

Technical Information

Service

81/26

ENU

3995

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Yellow Warning Message "All-Wheel Drive System Malfunction", "C12BEF6" and "C133700" in the All-Wheel Electronics Control Unit (81/26)

Model Line: Cayenne (9YA/9YB)

Equipment: 8-speed automatic transmission for all-wheel drive (M No. G1G)

Concerns: All-wheel drive electronics (PTM) control unit

Cause: **The customer complains about a yellow warning message "All-wheel drive system malfunction" "Only rear-wheel drive available, adapted driving possible" on the instrument cluster.**

The following fault memory entries are stored **simultaneously** in the all-wheel drive electronics (PTM) control unit:

- **C12BEF6** - Internal control unit monitoring (**002116**)
- **C133700** - Forced activation of PSM (**002700**)

Action: Re-programming the all-wheel drive electronics (PTM) control unit.



Information

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

Required tools

Tools:

-  **P90999** – Porsche Tester, 4th generation
- Battery charger with a current rating of at least 90 A and a current- and voltage-controlled charging characteristic 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. **270689A2 Charging the vehicle electrical system battery**

Re-programming the all-wheel drive electronics (PTM) control unit

Work Procedure: **1** Re-programming the all-wheel drive electronics (PTM) control unit.

The basic procedure for control unit programming is described in the 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: All-wheel drive electronics (PTM) control unit Coding/programming menu Automatic programming function.
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 automatically re-coded . Do not interrupt programming and coding. Back documentation of the re-programmed software releases starts after programming.
Programming duration:	Programming takes 3 minutes .
Software programmed during this action:	All-wheel drive electronics (PTM) control unit software version: 1302 (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:	9X00IN Basic instructions and procedure for control unit programming using the PIWIS Tester
Procedure in the event of a termination of control unit programming:	Repeat control unit programming by restarting programming.

2 Read out and delete the fault memory of all control units.



Information

If control units are found to have faults that are **not** caused by control unit programming, they must first be **located** and **corrected**.

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

There must be no integration violations!

Control units with optional software can – with the exception of the all-wheel drive electronics (PTM) control unit – be ignored.

4 End the diagnostic application, end readiness for operation and disconnect > P90999_-_Porsche_Tester_4th_generation from the vehicle.

5 Switch off and disconnect the battery charger.

270689A2 Charging the vehicle electrical system battery

Labor position and PCSS encryption

Labor position:

Re-programming the all-wheel drive electronics control unit

PCSS encryption:

39950 All-wheel drive electronics control unit

1611 does not function

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