

Symptom Lighting - White message in Instrument Cluster "Auxiliary Brake Light (3rd Brake Light) Defective" - Comply With Test Instruction (SY 67/25)

Vehicle Type: **Taycan (Y1A)**
Taycan 4 (Y1A)

Model Year: **As of 2021**

Equipment: Sports saloon **(M-No. K8S)**

Concerns: **Auxiliary brake light**

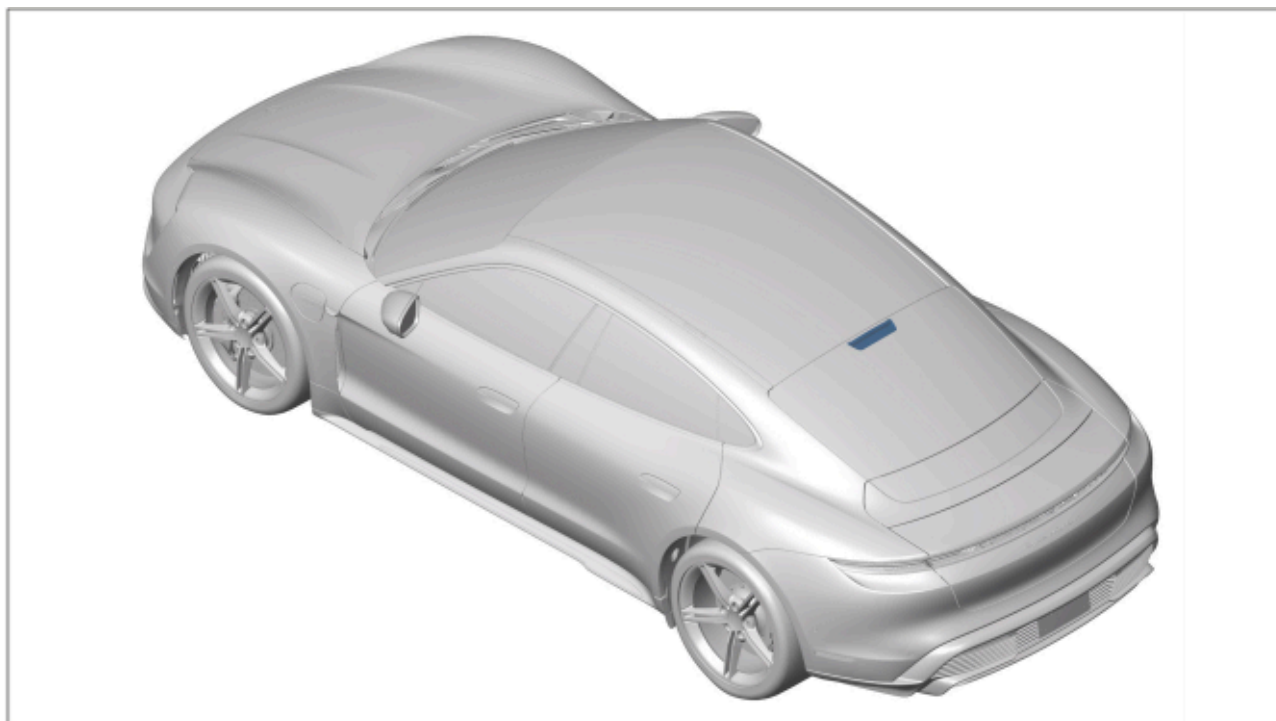
Symptom: **The customer complains about a white message in the "Auxiliary brake light" instrument cluster.**
In the fault memory of the control unit for the rear-end electronics (BCM2), **one of the following fault memory entries** is stored:

- **B12C615** - Rear lid auxiliary brake light, short circuit to positive or open circuit (09F904)
- **B12C611** - Rear lid auxiliary brake light, short circuit to ground (09F902)

Cause: The fault can occur due to various fault sources in the auxiliary brake light circuit.
Replacing the auxiliary brake light is **not necessarily** effective.

Action: If there is a customer complaint, check the control of the auxiliary brake light and the auxiliary brake light.

