

Technical Information

268/22 ENU 4890

Service

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Activated Warning Message "Power Steering Reduced" in Conjunction with Fault Memory Entry "B200049" in Power Steering Control Unit (268/22)

Vehicle Type:	Cayenne (9YA / 9YB)
Model Year:	As of 201 9 up to 2022
Concerns:	Power steering control unit
Cause:	Customers complain about an activated warning message "Power steering reduced" in the instrument cluster . The following fault memory entry is stored in the power steering gear control unit fault memory: • B200049 – coding (703680)
Action:	In the event of a customer complaint, check the power steering gear software status and depending on the result re-program.
Required too	ls
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. \Rightarrow Workshop Manual '270689 Charging vehicle electrical system and battery'
 - 9900 PIWIS Tester 3/4 with PIWIS Tester software version 41.900.040 (or higher) installed

Checking the power steering gear software status

Work Procedure: 1Connect a battery charger that is suitable for lithium starter batteries with a current rating of at least
90 A (e.g. battery charger 90 A) to the jump-lead starting terminals in the engine compartment.
For instructions, see:
 \Rightarrow Workshop Manual '2706IN External power connection, jump-lead starting'

- 2 **Position** the driver key in the rear area of the left cupholder in the center console between the holding struts (emergency start tray) in order to ensure a permanent radio link between the vehicle and driver key ⇒ *Emergency start tray*.
- 3 Connect **9900 PIWIS Tester 3/4** to the vehicle communication module (VCI) via the **USB cable**. Then connect the communication module to the vehicle and switch on the PIWIS Tester.
- 4 Switch on the ignition.



Emergency start tray

5 On the PIWIS Tester start screen, call up the '**Diagnostics**' application.

The vehicle type is then read out, the diagnostic application is started and the control unit selection screen is populated.

- 6 Create Vehicle Analysis Log (VAL) using the PIWIS Tester. Mark the created vehicle analysis log with "**Pre-VAL**" and return it with the PIWIS Tester after programming.
- 7 Select Power steering control unit.
- 8 Select 'Extended identification' menu.
- 9 Read out software status:

Software version:	Action:
0507 or higher	After the action, the power steering software status is current. Continue fault finding by other means.
Less than 0507 and Vehicle model year 2022 (N) – 2023 (P)	Re-program power steering control unit, vehicles from model year 2022 (N). ⇒ Technical Information '2706IN Re-programming power steering control unit, vehicles from model year 2022 (N)'
Less than 0507 and Vehicle model year 2019 (K) – 2021 (M)	Re-program power steering control unit, vehicles from model years 2019 (K) – 2021 (M). \Rightarrow Technical Information '2706IN Re-programming power steering control unit, vehicles from model years 2018 (J) – 2021 (M)'

Re-programming power steering control unit, vehicles from model year 2022 (N)

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"'.

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Required PIWIS Tester software version:	41.900.040 (or higher)
Type of control unit programming:	Control unit programming using 'Automatic programming' in the power steering control unit.
	'Power steering' control unit – 'Coding/programming' menu – 'Automatic programming'.
Programming sequence:	Read and follow the information and instructions on the PIWIS Tester during the guided programming sequence. During programming, the power steering control unit is re-programmed and then automati- callyre-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 5 minutes , depending on equipment.
Power steering data set programmed	• 0507
during this programming:	The software version information in the programmed data record is based on the specified PIWIS Tester software version. Please note that this may be different in a later release.
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 a termination in the control unit programming:	Repeat control unit programming by restarting programming.

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

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'.

Re-programming power steering control unit, vehicles from model years 2019 (K) – 2021 (M)

- Work Procedure: 1Carry out general preliminary work for control unit programming as described in \Rightarrow WorkshopManual '9X00IN Basic instructions and procedure for control unit programming "Preliminary Work"
section'.
 - 2 The basic 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:	41.900.040 (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:	B2S2M
Programming sequence:	 Read and follow the information and instructions on the PIWIS Tester during the guided programming sequence. During programming, the power steering control unit is re-programmed and then automaticallyre- coded. Do not interrupt programming and coding. Backup documentation of the new software versions is then performed.
Programming time (approx.):	5 minutes
Software version programmed during programming:	• 0507 The software version information in the programmed data record is based on the specified PIWIS Tester software version. Please note that this may be different in a later release.

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Procedure in the event of a termination in the control unit programming:	 Switch ignition off and then on again. Reading out and erasing fault memories. ⇒ Workshop Manual '9XOOIN Basic instructions and procedure for control unit programming using the PIWIS Tester - section on "Rework"' Repeat control unit programming by restarting programming.
Procedure in the event of error messages	⇒ Workshop Manual '9X00IN Basic instructions and
appearing during the programming	procedure for control unit programming using the
sequence:	PIWIS Tester - section on "Troubleshooting".

Carry out general reworking for control unit programming as described in \Rightarrow Workshop Manual 3 '9X00IN Basic instructions and work procedure for control unit programming using the PIWIS Tester -"Reworking" section'.

Invoicing

For documentation and warranty invoicing, enter the working position and PCSS encryption specified below in the warranty claim:

APOS	Labor operation	I No.
48900100	Check power steering gear	
48902553	Programming power-steering gear	

PCSS encryption:

Location (FES5)	48900	Power steering gear
Damage type (SA4)	1614	function not according to specification

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