

Air-Conditioning System Malfunction - Temporarily Faulty Blow-Out Temperature/No Air Flow: Re-Programming Air-Conditioning Control Unit (06/26)

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

Model Year: **As of 2024 up to 2026**

Concerns: **Air-conditioning system**

Cause: **The customer complains that the air-conditioning system is temporarily heating instead of cooling or there is no air flow for a few minutes. The air temperature then automatically returns to its normal state without further intervention.**

This behavior can be caused by tunnel detection for the "Automatic air recirculation when driving in tunnels" function.

There are **no** entries stored in the fault memory.

Action: Due to the existing customer complaint, re-program the air-conditioning system control unit using the Porsche Tester.



Information

The minimum programming requirement is the Porsche Tester software release: **44.300.010** (or higher).

Required tools

- Tools:
- **P90999 - Porsche 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., **battery charger 90 A**. For further information about the battery chargers to be used, see the corresponding Workshop Manual. ⇒ *Workshop Manual '270689 Charging the vehicle electrical system battery'*

Re-programming air-conditioning system control unit

Work Procedure: 1 Re-programming air-conditioning system control unit.

The basic work procedure for control unit programming is described in the Workshop Manual.

⇒ *Workshop Manual '9X00IN Basic instructions and procedure for control unit programming using the PIWIS Tester'*

Specific information on control unit programming during this action:

Required Porsche Tester software release:	44.300.010 (or higher)
Type of control unit programming:	Control unit programming using the ' Automatic programming ' function of the control unit: Control unit ' Air-conditioning system ' – menu ' Coding/programming ' – Function ' Automatic programming '.
Programming sequence:	Read and follow the information and instructions on the Porsche Tester during the guided programming sequence. During the programming sequence, the control unit is re-programmed and then re-coded automatically . Do not interrupt the programming and coding process. Backup documentation for the re-programmed software releases starts after programming.
Programming duration:	Programming takes up to 3 minutes , depending on equipment.
Software programmed during this action:	▪ Air conditioning control unit Software version: 2410 (or higher) Following control unit programming, the software release can be read out from the respective control unit using the Porsche Tester in the menu ⇒ 'Extended identifications'.
Procedure in the event of error messages appearing during the programming sequence:	⇒ <i>Workshop Manual '9X00IN Basic instructions and procedure for control unit programming using the PIWIS Tester'</i>
Procedure in the event of abnormal termination of control unit programming:	Repeat control unit programming by restarting programming.

- 2 Read out and delete all control unit fault memories.
- 3 Press **(F3)** to start the integration test in the control unit selection.
If there is an integration deviation for individual control units, these must be programmed before vehicle handover to the customer.



Information

If, despite the programming performed, a deviation is still displayed during the integration test, the test must be carried out again.

There must be no breaches of integration!

Control units with optional software can be ignored – with the exception of the air-conditioning system control unit.

- 4 Exit the diagnostic application, switch off the ignition and disconnect **P90999 - Porsche Tester 4** from the vehicle.
- 5 Switch off and disconnect the battery charger.
⇒ *Workshop Manual '270689 Charging the vehicle electrical system battery'*

Labor position and PCSS encryption

Labor position:

APOS	Labor operation	I No.
87112540	Re-programming air-conditioning system control unit	

PCSS encryption:

Location (FES5)	87000	Air-conditioning system
Damage type (SA4)	1614	Function not as specified

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