Installation
location:



Installation location of auxiliary brake light

Required parts and materials as needed



Information

For checking the auxiliary brake light, **no** parts are required.

Parts Info:

Part no.	Designation – Location of use	Quantity
Required parts for vehicles where the auxiliary brake light has a defect.		
9J1945211E*	⇒ Raised brake light – Rear window	1 unit
or		
9J1945087E*	⇒ Raised brake light – Rear window	1 unit

Required parts for vehicles where the rear window has a defect.

9J1845051xx*	⇒ Rear window	1 unit
PAD004660	⇒ 2-component window adhesive set – Rear window	1 unit

*Determine the variant required for the respective vehicle using the vehicle identification number in the Porsche Spare Parts Catalogue (PET2).

Material: **Required material** for vehicles where the rear window has a defect (usually already available in the Porsche Center):

Part no.	Designation – Location of use	Quantity
D00940104	⇒ Cleaning solution – Rear window	Quantity as required (max. 1 unit)
PAD181220	⇒ Primer – Rear window	Quantity as required (max. 1 unit)
D181802M1	⇒ Activator – Rear window	Quantity as required (max. 1 piece)
9A700950000	⇒ Applicator – Rear window	Quantity as required (max. 1 unit)
00004330332	⇒ Cutting wire for loosening glass panes – Rear window	Quantity as required (max. 1 piece)

Required tools

- Tools:
- Standard measuring connection cable for external power supply of lights, e.g. **9684/3 - MLK measuring cable 1.2**
 - External 12-volt power supply for external power supply, e.g. **commercially available 12-volt battery**
 - Commercial available multimeter, e.g. **V.A.G 1526E - hand multimeter**

Additional tool required for vehicles where the rear window has a defect:

- scraper, e.g. **commercially available scraper (U-shape)**

Testing auxiliary brake light and analysing fault source

- 1 If operational readiness was previously established (ignition switched on): End operational readiness (switch off ignition).
- 2 Pull out fuse for auxiliary brake light and check for damage.

Test criteria:

- Defective/burnt out
- Correctly plugged in
- Contact of the fuse OK



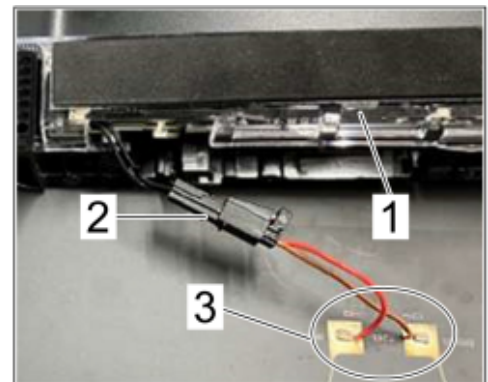
Information

The potentially affected fuse of the auxiliary brake light **is located behind the luggage compartment trim, storage compartment cover, on the right (to the side)**. The fuse assignment can vary due to the equipment.

The corresponding fuse assignment must be determined with the affected VIN in the PCSS.

Assessment		Action
(✓)	Fuse is not damaged.	Fuse OK. Continue with Step ⇒ 3.
(✗)	Fuse is damaged.	Fuse not OK. Repair damage or replace fuse and check function of auxiliary brake light again. Function restored: Perform Steps⇒ 11 and ⇒ 12, end of action. Function not restored: Continue with Step ⇒ 3.

- 3 Remove auxiliary brake light ⇒ *Checking auxiliary brake light connection -1-*, check electric plug connection ⇒ *Checking auxiliary brake light connection -2-* and soldering points ⇒ *Checking auxiliary brake light connection -3-* for damage and correct locking.
⇒ *Workshop Manual '947019A8 Removing and installing auxiliary brake light'*
- 4 Test electric lines (cable lines) from soldering points ⇒ *Checking auxiliary brake light connection -3-* to electric plug connection for auxiliary brake light for ⇒ *Checking auxiliary brake light externally -2-* continuity or resistance.



