

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

Model Line: **Panamera (971)**

Model Year: **As of 2017 up to 2021**

Concerns: **Exhaust flap actuator**

Symptom: The customer complains about rattling or noise from the rear area of the exhaust system. The following entries may 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 it as required.

Preparatory work

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

Checking exhaust flap

Work Procedure: 1 Is the customer's complaint connected to the noise?

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

2 Check the exhaust flap actuator.

2.1 Remove the exhaust flap actuator. ⇒ *Workshop Manual '265119 Removing and installing exhaust flap actuator'*

2.2 Check the exhaust flap actuator for damage.

- The exhaust flap actuator is not damaged: Continue with Step 3.
- The exhaust flap actuator is damaged: Replace exhaust system actuator. ⇒ *Workshop Manual '265119 Removing and installing exhaust flap actuator'*

Parts required:

| Part number | Designation | Qty. |
|-------------|--------------------------------|-------|
| 99904903240 | ⇒ Plastic hexagon nut | 5 ea. |
| 9A713324606 | ⇒ Servo motor for exhaust flap | 1 ea. |

- 3 Check the exhaust flap mechanism in the exhaust pipe for damage, play 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.
- The exhaust flap mechanism is not OK: Replace rear silencer. ⇒ *Workshop Manual '263355 Replacing rear silencer'*

Parts required:

| Part number | Designation | Qty. |
|-------------|---------------------------------|-------|
| 99904903240 | ⇒ Plastic hexagon nut | 5 ea. |
| | Clamping sleeve * | 1 ea. |
| | Rear mufflers (right or left) * | 1 ea. |

* Select the vehicle-specific parts using the Porsche Spare Parts Catalogue (PET).

- 4 Install the exhaust flap actuator. ⇒ *Workshop Manual '265119 Removing and installing exhaust flap actuator'*
- 5 Connect **9900 - PIWIS Tester 3** to the vehicle and read out the fault memory of the DME control unit.

| Result of check | | Action required |
|-----------------|---|---|
| (✓) | <p>One of the following entries is stored in the fault memory of the DME control unit:</p> <ul style="list-style-type: none"> • 'P047600 - 'Exhaust flap, signal implausible' • 'P04A000 - 'Exhaust flap, bank 2, signal implausible' | <p>Check plug connection for exhaust flap actuator.</p> <p>Check the plug connection of the exhaust flap actuator for the following points and repair it if necessary:</p> <ul style="list-style-type: none"> • Risk of damage to plug connection, pins and electric lines. • Plug connection and pins are seated correctly. • Corrosion of pins and electric lines. • Risk of short circuit |

| | | |
|-----|--|---|
| | | If all components specified above appear normal, replace the exhaust flap actuator. ⇒ <i>Workshop Manual '265119 Removing and installing exhaust flap actuator'</i> |
| (x) | None of these entries is stored in the fault memory of the DME control unit. | <p>Repeat the test.</p> <p>If there is no noise from the exhaust system and no fault memory entry, the customer's problem must be checked and may have to be simulated.</p> <p>If the noise still cannot be heard, the test must be performed starting with Step 1.</p> |

Concluding work

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

Invoicing

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

| APOS | Labour operation | I No. |
|----------|---------------------------------|-------|
| 26510240 | Checking exhaust flap actuators | |
| 26335551 | Replacing rear silencer | |
| 26335552 | Replacing rear silencer | |
| 26335650 | Replacing rear silencer | |

PQIS coding:

| | | |
|-------------------|-------|-----------------------|
| Location (FES5) | 26510 | Exhaust flap actuator |
| Damage type (SA4) | 2014 | rattles |

Parts Info:

| Part No. | Designation | Qty. |
|-------------|------------------------------|-------|
| 99904903240 | Hexagonal plastic collar nut | 5 ea. |

Only if an exhaust system actuator has to be replaced:

| | | |
|-------------|------------------------------|-------|
| 9A713324606 | Servo motor for exhaust flap | 1 ea. |
|-------------|------------------------------|-------|

Only if a rear silencer has to be replaced:

| | | |
|--------------|---------------------|-------|
| As required. | Rear muffler, right | 1 ea. |
|--------------|---------------------|-------|

or

| | | |
|--------------|--------------------|-------|
| As required. | Rear muffler, left | 1 ea. |
|--------------|--------------------|-------|

and

| | | |
|--------------|-----------------|-------|
| As required. | Clamping sleeve | 1 ea. |
|--------------|-----------------|-------|

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

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