

**Check Engine Warning Light is Active in Conjunction With Fault Memory Entry "P25B400" in the DME Control Unit (250/22)**

Vehicle Type: **Cayenne E-Hybrid (9YA)  
Cayenne E-Hybrid Coupé (9YB)**

Model Year: **As of 2021 up to 2023**

Equipment: **Emissions concept LEV3 / TIER3 70 (M No. 7CE)**

Concerns: **Engine electronics (DME) control unit**

Cause: Check engine warning light active in conjunction with fault memory entry "P25B400 - wastegate, turbocharger bank 1, stuck closed (008403)" in the engine electronics control unit (DME).

A dynamic start of the combustion engine from electric driving can lead to a low boost pressure build-up in some operating states. The potentially too low boost pressure rise is wrongly interpreted as a non-functioning wastegate. As a result, the Check Engine warning light can be activated and the fault memory entry "P25B400" can be set in the engine electronics control unit (DME).

Action required: Re-program the control unit engine electronics (DME) with the PIWIS Tester and the latest PIWIS Tester software version.

Minimum requirement: Version **41.400.050**

**Required tools**

- Tool:
- 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 90A battery charger** . For further information about the battery chargers to be used, see the corresponding Workshop Manual. ⇒ *Workshop Manual '270689 Charging vehicle electrical system battery'*
  - **9900 - PIWIS Tester 3**

**Re-program engine electronics (DME) control unit**



**Information**

The procedure described here is based on the PIWIS Tester 3 software version **40.785.090** .

The PIWIS Tester instructions take precedence and in the event of a discrepancy, these are the instructions that must be followed.

Deviations may occur with later software versions, for example.

Work procedure: 1 Re-program DME control unit.

The basic procedure for programming a control unit is described in the Workshop Manual ⇒ *Workshop Manual '9X00IN Basic instructions and procedure for control unit programming using the PIWIS Tester - section on "Programming"*.

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

Required PIWIS Tester software version:	<b>41.400.050</b> (or higher)
Type of control unit programming:	Control unit programming using the ' <b>Automatic programming</b> ' function of the DME control unit: <b>'Engine electronics (DME)'</b> control unit – ' <b>Coding / programming</b> ' menu – ' <b>Automatic programming</b> ' function.
Programming sequence:	Read and follow the <b>information and instructions on the PIWIS Tester</b> during the guided programming sequence. During the programming sequence, the <b>DME control unit is re-programmed</b> and then <b>automatically re-coded</b> . <b>Do not interrupt programming and coding.</b> Once the control units have been programmed and coded, you will be prompted to switch the ignition off and then back on again after a certain waiting time. Backup documentation of the new software versions is then performed.
Programming time (approx.):	<b>13 minutes</b>
Data record (software part number and software version) programmed for the DME control unit during programming:	Software part number: <b>9Y0.907.559.AB</b> Software version: <b>0004</b> The software part number and software version of the programmed data record are based on the specified PIWIS Tester software version. Please note that this may be different in a higher version.

Procedure in the event of a termination in the control unit programming:	<ul style="list-style-type: none"> <li>• Switch ignition off and then on again.</li> <li>• Reading out and erasing fault memories. ⇒ <i>Workshop Manual '9X00IN Basic instructions and procedure for control unit programming using the PIWIS Tester - section on "Rework"</i></li> <li>• Repeat control unit programming by restarting programming.</li> </ul>
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 - section on "Troubleshooting"</i> .

- 2 Carry out general reworking for control unit programming as described in ⇒ *Workshop Manual '9X00IN Basic instructions and work procedure for control unit programming using the PIWIS Tester - Reworking section'*.

**Invoicing**

For documentation and warranty invoicing, enter the working position and PCSS encryption specified below in the warranty claim:

APOS	Labor operation	I No.
24702540	Re-programming DME control unit	

PCSS encryption:

Location (FES5)	24700	DME control unit
Damage type (SA4)	1134	Programming error

- References: ⇒ *Workshop Manual '270689 Charging vehicle electrical system battery'*  
 ⇒ *Workshop Manual '9X00IN Basic instructions and procedure for control unit programming'*

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