Check Engine Warning Light Active / Fault Memory Entry "P26B100 / 00CB24" in the Thermal Management Control Unit (TME): Re-Programming Control Unit (116 / 22)

Revision: This bulletin replaces bulletin ATI Group 8 2215, dated May 31, 2022.

Vehicle Type: **Panamera 4 E-Hybrid (971) / Panamera 4 E-Hybrid Executive (971) / Panamera 4 E-Hybrid Sport Turismo (971) / Panamera 4S E-Hybrid (971) / Panamera 4S E-Hybrid Executive (971) / Panamera 4S E-Hybrid Sport Turismo (971) / Panamera Turbo S E-Hybrid (971) / Panamera Turbo S E-Hybrid Executive (971) / Panamera Turbo S E-Hybrid Sport Turismo (971)**

Model Year: **As of 2019 up to 2021**

Country / Market: **USA (C02)**

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

Information:
- Customers complain that the Check Engine pilot 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 test software version **40.900.050** (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 battery'*
- **9900 - PIWIS Tester 3** with PIWIS Tester test software version **40.900.050** (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 – section 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 Subsequent work'*.

1.3.2 If the software version is less than '0305', 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 **40.900.050**.

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:	**40.900.050** (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:	**G2T8E**
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:	• Thermal management control unit (TME): **0305** Following control unit programming, the software version can be read out from the relevant control unit in the ⇒ 'Extended identifications' menu using the PIWIS Tester.
Procedure in the event of error messages appearing during the programming sequence:	⇒ *Workshop Manual '9X00IN Basic instructions and procedure for control unit programming using the PIWIS Tester - section on "Troubleshooting"'*.
Procedure in the event of abnormal termination of 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 a warranty case, 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