

Flashing Function for Auxiliary Headlights Faulty / Fault Memory Entry "C11A401" in Control Unit for Headlight Bulb: Re-Code Control Unit for Headlight Bulb (231/24)

Model Line: **Cayenne (9YA / 9YB)**

Model Year: **As of 2019 up to 2023**

Equipment: **Basic LED headlights (M-No. 8IT)**

Concerns: **Auxiliary headlights, front left or right**

Cause: **The customer intermittently complains about the white warning message "Front left direction indicator defective- check direction indicator" or "Front right direction indicator defective - check direction indicator".**

The orange flashing function of the affected auxiliary headlight is no longer available; instead, the auxiliary headlight flashes white or is deactivated during the complete flashing phase.

The following fault memory entry of the control unit for the left headlight bulb or right headlight bulb is stored in the following fault memory:

- **C11A401** - Bumper direction indicator, electrical fault



Information

The right auxiliary headlight is mainly affected by this complaint.

Root Cause: If the vehicle electrical system voltage is low, a short circuit can be wrongly diagnosed due to excessively high voltage and current limits set within the control unit for the headlight bulb. As a result, the flashing function of the auxiliary headlight is deactivated by the headlight bulb control unit.
The complaint is favored, for example, by "stop-and-go" operation with longer downtimes (e.g. level crossing) and reduced vehicle electrical system voltage.

Action: If there is a customer complaint, regardless of whether only one or both auxiliary headlights exhibit the complaint, re-code the control units for the left headlight bulb **and** right headlight bulb using the PIWIS Tester.



Information

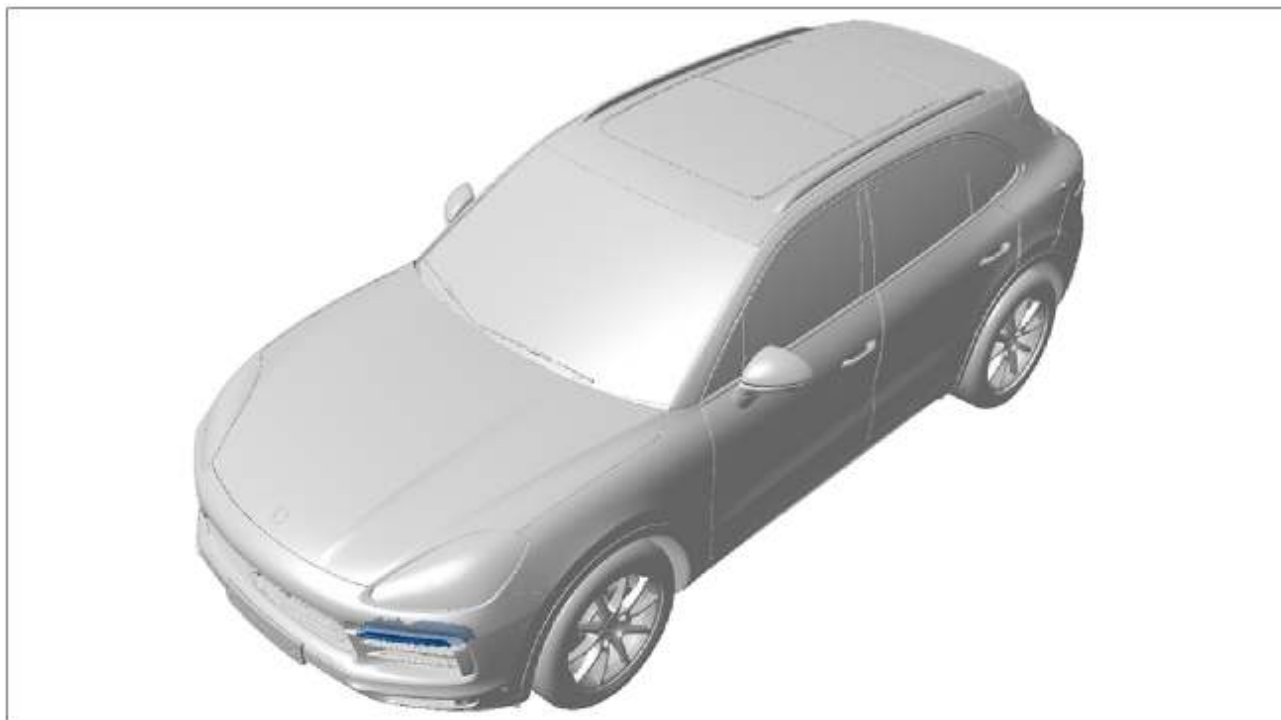
The minimum requirement for coding is the PIWIS Tester software release **43.000.030** (or higher)



Information

Replacement of the components does not correct the problem in this complaint and does not provide any remedy.

Installation
Position:



Installation position of auxiliary headlight

Required Tools

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 battery and vehicle electrical system'*

Re-code the control units for the left and right headlights

Work Procedure: 1 Re-code the control units for the left and right headlights.

The basic procedure to be followed for coding the control unit is described in the Workshop Manual: ⇒ *Workshop Manual '270689 Basic instructions and procedure for control unit programming using the PIWIS Tester'*

Specific information on control unit coding in the context of this Technical Information:

Required PIWIS Tester software release:	43.000.030 (or higher)
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Type of control unit coding:	Control unit coding via the "Automatic coding" function control unit for the left headlight bulb (A31) and the right headlight bulb (A27).
Coding sequence:	Read and follow the information and instructions on the PIWIS Tester during the guided coding sequence. Do not interrupt the coding process. When coding is complete, the message "Coding has been completed successfully" is displayed and a tick appears in the "Status" box.
Procedure if control unit coding is not successful :	Repeat control unit coding.

- 2 Read out and delete all control unit fault memories.
- 3 End the diagnostic application. Switch off the ignition and disconnect the **P90999 - PIWIS Tester 4** from the vehicle.
- 4 Switch off and disconnect the battery charger.
⇒ *Workshop Manual '270689 Charging vehicle electrical system battery'*

Labor position and PCSS encryption

Labor position:

APOS	Labor operation	I No.
94152540	Re-program control units for left and right headlight bulbs	

PCSS encryption:

Location (FES5)	94710	Auxiliary headlights
Damage type (SA4)	1613	temporarily not functioning

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