Message “Engine Control System Fault” in Conjunction with Fault Memory Entry “P032400” in the DME Control Unit (32 / 23)

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

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

Concerns: **DME control unit**

Cause: **The message “Engine control system fault” is displayed in the instrument cluster.**

The following fault is stored in the fault memory of the DME control unit:

- P032400 - Knock control - malfunction, (000A79)

Action required: In the event of a customer complaint, re-program the motor electronics (DME) control unit the PIWIS Tester.

Information

The minimum programming requirement is the PIWIS Tester software release: **41.750.050**

The modified DME software optimizes the diagnosis of knock control. The DME control unit does not need to be replaced for this fault type.

Required tools

Tool:

- **9900 - PIWIS Tester 3 / 4**
- Battery charger with a current rating of **at least 90 A**, e.g. **VAS 5908 90 A battery charger**. For further information about the battery chargers to be used, see the corresponding Workshop Manual. ⇒ *Workshop Manual '270689 Charging vehicle electrical system and battery'*

Re-program motor electronics (DME) control unit

Work Procedure: 1 The basic work 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 release:	**41.750.050** (or higher)

Type of control unit programming:	Control unit programming using the **'Automatic programming'** function of the DME control unit. **'Motor electronics (DME)'** control unit – **'Coding / programming'** menu – **'Automatic programming'** function.
Programming sequence:	Read and follow the **information and instructions on the PIWIS Tester** during the guided programming sequence. During programming, the **DME control unit** is **re-programmed** and then **automaticallyre-coded**. **Do not interrupt programming and coding.** 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.):	Programming takes up to **15 minutes**, depending on equipment.
Data set for the motor electronics (DME) programmed as part of this programming:	See section ⇒ *Technical Information '9X00IN Overview of programmed DME data sets'*.
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 in the control unit programming:	Repeat control unit programming by restarting programming.

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'*.

Overview of programmed DME data records

Overview:

Information

The software part number and software release of the programmed data record are based on the specified PIWIS Tester software release. Please note that this may be different in a later release.

- **Cayenne E-Hybrid (9YA) / Cayenne E-Hybrid Coupé (9YB)**

Exhaust emission standard	Model year			Porsche part number (software)	Software release
	2021 (M)	2022 (N)	2023 (P)		
ULEV 70	X	X	X	9Y0907559AB	0006

Labor position and PCSS encryption

Labor position:

APOS	Labor operation	I No.
24702505	Programming DME control units	

PCSS encryption:

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

References: ⇒ *Workshop Manual '270689 Charging vehicle electrical system and battery'*

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