

Front Seat Ventilation Does Not Function: Observe Specified Procedure (66/25)

Model Line: **Taycan (Y1A / Y1B / Y1C)**

Model Year: **As of 2020 up to 2024**

Equipment: Front seat ventilation (**M-No. 4D3**)
Front seat ventilation / massage seats (**M-No. 4D5**)

Concerns: **Front backrest surface seat fan**
Front seat surface seat fan

Cause: **The customer complains that the seat ventilation of the front left or right seat surface or backrest surface do not function.**

Possible customer complaints:

- Seat ventilation cannot be switched on, the pilot lights go off again after one second
- Seat ventilation can be switched on via the seat ventilation button (pilot lights remain on), but a fan does not switch on
- Burning smell under the front seat

The following fault memory entries can be stored in the fault memory of the front-end electronics control unit (BCM1):



Information

The fault memory entries are listed using the "Front left seat ventilation" as an example. Identical entries are also possible for the right side.

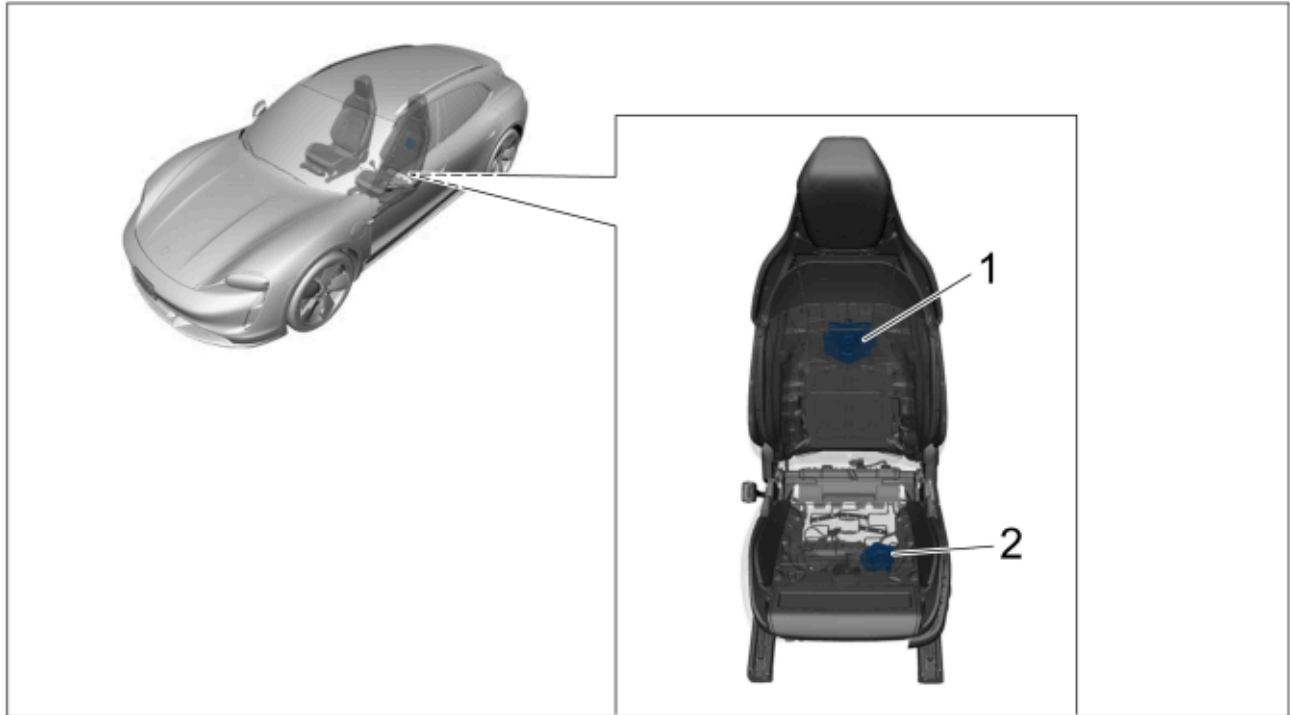
For a general overview of possible fault memory entries, see: ⇒ *Technical Information 'Potential fault memory entries'*

- **B14C931** - Front left seat backrest fan, no communication (010383)
- **B14C907** - Front left seat backrest fan, mechanical fault (010384)
- **B14C94B** - Front left seat backrest fan, temperature too high (010385)
- **B14C929** - Front left seat backrest fan, implausible signal (010388)
- **B14C956** - Front left seat backrest fan, part number implausible (010389)
- **B14CB31** - Front left seat cushion fan, no communication (010399)
- **B14CB07** - Front left seat cushion fan, mechanical fault (010400)
- **B14CB4B** - Front left seat cushion fan, temperature too high (010401)
- **B14CB29** - Front left seat cushion fan, implausible signal (010404)
- **B14CB56** - Front left seat cushion fan, part number implausible (010405)

Action: Check and analyse customer complaint and perform appropriate actions depending on the fault type.

