

G2.II Panamera - Exclusive Design Taillight Faulty

Vehicles Affected

Models	Model Year	Model Type	VIN Range	Vehicle-Specific Equipment
Panamera	As of 2021 up to 2024	971	All	8VQ - Exclusive Design Taillight

Revision History

Revision	Release Date	Changes
0	February 18, 2026	Original document

Condition

The customer states the taillights exhibit limited function in part (Figure 1) or in full (Figure 2), accompanied by an instrument cluster message pertaining to , "Tail light faulty".



Figure 1

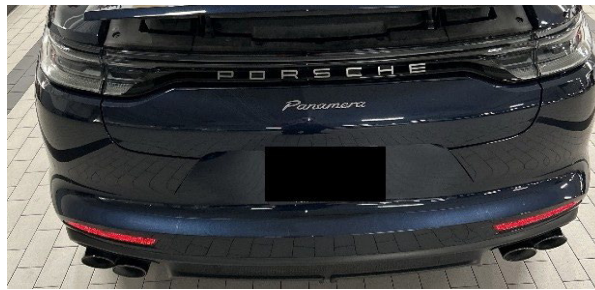


Figure 2

The warning in the instrument cluster may be intermittent and may occur when the taillights appear fully functional.

Vehicles exhibiting this condition typically display a message, "tail light faulty" as shown in Figure 3 or Figure 4. In cases where there are functionality issues in multiple tail lights, a "several rear lights faulty" display message may also be present (Figure 5).



Figure 3



Figure 4

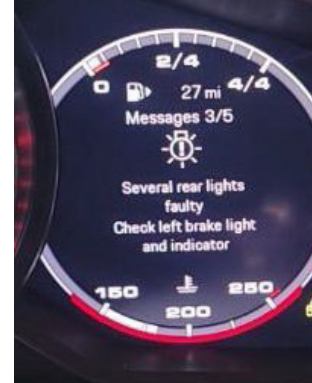


Figure 5

In some cases, the following fault codes are present in the rear-end electronics (BCM2):

"B16D513 - Center left tail light open circuit"

"B16D713 - Center right tail light open circuit"

"B16D5F2 - Center left tail light marker light defective"

"B16D7F2 - Center right tail light marker light defective"

Technical Background

The condition described above can occur if the vehicle is exposed to excessive ambient heat. For example, vehicles that are operated in warmer climates may be more susceptible to this condition.

Service Information

If the condition described above is found in vehicles equipped with the Exclusive Design Taillight (I-Number 8VQ), it will be necessary to retrofit the standard taillight, as the design and shape correspond to the Exclusive Design Taillight.

Proceed as follows:

1. Please provide customer with a copy of the letter located on the following PPN page:
<https://ppn.porsche.com/portal/docs/DOC-593224>
2. Follow instructions on page 3 to retrofit Standard Taillights in place of the Exclusive Design Taillights

Required parts:

Part Number	Quantity	Description
971.945.095.AF	1	Taillight, driver side
971.945.096.AF	1	Taillight, passenger side
971.945.093.AM	1	Taillight, center
4H0.973.713.F	2	6-pin connector
4H0.973.713.E	1	6-pin connector
4H0.973.713	1	6-pin connector
000.979.025.EC	1	Repair wire 0.5 mm ²
000.979.034.EC	1	Repair wire 0.5 mm ²
000.979.035.EC	1	Repair wire 0.5 mm ²
000.979.981.B	1	Repair wire spool

Suggested tools for connectors and pins:

Tool	Description
VAS1978/16	Release tool flat plug-in system 2 latching tongue
VAS1978/17	Release tool secondary locking

Please refer to the steps below to complete the retrofit:

1. Preliminary work (Figure 6 & 7)

Reference relevant workshop manual documentation for removal of the following components:

- Taillights (center and left/right)
- Rear lid trim panel and rear apron/bumper cover
- Luggage compartment trim panels (center, side, and lock carrier)
- Rear lock carrier cover
- Rear luggage compartment side trim panel
- C-pillar (upper) and D-pillar trim panels
- Subwoofer (BOSE® system) and tire sealant/compressor (if equipped)
- Retaining bar for electrical system battery



