

**“Fuel Gauge Fault – Service Necessary” Warning Message in Instrument Cluster:
Re-Coding Control Unit for Rear-End Electronics (BCM2) (195/24)**

Model Line: **Cayenne (9YA/9YB)**

Model Year: **As of 2019 up to 2023**

Concerns: **Fuel level sender**

Cause: **The customer complains that the warning message “Fuel gauge faulty – service necessary” is illuminated on the instrument cluster.**

One of the following fault memory entries is stored in the fault memory of the control unit for the rear-end electronics (BCM2):

- B103E1B – Right fuel level sensor 1, resistance too high
- B10581B – Left fuel level sensor 2, resistance too high

Action: Re-code the control unit for the rearend electronics (BCM2) using the PIWIS Tester if there is a customer complaint.



Information

The minimum requirement for coding is the PIWIS Tester software release **42.950.055** (or higher).

Required tools

- Tools:
- **P90999 - PIWIS Tester 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 battery'*

Re-coding control unit for rear-end electronics (BCM2)

- 1 Connect and switch on the battery charger.
⇒ *Workshop Manual '270689 Charging battery/vehicle electrical system'*
- 2 Place the original remote control in the emergency start tray.
- 3 Connect the **P90999 - PIWIS Tester 4**, switch on ignition and start the diagnostic application.
- 4 Re-code the control unit for rear-end electronics (BCM2).

The basic procedure for control unit coding is described in the Workshop Manual ⇒ *Workshop Manual '9X00IN Basic instructions and procedure for control unit programming using the PIWIS Tester'*.

Specific information on control unit coding in the context of this Technical Information:

Required PIWIS Tester software release:	42.950.055 (or higher)
Type of control unit coding:	Control unit coding using the "Automatic coding" function for the control unit: Control unit for "Rear-end electronics (BCM2)" – "Coding/programming" menu – "Automatic coding" function.
Coding sequence:	Read and follow the information and instructions on the PIWIS Tester during the guided coding sequence. Do not interrupt the coding process. When coding is complete, the message "Coding has been completed successfully" is displayed, and a tick appears in the "Status" box.
Procedure if control unit coding is not successful :	Repeat control unit coding.

- 5 Read out and delete all control unit fault memories.
- 6 End the diagnostic application. Switch off ignition. **P90999 - PIWIS Tester 4** must now be disconnected from the vehicle.
- 7 Switch off and disconnect the battery charger.
⇒ *Workshop Manual '270689 Charging battery/vehicle electrical system'*

Labor position and PCSS encryption

Labor position:

APOS	Labor operation	I No.
57892500	Coding control unit for rear-end electronics (BCM2)	

PCSS encryption:

Location (FES5)	90230	Fuel supply display
Damage type (SA4)	4045	Warning activated

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