

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 automatically re-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 ⇒ <i>Technical Information '9X00IN Overview of programmed DME data sets'</i> .
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> .
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'*

Important Notice: Technical Bulletins issued by Porsche Cars North America, Inc. are intended only for use by professional automotive technicians who have attended Porsche service training courses. They are written to inform those technicians of conditions that may occur on some Porsche vehicles, or to provide information that could assist in the proper servicing of a vehicle. Porsche special tools may be necessary in order to perform certain operations identified in these bulletins. Use of tools and procedures other than those Porsche recommends in these bulletins may be detrimental to the safe operation of your vehicle, and may endanger the people working on it. Properly trained Porsche technicians have the equipment, tools, safety instructions, and know-how to do the job properly and safely. Part numbers listed in these bulletins are for reference only. The work procedures updated electronically in the Porsche PIWIS diagnostic and testing device take precedence and, in the event of a discrepancy, the work procedures in the PIWIS Tester are the ones that must be followed.

© 2023 Porsche Cars North America, Inc.