Figure 6. Rear End Prepared for Rework

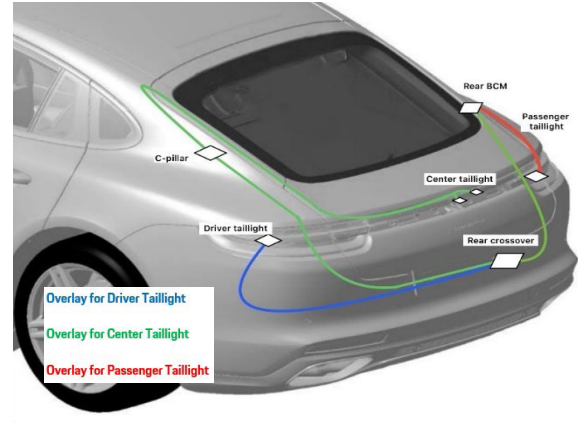


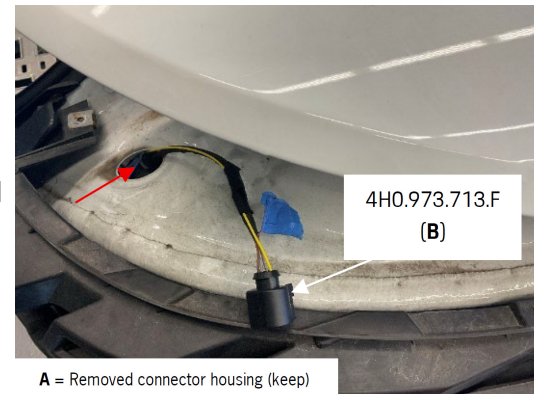
Figure 7. Overview of Overlays

2. Routing and connecting electric wire harnesses

2.1 Route overlay for passenger-side taillight

2.1.1 Route through taillight area, passenger side (Figure 8)

1. Carefully loosen the grommet on the wire harness and slide it towards the taillight connector.
2. Carefully feed overlay wire with single-wire seal through the grommet and guide it to the taillight connector.
3. Remove pin 3 (LIN) and insulate pin using insulating tape.
4. Replace the connector housing (A) with a new connector housing B (4H0.973.713.F), keeping all pins in their original location apart from the removed LIN line. Keep A for a future step.
5. Insert overlay wire into pin location 6.
6. Move rubber plug from pin 6 to pin 3.
7. Install grommet in the body. Check that the grommet is seated correctly in body, as seen in Figure 8.



A = Removed connector housing (keep)

Figure 8. Passenger Taillight Area

2.1.2 Route overlay wire from passenger taillight to Rear BCM (Figure 9)

1. Remove brown connector from Rear BCM and open it.
2. Insert overlay wire with pin contact into pin A1 at brown connector.
3. Close brown connector and install in Rear BCM.

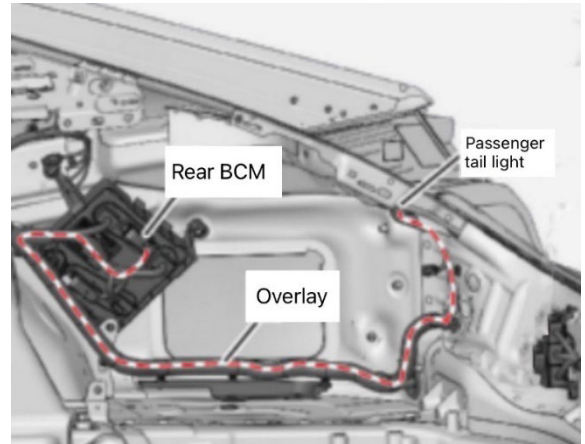


Figure 9. Overlay Routing on Passenger Side

2.2 Route overlay for driver-side taillight

2.2.1 Repeat steps in 2.1.1 on the driver's side

1. Connector C is removed (keep for future step).
2. Connector D is installed (4H0.973.713.F).

2.2.2. Route to rear crossover wconnection point area (Figure 10)

1. Route overlay along the wire harness to the rear crossover connection point.
2. Insert overlay into pin 11 at crossover.

Note: The remainder of this circuit already exists on the mating connector. No further action is needed to complete circuit.