Installation

Location:



Installation location for backrest surface seat fan for and front seat surface seat fan

- 1 – Front backrest surface seat fan
- 2 – Front seat surface seat fan

Required tools



Information

Required tools for the release or replacement of the affected seat fan, which are required for performing the required action, must be determined independently in accordance with the valid Workshop Manual in the PCSS.

Tools:

- **P90999 - PIWIS Tester 4**
- Battery charger with a current rating of **at least 90 A** and a **current and voltage-controlled charge map** for lithium starter batteries, e.g. **VAS 5908 battery charger 90 A**. For further information about the battery chargers to be used, see the corresponding Workshop Manual. ⇒ *Workshop Manual '270689 Charge vehicle electrical system battery'*

Checking and evaluating fault type

- Work Procedure:
- 1 Connect and switch on the battery charger.
⇒ *Workshop Manual '270689 Charging the vehicle electrical system battery'*
 - 2 Connect **P90999 - PIWIS Tester 4**, establish operational readiness (switching on ignition) and start the diagnostic application.
 - 3 Read out fault memory of the front-end electronics control unit (BCM1), evaluate fault memory entries and fault pattern and perform the corresponding action.



Information

The fault memory entries are listed using the "Front left seat ventilation" as an example. Depending on the customer complaint, it involves one or both seat fans of the respective affected seat ventilation (backrest surface seat fan **and / or** seat surface seat fan). Identical entries are also possible for the right side.

Assessment	Action
One or more of the following fault memory entries are stored in the fault memory: ▪ B14C956 - Front left seat backrest fan, part number implausible (010389) ▪ B14C931 - Front left seat backrest fan, no communication (010383) ▪ B14C929 - Front left seat backrest fan, implausible signal (010388) ▪ B14CB56 - Front left seat cushion fan, part number implausible (010405) ▪ B14CB31 - Front left seat cushion fan, no communication (010399) ▪ B14CB29 - Front left seat cushion fan, implausible signal (010404)	Perform recalibration of front seat ventilation. ⇒ <i>Technical Information '270689 Perform recalibration of front seat ventilation'</i>
The customer also complains about a burning smell under the affected front seat. The following fault memory entries are stored in the fault memory: ▪ B14C931 - Front left seat backrest fan, no communication (010383) ▪ B14CB31 - Front left seat cushion fan, no communication (010399)	Replacing affected backrest surface seat fan or front seat surface seat fan ⇒ <i>Technical Information '270689 Replacing affected backrest surface seat fan or front seat surface seat fan'</i>

Optionally also one or more of the following fault memory entries may also be stored: ▪ B14C907 - Front left seat backrest fan, mechanical fault (010384) ▪ B14C94B - Front left seat backrest fan, temperature too high (010385) ▪ B14CB4B - Front left seat cushion fan, temperature too high (010401) ▪ B14CB07 - Front left seat cushion fan, mechanical fault (010400)	
Only the following fault memory entries are stored in the fault memory: ▪ B14C931 - Front left seat backrest fan, no communication (010383) ▪ B14CB31 - Front left seat cushion fan, no communication (010399)	Check fuse of affected seat ventilation and perform further troubleshooting if necessary. ⇒ <i>Technical Information '270689 Checking fuse and performing further troubleshooting if necessary'</i>

Perform recalibration of front seat ventilation

Work Procedure: 1 Recalibrate seat ventilation.



Information

When recalibrating, **all** seat fans of the seat ventilation are automatically retaught.

- 1.1 Select 'Front-end electronics (BCM1)' control unit.
- 1.2 Select the 'Maintenance / repairs' menu.
- 1.3 Perform function 'Calibration of seat ventilation' according to menu guidance.