Checking auxiliary brake light connection

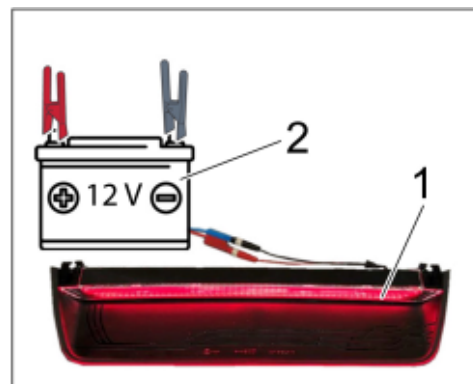
**Information**

If one or more of these lines (cable lines) have an optical or metrological defect, they can be repaired by replacing the cable.

Replacing additional components is not expedient until the following test instruction is completed.

Assessment		Action
(✓)	Electric plug connection and electric lines of the auxiliary brake light are OK.	Continue with Step ⇒ 5.
(✗)	Electric plug connection and / or electric lines (cable lines) of the auxiliary brake light not OK.	Repair electric plug connection and / or electric lines or lock correctly, reconnect auxiliary brake light and check. Function restored: Perform Steps⇒ 10 to ⇒ 12, end of action. Function not restored: Continue with Step ⇒ 5.

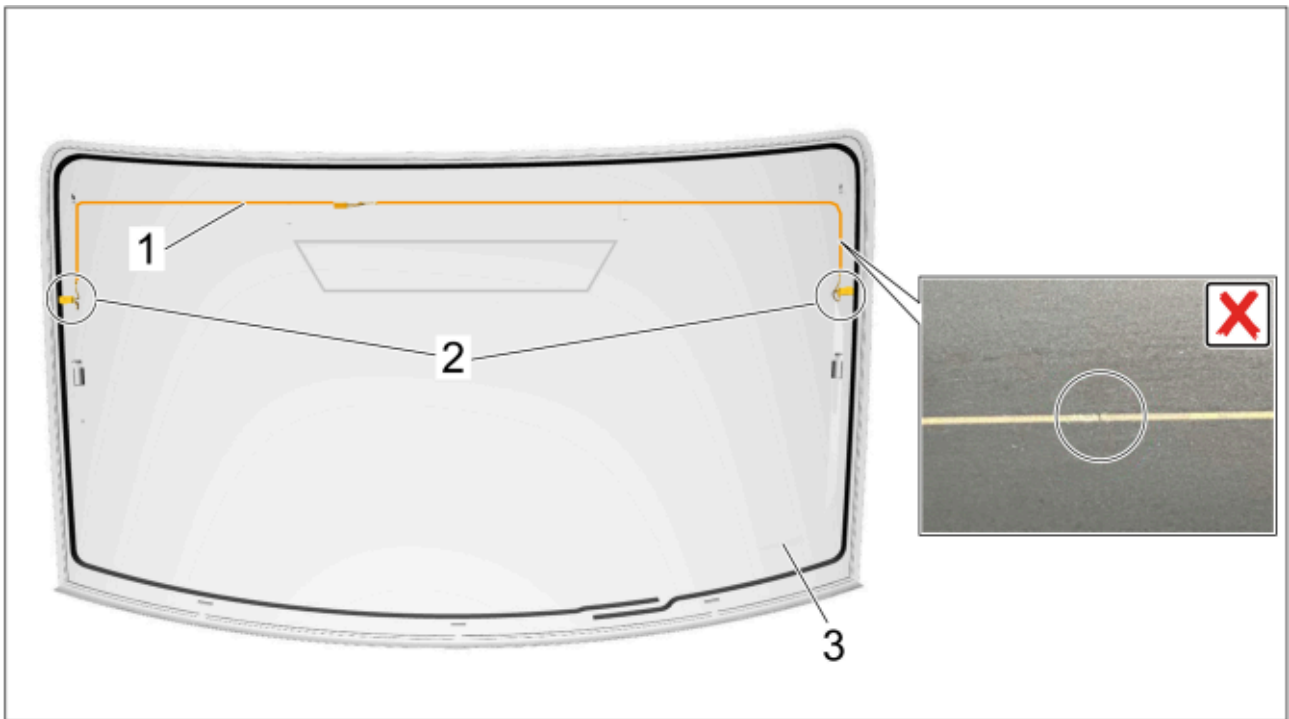
- 5 Check the function of the auxiliary brake light ⇒
Checking auxiliary brake light externally -1- using an external power supply, for example using a 12 volt battery ⇒ *Checking auxiliary brake light externally -2-*.



