       |
|--------------------------|-------|-----------------------|
| <b>Location (FES5)</b>   | 26510 | Exhaust flap actuator |
| <b>Damage type (SA4)</b> | 2014  | rattles               |

References:   ⇒ *Workshop Manual '519419 Removing and installing rear underbody cover'*  
                   ⇒ *Workshop Manual '265119 Removing and installing actuator for exhaust flap'*  
                   ⇒ *Workshop Manual '263355 Replacing rear silencer'*  
                   ⇒ *Workshop Manual '263319 Removing and installing rear silencer'*

**Important Notice:** Technical Bulletins issued by Porsche Cars North America, Inc. are intended only for use by professional automotive technicians who have attended Porsche service training courses. They are written to inform those technicians of conditions that may occur on some Porsche vehicles, or to provide information that could assist in the proper servicing of a vehicle. Porsche special tools may be necessary in order to perform certain operations identified in these bulletins. Use of tools and procedures other than those Porsche recommends in these bulletins may be detrimental to the safe operation of your vehicle, and may endanger the people working on it. Properly trained Porsche technicians have the equipment, tools, safety instructions, and know-how to do the job properly and safely. Part numbers listed in these bulletins are for reference only. The work procedures updated electronically in the Porsche PIWIS diagnostic and testing device take precedence and, in the event of a discrepancy, the work procedures in the PIWIS Tester are the ones that must be followed.

© 2023 Porsche Cars North America, Inc.