

External Body Symptom - Rear Spoiler (Wing) Jams / Fault Memory Entry in Rear Spoiler Control Unit: Reworking Spoiler Drive (SY 157 / 24)

Model Line: **Panamera Sport Turismo (971)**

Model Year: **As of 2018 up to 2024**

Concerns: **Rear spoiler**

Symptom: **The rear spoiler cannot be retracted and the white warning message "Spoiler fault" is displayed on the instrument cluster; in addition, the "Spoiler extended" function is not available or is greyed out on the central display.**

Two or more of the following fault memory entries are stored in the rear spoiler control unit fault memory:

- **B16F8F0** - Rear spoiler, drive 1, blockage when retracting
- **B16F8F1** - Rear spoiler, drive 1, blockage when extending
- **B16F8F2** - Rear spoiler drive 1, position implausible

Cause: Dirt or tension on the spoiler drive can activate block detection in the rear spoiler control unit. As a result, the rear spoiler adjustment function is deactivated.



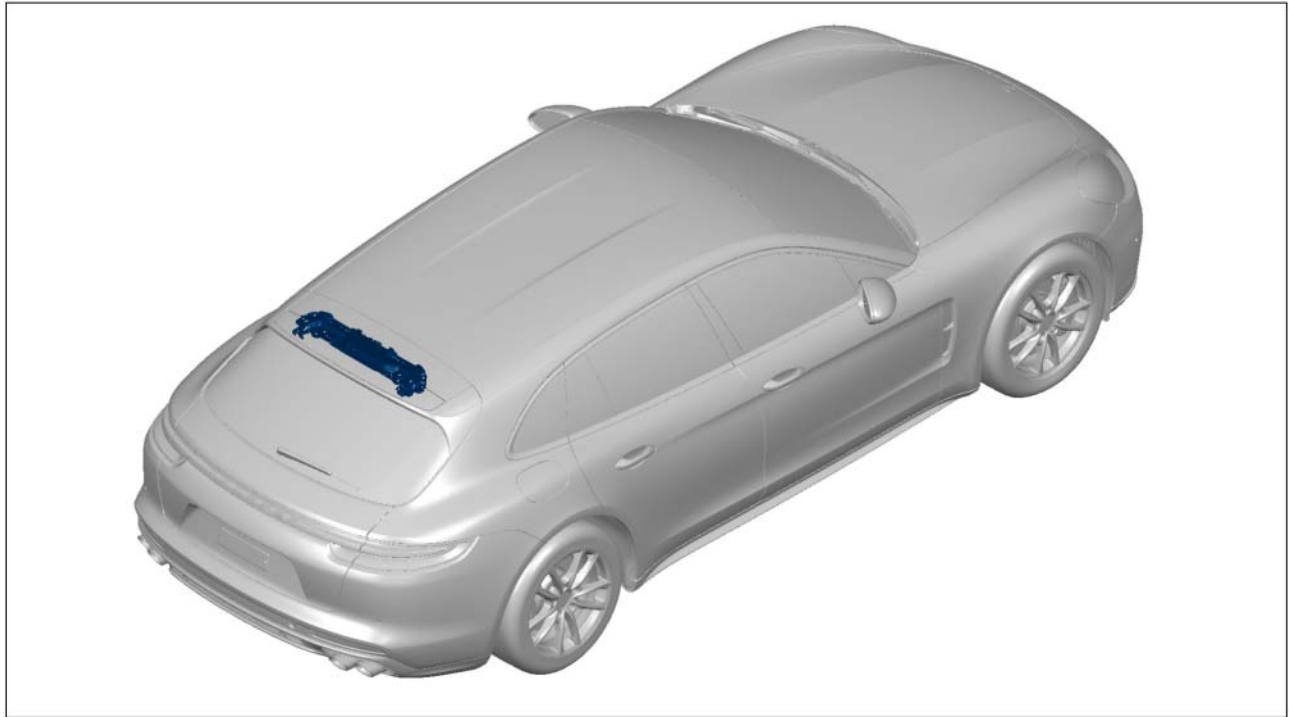
Information

Replacing the spoiler drive will not correct the complaint because this is not a spoiler drive defect.

Remedial Action: In the event of a complaint, rework the spoiler drive.