Checking auxiliary brake light externally

Assessment		Action
(✓)	Auxiliary brake light lights up.	Auxiliary brake light OK. Continue with Step ⇒ 6.
(✗)	Auxiliary brake light is not on.	Auxiliary brake light defective. Replace auxiliary brake light. For procedure, see: ⇒ Workshop Manual '947019A8 Removing and installing auxiliary brake light' After repair, carry out Steps⇒ 11 and ⇒ 12, end of the action.

- 6 Remove C-pillar trim (upper part) on the left and right.
⇒ *Workshop Manual '706819A1 Removing and installing C-pillar trim (upper part)'*
- 7 Check electric lines for auxiliary brake light ⇒ *Checking electric lines and plug connections for auxiliary brake light -1-* and electric plug connections for auxiliary brake light ⇒ *Checking electric lines and plug connections for auxiliary brake light -2-* on rear window ⇒ *Checking electric lines and plug connections for auxiliary brake light -3-* for damage and/or correct locking.



Checking electric lines and plug connections for auxiliary brake light

- 8 Check electric lines (cable lines) from electric lines for auxiliary brake light ⇒ *Checking electric lines and plug connections for auxiliary brake light -1-* to electric plug connections for auxiliary brake light ⇒ *Checking electric lines and plug connections for auxiliary brake light -2-* for continuity and/or resistance.

**Information**

If one or more of these lines (cable lines) have an optical or metrological defect, they can be repaired by replacing the cable.

Replacing additional components is not expedient until the following test instruction is completed.

Assessment		Action
(✓)	Electric lines and plug connections for auxiliary brake light on the rear window are not damaged.	Electric lines on rear window OK. There is a problem with the supply lines outside the rear window. Continue troubleshooting there, after repair, perform Steps ⇒ 9 to ⇒ 12, end of action.
(X)	Electric lines for auxiliary brake light on the rear window are damaged.	Electric lines on rear window not OK. Replacing rear window. For procedure, see: ⇒ <i>Workshop Manual '648619A7 Removing and installing rear window'</i> After repair, perform Steps ⇒ 11 and ⇒ 12, end of the action.
(X)	Electric plug connection and / or electrical lines (cable lines) for auxiliary brake light on rear window not OK.	Repair or lock electric plug connection correctly, reconnect auxiliary brake light and test. Function restored: Continue with Step ⇒ 9. Function not restored: Continue troubleshooting in another way, perform Steps ⇒ 9 to ⇒ 12 after repair, end of action.

- 9 Install C-pillar trim (upper part) on the left and right.
⇒ *Workshop Manual '706819A1 Removing and installing C-pillar trim (upper part)'*
- 10 Install auxiliary brake light.
⇒ *Workshop Manual '947019A8 Removing and installing auxiliary brake light'*
- 11 Read out all **fault memories**, process and delete existing faults if necessary.
- 12 Exit the diagnostic application. Switch off ignition. Disconnect **P90999 - PIWIS Tester 4** from the vehicle.

Labor position and PCSS encryption

Labor position:

APOS	Labor operation	I No.
94700140	Check auxiliary brake light (fuse not OK)	
94700141	Check auxiliary brake light (electric lines / electric plug connection of auxiliary brake light or auxiliary brake light not OK)	
94700142	Check auxiliary brake light (electric lines / electric plug connection of auxiliary brake light or auxiliary brake light not OK)	
94700143	Check auxiliary brake light (electric lines on rear window not OK)	

PCSS encryption:

Location (FES5)	94700	Auxiliary brake light
Damage type (SA4)	1611	not functioning

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