

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. VAS5908 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:                                                               | <p>Read and follow the information and instructions on the PIWIS Tester during the guided programming sequence.</p> <p>Do not interrupt programming and coding.</p> <p>A backup documentation process for the re-programmed software versions starts as soon as programming and coding is complete.</p> |
| Programming time (approx):                                                          | 3 minutes                                                                                                                                                                                                                                                                                               |
| Software version programmed during this campaign:                                   | <ul style="list-style-type: none"> <li>Thermal management control unit (TME): 0305</li> </ul> <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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