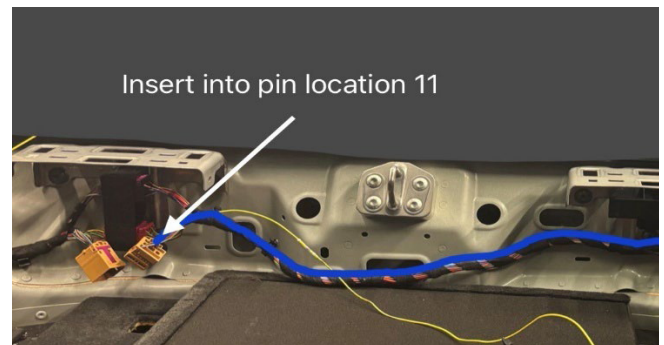


Figure 10. Rear Crossover Overlay

2.3 Route overlay for center taillight

2.3.1 Route to Taillight area in rear lid (Figures 11)

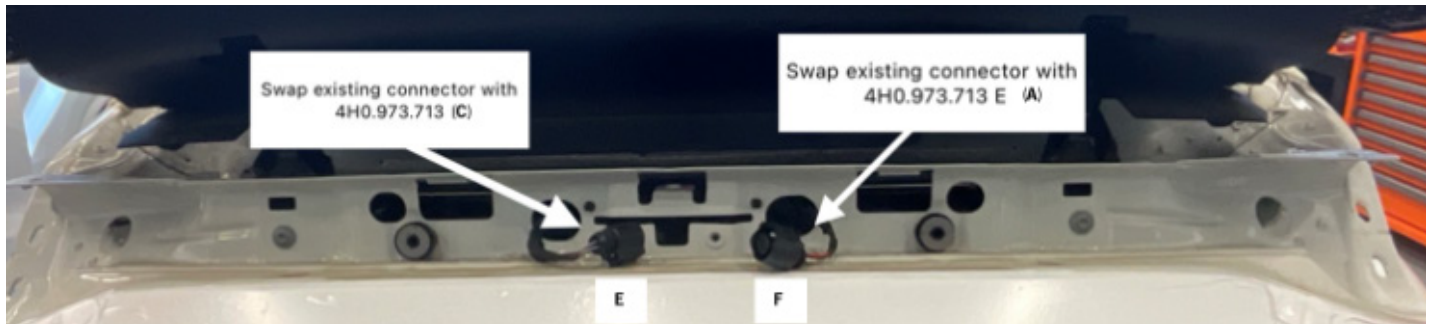


Figure 11. Center Taillight Area

1. Per Figure 11, swap the current connector on the center taillight (E) with C from the driver-side outer taillight (4H0.973.713)
2. Swap the current connector on the center taillight (F) with A from the passenger-side outer taillight (4H0.973.713.E)
3. Disconnect wire harness for center taillight on the rear lid and loosen grommet from the body.
4. Carefully guide overlay wire through the driver side grommet in the rear lid.
5. Insert overlay wire into pin 6 on connector C (4H0.973.713).
6. Carefully reinstall grommet in rear lid.

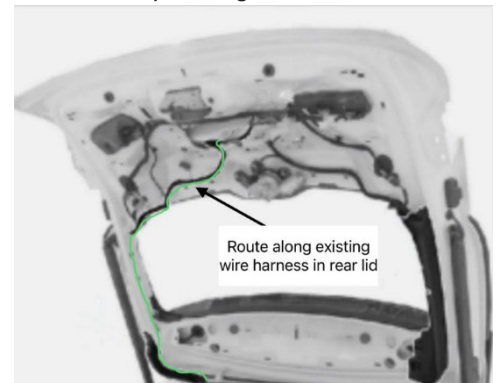


Figure 12. Rear Lid Harness Area

2.3.2 Route along rear lid harness (Figure 12)

1. Route overlay wire along the existing harness wiring sleeve.
2. Tape/secure overlay to prevent chafing or damage.

2.3.3 Route wiring through sleeve on the Driver Side (Figure 13)

1. Locate and loosen sleeve on driver-side tailgate hinge from the body/rear lid.
2. Carefully guide overlay wire through the sleeve using suitable tool.
3. Reinstall sleeve.

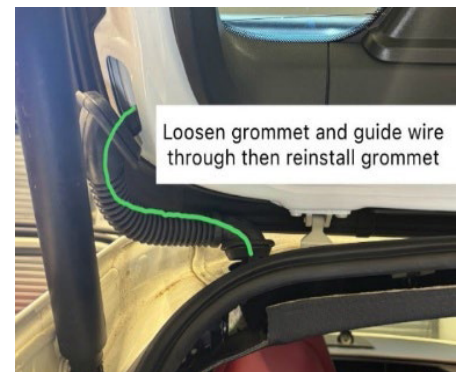


Figure 13. Wiring Sleeve Between Body and Rear Lid

2.3.4 Rear lid connection point area, driver-side c-pillar (Figure 14)

1. Route overlay wire with pin contact along the wire harness to the connection point at the C-pillar.
2. Remove the black, 17-pin connector socket from the holder.
3. Insert overlay wire with pin contact into pin 13 of the black connector.
4. Continue overlay on the mating connector – Pin 13 of the black connector.
5. Lock male and female connector socket and reinstall.

