

Check Engine Warning Light Active / Fault Memory Entry "P26B100/00CB24" in the Thermal Management Control Unit (TME): Re-Programming Control Unit (193/22)

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

Model Year: **As of 2020 up to 2021**

Equipment: **Emissions concept PL7 with alternative. OBD (M No. 0GB)
Emissions concept LEV3 / TIER3 70 (M No. 7CE)
Emissions concept LEV3 / TIER3 125 (M No. 7MU)
Emissions concept C6B w/o RDE (M No. 7CM / 4BD)
Emissions concept C6B w/ RDE (M No. 7CR)**

Concerns: **Thermal management control unit (TME)**

Information:

- Customers complain that the Malfunction Indicator Lamp (MIL)/ Check Engine Light is on in the instrument cluster.
- The fault memory entry "Directional-control valve for high-temperature circuit – function implausible (P26B100/00CB24)" is set in the thermal management control unit (TME).

Action required: In the event of a customer complaint and if a fault memory entry is set in the thermal management control unit (TME), the software version of the thermal management control unit (TME) must be checked and re-programmed if necessary using the PIWIS Tester with PIWIS Tester software version **41.150.030** (or higher) installed.

Required tools

Tool:

- Battery charger with a current rating of **at least 90 A**, e.g. **VAS 5908 battery charger 90A**. For further information about the battery chargers to be used, see the corresponding Workshop Manual. ⇒ *Workshop Manual '270689 Charging vehicle electrical system and battery'*
- **9900 - PIWIS Tester 3** with PIWIS Tester software version **41.150.030** (or higher) installed

Preparatory work

NOTICE

Fault entry in the fault memory or control unit programming aborted, as the case may be, due to low voltage.

- **Increased current draw during diagnosis or control unit programming can cause a drop in voltage, which can result in one or more fault entries and the abnormal termination of the programming process.**

⇒ **Before commencing work, connect a suitable battery charger with a charging current of at least 90 A to the jump-start terminals in the engine compartment.**

NOTICE

Control unit programming will be aborted if the Wi-Fi connection is unstable.

- An unstable Wi-Fi connection can interrupt communication between the PIWIS Tester II and the vehicle communication module (VCI). As a result, control unit programming may be aborted.
- ⇒ During control unit programming, always connect the PIWIS Tester to the vehicle communication module (VCI) via the USB cable.

NOTICE

Control unit programming will be aborted if the driver's key is not detected.

- If the driver's key is not detected in the vehicle, programming cannot be started or will be interrupted.
- ⇒ Place the driver's key with the back facing down into the front left storage compartment in the center console to ensure a continuous radio link between the vehicle and the driver's key.

Work Procedure: 1 Carry out general preliminary work for control unit programming as described in ⇒ *Workshop Manual '9X00IN Basic instructions and procedure for control unit programming – chapter on "Preliminary work"*.

Check software version of the thermal management control unit (TME)

Work Procedure: 1 Check software version of the thermal management control unit (TME).

1.1 Select **'thermal management control unit (TME)'**.

1.2 Select the **'Extended identifications'** menu.

1.3 Checking software version of **'thermal management control unit' (TME)**.

1.3.1 If the software version is **'0305' (or higher)**, the TME control unit is already up-to-date, and the fault must otherwise be found and corrected. Continue with ⇒ *Technical Information '9X00IN Concluding work'*.

1.3.2 If the software version is earlier than **'0304'**, re-program the thermal management control unit (TME). ⇒ *Technical Information '9X00IN Re-programming thermal management control unit (TME)'*

Re-programming thermal management control unit (TME)**Information**

The procedure described here is based on the PIWIS Tester 3 software version **41.150.030**.

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 The basic 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'*.

For specific information on control unit programming during this campaign, see table below.

Required PIWIS Tester software version:	41.150.030 (or higher)
Type of control unit programming:	Control unit programming using the 'Campaign' function in the additional menu on the PIWIS Tester by entering a programming code.
Programming code:	E3T8E
Programming sequence:	Read and follow the information and instructions on the PIWIS Tester during the guided programming sequence. Do not interrupt programming and coding. A backup documentation process for the re-programmed software versions starts as soon as programming and coding is complete.
Programming time (approx):	3 minutes
Software version programmed during this campaign:	<ul style="list-style-type: none"> Thermal management control unit (TME): 0305 <p>Following control unit programming, the software version can be read out from the relevant control unit in the ⇒ 'Incremented identifications' menu using the PIWIS Tester.</p>
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 "Fault finding"</i> .
Procedure in the event of a termination in the control unit programming:	Repeat control unit programming by restarting programming.

Concluding work

Work Procedure: 1 Carry out general rework for control unit programming as described in ⇒ *Workshop Manual '9X00IN Basic instructions and procedure for control unit programming using the PIWIS Tester - section on "Rework"*.

Invoicing

For documentation and invoicing in the event of a warranty, state the work items required depending on the scope of work and the specified PCSS encryption in the warranty claim:

APOS	Labor operation	I No.
19290101	Checking thermal management control unit	
19292551	Programming thermal management control unit	

PCSS encryption:

Location (FES5)	82740	Directional-control valve
Damage type (SA4)	1611	does not function

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

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