Information

If the function of the affected seat fan is restored by the recalibration, the action is ended at this point (**continue with Step 5**).

If this is not the case: **Continue with Step 2**.

- 2 Expose affected seat fan.
For procedure, see:
⇒ *Workshop Manual '741619A2 Removing and installing backrest surface suction fan'*
or
⇒ *Workshop Manual '740919A4 Removing and installing front seat surface suction fan'*
- 3 Check wiring of the affected seat fan for damage.

Assessment		Action
(✓)	Wiring of affected seat fan is OK.	Replace affected seat fan. For procedure, see: ⇒ Workshop Manual '741619A2 Removing and installing backrest surface suction fan' or ⇒ Workshop Manual '740919A4 Removing and installing front seat surface suction fan' Then continue with Step ⇒ 5.
(x)	Wiring of affected seat fan is not OK.	Repair wiring and check seat ventilation again. Then continue with Step ⇒ 4.

- 4 Complete affected seat fan.
⇒ Workshop Manual '741619A2 Removing and installing backrest surface suction fan'
- 5 Read out and erase all **fault memories**.
- 6 Exit the diagnostic application. End operational readiness (switch off ignition). Disconnect **P90999 - PIWIS Tester 4** from the vehicle.
- 7 Switch off and disconnect the battery charger.
⇒ Workshop Manual '270689 Charge vehicle electrical system battery'

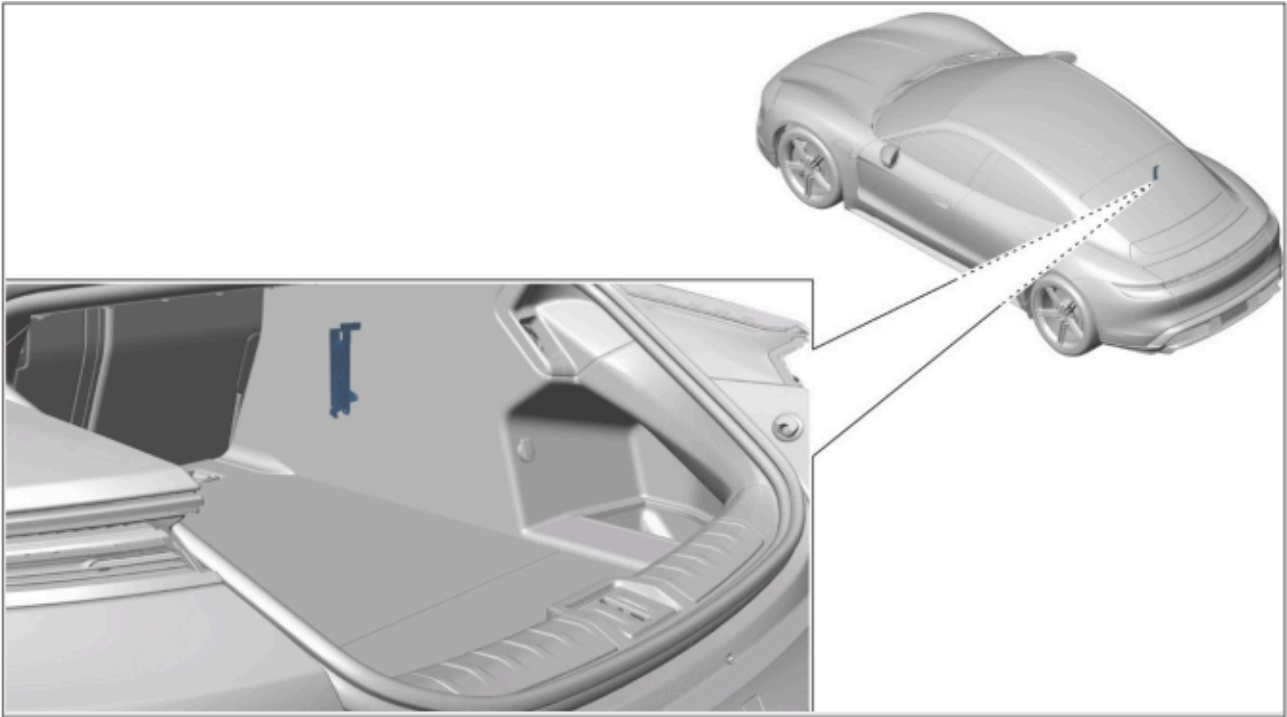
End of action.

