

Technical Information

Service

07/19 ENU 3995

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Eliminating Transmission Symptoms - Longitudinal Jerking When Driving at Full Load: Re-programming All-wheel control (PTM) control unit (SY 07/19)

Vehicle Type: Cayenne (9YA)

Model Year: As of 2018 up to 2019

Subject: All-wheel control (PTM) control unit

Symptom: Longitudinal jerking can occur at speeds of approx. 120 mph (190 km/h) under full load.

Cause: • Longitudinal jerking can occur if control unit software is not optimally adapted.

• This symptom can be caused by tires with low road holding (winter tires).

Remedial Action:

In the event of a customer complaint and if the software version in the all-wheel control (PTM) control unit is "0802", re-program the all-wheel control (PTM) control unit.

9900 - PIWIS Tester 3 with software version 38.100.030 (or higher) installed

Battery charger - VAS 5908 with a current rating of at least 90 A.

Work Procedure:

Tools:

NOTICE

Voltage drop

- Risk of irreparable damage to control unit
- · Risk of damage to control unit
- · Fault entries in the control unit
- · Coding in the control unit is aborted
- Malfunctions in control unit, even during programming
- ⇒ Before disconnecting the control unit, switch off ignition and remove ignition key.
- \Rightarrow Make sure that the power supply is not interrupted during programming.
- ⇒ Connect battery charger/power supply Suitable for AGM Type batteries, recommended current rating of 90A fixed voltage 13.5V to 14.5V.

1 Preliminary work:

- 1.1 Connect a battery charger with a current rating of at least 90 A.
- 1.2 Switch on the ignition using the **original vehicle key**.

NOTICE

Coding will be aborted if the WLAN connection is unstable.

- An unstable WLAN connection can interrupt communication between PIWIS Tester 3 and the vehicle communication module (VCI). As a result, coding/programming may be aborted.
- ⇒ During control unit coding/programming, always connect PIWIS Tester 3 to the vehicle communication module (VCI) via the USB cable.
 - 1.3 **9900 PIWIS Tester 3** with software version **38.100.030** (or higher) installed must be connected to the vehicle communication module (VCI) via the **USB cable**. Then, connect the communication module to the vehicle and switch on the PIWIS Tester.
 - 1.4 On the PIWIS Tester start screen, call up the ⇒ 'Diagnostics' menu.The diagnostic application is then started and the control unit selection screen is populated.



Information

The procedure described here is based on the **9900 - PIWIS Tester 3** software version **38.100.030**.

The PIWIS Tester instructions take precedence and in the event of a discrepancy, these are the instructions that must be followed.

A discrepancy may arise with later software versions for example.

2 "All-wheel control (PTM)" control unit ⇒ re-program:

	Menu ⇒	Control = unit/Function	⇒ Action ⇒	confirm/execute
	• Instructions/	'information or	 ⇒ Result/consequence of action 	
2.1	Control units 'Overview'	'Additional menu'	call up	•F7"
2.2	⇒ Follow instructions:			
		te Vehicle Analysis Log (VAL) if necessary and out any campaigns that are available for the vehicle.		•Yes" /•No" / •F12"
2.3		'Campaign'	select	•F12"
2.4	Campaign number	Value: ' G5Z8T '	enter	•F12"

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Read and follow the **information and instructions on the PIWIS Tester** during the guided programming sequence. Then press •>>" to continue.

During the programming sequence, the control unit is re-programmed and then re-coded automatically if necessary.

Do not interrupt programming and coding.

Once control unit programming - and coding if necessary - is complete, you will be prompted to switch the ignition off and then back on again after a specified waiting time.

2.5	Control units ' Overview '	All-wheel control (PTM)	select	•F12"
2.6	'Extended identifications'		select	
	Software version p	programmed during this	1320	
	If programming is not completed successfully (error message "Programming unsuccessful"), programming must be repeated .			
2.7	Maintenance/ repairs	Commissioning	select	•F12"

3 Subsequent work:

3.1 Read out and erase all fault memories.



Information

If there are still fault memory entries in individual control units, start the engine briefly and then switch it off again. Wait for approx. 10 seconds before switching the ignition on again and re-establish the connection between the PIWIS Tester and the vehicle. Then read out and erase the fault memories of the affected control units again separately.

- 3.2 Switch off ignition.
- 3.3 Disconnect the PIWIS Tester from the vehicle.
- 3.4 Switch off and disconnect the battery charger.

End of action required.

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Invoicing: The work involved is invoiced under the labor operation:

APOS	Labor operation	I No.
39952550	Programming all-wheel drive electronics control unit	

For invoicing and documentation using PQIS, enter the following coding:

Location (FES5)	39780	Transfer gear servo motor
Damage type (SA4)	9739	Software update for greater customer satisfaction

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