Installation

Position:

*Spoiler drive installation position***Required parts and materials**

Parts Info:

Part No.	Designation – Location of use	Number
N 10406504	⇒ M6 x 12 internal hexagon round/oval-head screw – Spoiler drive on rear spoiler	7 piece(s)
974898037	⇒ 1 set of spoiler mounting parts – Rear spoiler (wing) on spoiler drive	1 piece(s)
Additional part required if the spoiler drive needs to be replaced:		
974827204G	⇒ Rear spoiler drive unit	1 piece(s)

Materials:

Required materials (usually already available in the Porsche Center)

Part No.	Designation – Location of use	Quantity
V04015004W	⇒ Grease – Rear spoiler decoupling elements	As required
V04015001AG	⇒ Cavity preservative – Sealing surface on rear spoiler Kerb Konus elements	As required

Required tools

- Tools:
- **P90999 - PIWIS Tester 4**
 - Battery charger with a current rating of **at least 90 A**, e.g., **VAS 5908 - 90 A battery charger**. For further information about the battery chargers to be used, see the corresponding Workshop Manual. ⇒ *Workshop Manual '270689 Charging battery and vehicle electrical system'*
 - Torque wrench, 2-10 Nm (2-8 lb-ft), e.g., **V.A.G 1783 - Torque wrench, 2-10 Nm (2-8 lb-ft)**
 - Torque wrench, 6-50 Nm (5-37 lb-ft), e.g. **V.A.G 1331A - torque spanner, 6-50 Nm (5-37 lb-ft)**
 - **VAS 6937 - Adjusting gauge**

Reworking spoiler drive

Work Procedure: 1 Removing spoiler drive.
⇒ *Workshop Manual '66721930 Removing and installing spoiler drive'*

2 Cleaning the spoiler drive.

- 2.1 Clean fastening points and contact surfaces of the rear spoiler connection points on the spoiler drive using suitable methods.
- 2.2 Clean fastening points and contact surfaces of the rear spoiler (wing) connection points on the spoiler drive using suitable methods.
- 2.3 Clean the adjustment mechanism of the spoiler drive using suitable methods.

3 Install spoiler drive.
⇒ *Workshop Manual '66721930 Removing and installing spoiler drive'*



Information

The following must be observed exclusively in action step 3:

- Do not install trim panel for rear lid yet.
- **For the time being, do not replace** microencapsulated screws, use the old screws to install the spoiler drive and rear spoiler (wing).

If the following function test in action step 8 for the rear spoiler is successful, then the microencapsulated screws are replaced.

- 4 Connect and switch on the battery charger.
⇒ *Workshop Manual '270689 Charging battery/vehicle electrical system'*
- 5 Connect the **P90999 - PIWIS Tester 4**, switch on ignition and start the diagnostic application.
- 6 Read out and delete rear spoiler control unit fault memory.
- 7 Standardize spoiler drive.
For work procedure, see: ⇒ *Workshop Manual '667455 Replacing control unit for rear spoiler'*
- 8 Carry out and evaluate rear spoiler function test using **P90999 - PIWIS Tester 4** via drive link diagnosis.

Assessment		Action
(✓)	Drive link diagnosis for rear spoiler was successfully performed.	Rear spoiler function OK . Continue with Step ⇒ 9.
(x)	Drive link diagnosis for rear spoiler was not performed successfully.	Rear spoiler function not OK . Replace spoiler drive. For work procedure, see: ⇒ <i>Workshop Manual '66721930 Removing and installing spoiler drive'</i> End of action.



Information

If there are no more complaints after removal and installation as well as after cleaning the spoiler drive, the clamping was caused by tension and/or contamination in the spoiler adjustment mechanism.

- 9 Replace microencapsulated screws.
 - 9.1 Extend the rear spoiler (wing).
 - 9.2 Remove the rear spoiler.
⇒ *Workshop Manual '665819 Removing and installing rear spoiler'*
 - 9.3 Replace microencapsulated screws **individually and consecutively** on the spoiler drive and rear spoiler (wing).
For work procedure, see:
⇒ *Workshop Manual '66721930 Removing and installing spoiler drive'*
⇒ *Workshop Manual '66581935 Removing and installing rear spoiler (wing)'*
 - 9.4 Install rear spoiler trim panel for rear lid.
⇒ *Workshop Manual '665819 Removing and installing rear spoiler'*

- 10 Exit the diagnostic application. Switch off the ignition. Disconnect the **P90999 - PIWIS Tester 4** from the vehicle.
- 11 Switch off and disconnect the battery charger.
⇒ *Workshop Manual '270689 Charging battery/vehicle electrical system'*

Labor position and PCSS encryption

Labor position:

APOS	Labor operation	I No.
66724945	Cleaning spoiler drive	
66724946	Cleaning and replacing spoiler drive	

PCSS encryption:

Location (FES5)	66720	Spoiler drive
Damage type (SA4)	1711	sluggish, jams, play too small

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