Replace affected seat fans in backrest surface or front seat surface

- 1 Replace affected seat fan.
For procedure, see:
⇒ Workshop Manual '741619A2 Removing and installing backrest surface suction fan'
or
⇒ Workshop Manual '740919A4 Removing and installing front seat surface suction fan'
- 2 Check fuse for affected front seat ventilation (left **or** right) for damage and replace if necessary.

**Information**

The potentially affected fuses (a total of 2 units; for front left seat ventilation and front right seat ventilation) **are located on fuse holder M, fuse position 1 (front left seat ventilation) or 2 (front right seat ventilation).**



Fuse holder M

- 3 Read out and erase all **fault memories**.
- 4 Exit the diagnostic application. End operational readiness (switch off ignition). Disconnect **P90999 - PIWIS Tester 4** from the vehicle.
- 5 Switch off and disconnect the battery charger.
⇒ *Workshop Manual '270689 Charging the vehicle electrical system battery'*

End of action.

Check fuse of affected seat ventilation and perform further troubleshooting if necessary

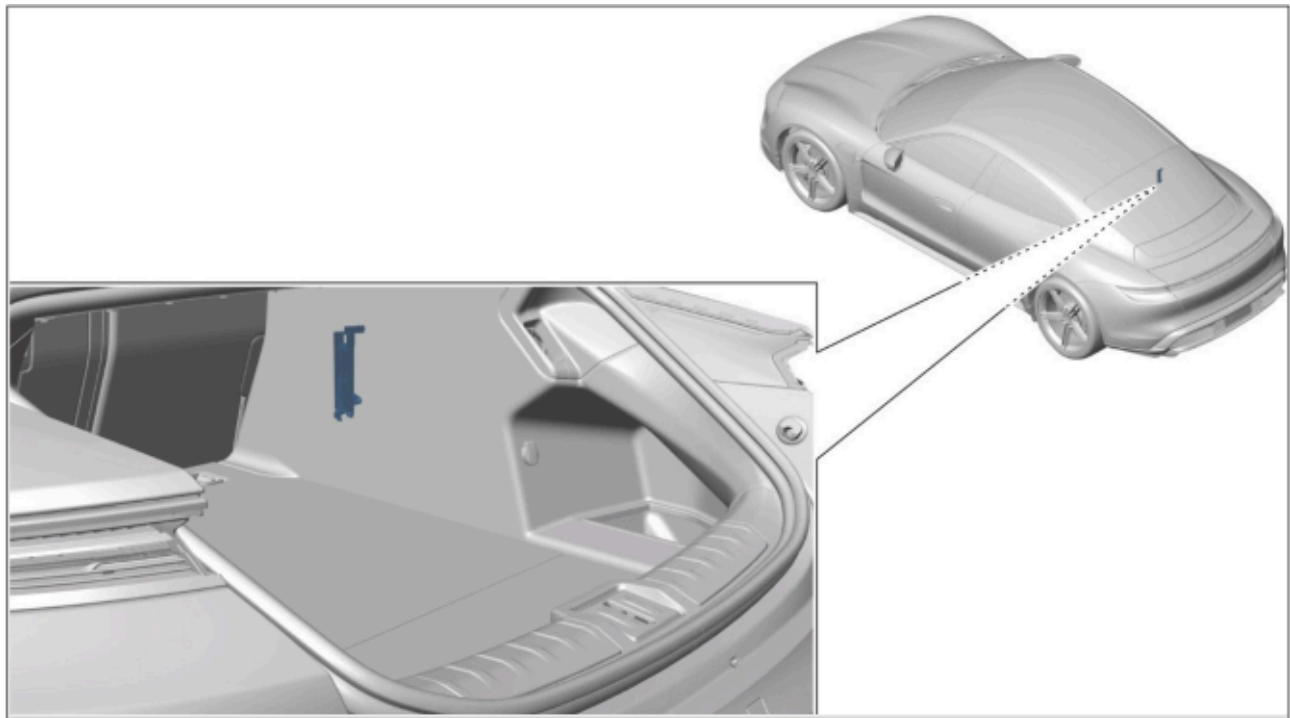
**Information**

The procedure is described on one side as an example. The procedure on the other side is almost identical.