Insert into pin location 13 on female and male connectors

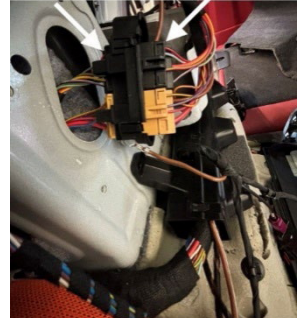


Figure 14. Driver-side C-Pillar Connector

2.3.5 Driver-side trunk area routing (Figure 15)

1. Guide overlay along existing body harness towards the rear of the vehicle.
2. Continue overlay along the harness, following the routing along the trunks edge to the rear crossover connection point.



Figure 15. Driver-side Trunk Area Routing

2.3.6 Rear crossover connection point (Figure 16 & 17)

1. At the rear crossover connection point (brown connector), insert overlay into pin 13 of the male side.
2. Continue overlay by inserting overlay wire into pin 13 of the female connector (Figure 17) then run along the existing harness to BCM2.
3. Route overlay and insert into pin B6 (black connector) at BCM2.

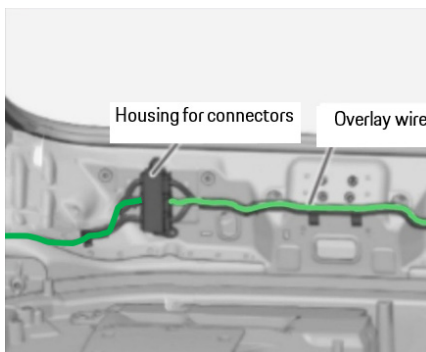


Figure 16. Goes to Rear

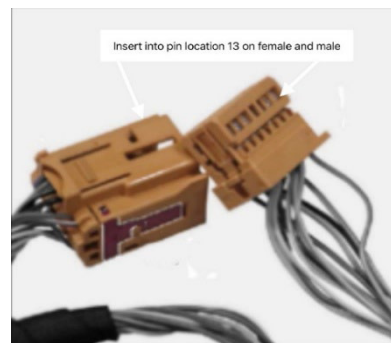


Figure 17. Rear Crossover Connector

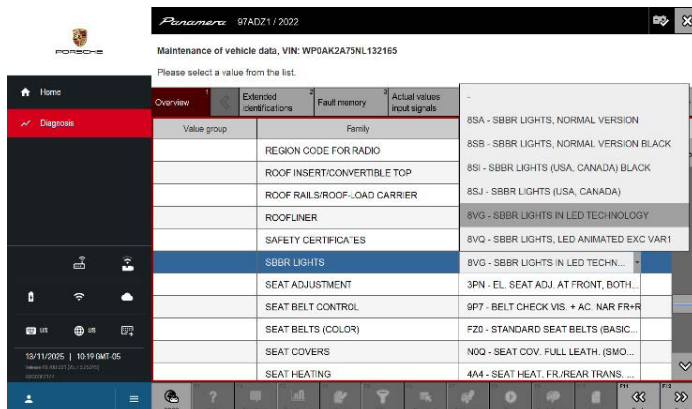
3. Concluding work

3.1 Confirm routed overlay is secured to existing lines/harness with tie-wraps and tessa tape.

Note: Secure without any tension and be cautious of routing to prevent chafing

3.3 Coding and Programming

1. Create a vehicle analysis log (VAL).
2. Modify Maintenance of Vehicle Data using additional menu.
3. Look for the "SBBR lights" option in the "Family" column.
4. Select the relevant option "**8VG - SBBR LIGHTS IN LED TECHNOLOGY**" from the drop-down menu in the "Value" column.
5. Verify that the changes were made.
6. Go to coding and programming for rear-end electronics (BCM2).
7. Select and perform automatic programming.
8. Verify function of ALL lights on the vehicle.
9. Verify system is fault free.
10. Create a vehicle analysis log (VAL).



Warranty

For documentation and warranty invoicing, enter the working position and PCSS encryption specified below in the warranty claim. Additional labor operations may be claimed only as needed.

APOS	Labor operation	I No.
94312440	2 rear lights install (Main work)	
94314999*	Work related to routing the additional wire	

*For 94314999 A fixed amount of 68TU may be claimed

PCSS encryption:

Location (FES5)	9431	Rear light
Symptom	1611	No function

Search Items

Taillight, G2, Panamera, exclusive, rear end electronics, BCM2, overlay

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