Information

The potentially affected fuses (a total of 2 units; for front left seat ventilation and front right seat ventilation) are located on fuse holder M, fuse position 1 (front left seat ventilation), or 2 (front right seat ventilation).



Fuse holder M

- Work Procedure: 1 Check fuse for affected front seat ventilation (left **or** right) for damage and replace if necessary.
- 2 Check the function of the affected seat ventilation again.



Information

If the fuse for the affected front seat ventilation is defective again after the functional test, there is a short circuit (**continue with Step 3**).

If the function is restored after replacing the fuse, the action is ended at this point (**continue with Step 6**).

- 3 Expose affected seat fan.
For procedure, see:
⇒ Workshop Manual '741619A2 Removing and installing backrest surface suction fan'
or
⇒ Workshop Manual '740919A4 Removing and installing front seat surface suction fan'
- 4 Disconnect electric plug connection of the affected seat fan, insert fuse again, establish operational readiness (switching on ignition) and switch on affected seat ventilation.

As a result, the defect or cause of the electrical short circuit is located.

Assessment		Action
(✓)	The fuse is not damaged or defective.	Affected seat fan not OK. Replace affected seat fan. For procedure, see: ⇒ Workshop Manual '741619A2 Removing and installing backrest surface suction fan' or ⇒ Workshop Manual '740919A4 Removing and installing front seat surface suction fan' Then continue with Step ⇒ 6.
(x)	The fuse is damaged or defective.	Wiring of the affected seat ventilation not OK. End operational readiness (switch off ignition). Check wiring, repair and replace fuse again. Plug in electric plug connection of the affected seat fan and then repeat Step ⇒ 2; then continue with Step ⇒ 5.

- 5 Complete affected seat fan.
⇒ Workshop Manual '741619A2 Removing and installing backrest surface suction fan'
or
⇒ Workshop Manual '740919A4 Removing and installing front seat surface suction fan'
- 6 Read out and erase all **fault memories**.
- 7 Exit the diagnostic application. End operational readiness (switch off ignition). Disconnect **P90999 - PIWIS Tester 4** from the vehicle.
- 8 Switch off and disconnect the battery charger.
⇒ Workshop Manual '270689 Charging the vehicle electrical system battery'

End of action.

Potential fault memory entries

Affected component	Fault text	Fault code / fault indicator
Front left seat fan backrest surface	Front left seat backrest fan, no communication	B14C931 / (010383)
	Front left seat backrest fan, mechanical fault	B14C907 / (010384)
	Front left seat backrest fan, temperature too high	B14C94B / (010385)
	Front left seat backrest fan, implausible signal	B14C929 / (010388)
Front left seat surface fan	Front left seat cushion fan, no communication	B14CB31 / (010399)
	Front left seat cushion fan, mechanical fault	B14CB07 / (010400)
	Front left seat cushion fan, temperature too high	B14CB4B / (010401)
	Front left seat cushion fan, implausible signal	B14CB29 / (010404)
	Front left seat cushion fan, part number implausible	B14CB56 / (010405)
Front right backrest surface seat fan	Front right seat backrest fan, no communication	B14CD31 / (010415)
	Front right seat backrest fan, mechanical fault	B14CD07 / (010416)
	Front right seat backrest fan, temperature too high	B14CD4B / (010417)
	Front right seat backrest fan, implausible signal	B14CD29 / (010420)
	Front right seat backrest fan, part number implausible	B14CD56 / (010421)

Front right seat surface seat fan	Front right seat cushion fan, no communication	B14CF31 / (010431)
	Front right seat cushion fan, mechanical fault	B14CF07 / (010432)
	Front right seat cushion fan, temperature too high	B14CF4B / (010433)
	Front right seat cushion fan, implausible signal	B14CF29 / (010436)
	Front right seat cushion fan, part number implausible (010437)	B14CF56 / (010437)

Labor position and PCSS encryption

Labor position:

APOS	Labor operation	I No.
74160140	Checking front seat backrest fan	
74160141	Checking front seat backrest fan	
74160142	Checking front seat backrest fan	
74160143	Checking front seat backrest fan	
74160144	Checking front seat backrest fan	
74160145	Checking front seat backrest fan	
74160146	Checking front seat backrest fan	

PCSS encryption:

Location (FES5)	74160	Backrest surface suction fan
Damage type (SA4)	1611	not functioning

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