

Hard Shifting In Range First to Second

Vehicle Type: **Cayenne/Cayenne S/Cayenne Turbo**

Model Year: **2003 (3) – 2005 (5)**

Concern: **Complaint about shifting quality on vehicles with Tiptronic transmission (I No. 249):**
 - Hard shifting operation of cold Tiptronic transmission when shifting from transmission range 1 to 2.

Information: The software for the Tiptronic control unit has been modified as of July 17, 2004 as a solution for this complaint.

Identification of the modified control unit (using PIWIS Tester):
 In the Tiptronic control unit, the new software version is stored using the following number, depending on vehicle type:

- 0599 = Cayenne
- 0602 = Cayenne S
- 0606 = Cayenne Turbo

Introduction: July 17, 2004, from the VINs:

- 9P0 5LA 21013 Cayenne V6
- 9P0 5LA 61668 Cayenne S
- 9P5 5LA 90550 Cayenne Turbo

Parts Information:	Part Number	Description
	955.618.020.12	New/Tiptronic control unit, Cayenne
	955.618.022.12	New/Tiptronic control unit, Cayenne S
	955.618.021.12	New/Tiptronic control unit, Cayenne Turbo

Control units also available in our remanufactured program:

Part Number	Description
955.618.020.BX	New/Tiptronic control unit, Cayenne
955.618.022.BX	New/Tiptronic control unit, Cayenne S
955.618.021.BX	New/Tiptronic control unit, Cayenne Turbo

Measure: In the event of a complaint the modified Tiptronic control unit is to be installed. See page 2 for work procedure.

Work Procedure:

1. Procuring a replacement Tiptronic control unit.

1.1 Before ordering a replacement for the Tiptronic control unit, determine the vehicle VIN, and, using the PIWIS Tester – read out the software version of the installed Tiptronic control unit.

1.1.1 Procedure for reading out the software version:

Using the PIWIS Tester select > Tiptronic control unit > Identification > Extended Identification > SW version (= 4-digit number).

1.2 Using this data, determine the part number on the “Overview of Part Numbers” (see page 4) to order the required Tiptronic control unit

Note:

The overviews also clarify **if the DME software** must be updated because of the modified Tiptronic software (> DME: yes/no).

2. Installing the modified Tiptronic control unit.

2.1 Before removing the previous Tiptronic control unit, read out the coding from the control unit;
> POSES, Workshop Manual, Cayenne, Gr. 3, 37 30 19
– Removing and installing the Tiptronic control unit.

2.2 Install the modified Tiptronic control unit.

Note:

The current software version No. (4-digit number) can be seen on the control unit (Figure 1, inset).



Figure 1

2.3 If the DME software must be updated, continue > **Step 3**. If not, continue > **Step 4**.

3. Programming the DME control module (See Overview: DME YES).

3.1 Programming the control unit only affects Cayenne S and Cayenne Turbo M.Y. '03 and '04.

3.2 Before installing the DME software, check the version No. of the current software in the DME control module.

Note:

It is possible that the software was already updated and thus it would not be necessary to change it.

3.2.1 Procedure for reading out the software version:

Required tester and software version: as of PIWIS 3.0.

Using the PIWIS Tester select > DME control module > Identification > Extended identification > SW version.

Work Procedure: (cont'd) **3.3** If one of the following listed version numbers is displayed in the PIWIS Tester under "SW version" (= software version), **the DME control module must be programmed.**

Cayenne S: 0009, 0010, 0011, 0013, 0014, 0017, 0018, 0019, 0042, 0044, 0051, 0052, XXXR.

Cayenne Turbo: 0007, 0008, 0012, 0015, 0016, 0020, 0021, 0022, 0043, 0047, 0068, 0072, XXXS, XXXT.

Continue with **Step 3.5.**

3.4 If version numbers other than those listed under **Step 3.3** are displayed under "SW version", DME programming is not required.

Continue with **Step 4.**

3.5 Procedure for programming the DME control module:
Required tester and software version: as of PIWIS 3.0
Procedure see POSES, Workshop Manual, Cayenne, Gr. 2, 24 70 19 – Removing and installing DME control module.

Note:

In order to program the data record, select "Up to M.Y. 04".

3.6 After programming the DME, execute the Kick down adaptation. Procedure see POSES, Workshop Manual, Cayenne, Gr. 2, 24 70 19 – Removing and installing DME control module.

4. Returning the Tiptronic control unit.

4.1 Send the removed control unit along with the warranty-processing bar code to the Warranty Test Center using normal return procedures.

Parts Information: **Cayenne V6** – Part Number Overview (Also applies when installing a replacement transmission)

VIN > Up to VIN From VIN >	Previous Control Unit Part Number	Software Version	DME yes/no	New Control Unit Part Number	Software Version
> 9P1 4LA 21682	955.618.020.02	0400	No	955.618.020.AX	0597
9P3 4LA 21683 >	955.618.020.10	0478	No	955.618.020.BX	0599
	955.618.020.11	0518	No		

Cayenne S – Part Number Overview (Also applies when installing a replacement transmission)

VIN > Up to VIN From VIN >	Previous Control Unit Part Number	Software Version	DME yes/no	New Control Unit Part Number	Software Version
> 9P5 4LA 74382	955.618.022.00	0311	Yes Step 3	955.618.022.AX*	0600
	955.618.022.01	0352	Yes Step 3	955.618.022.AX*	0600
	955.618.022.02	0363	No	955.618.022.AX*	0600
9P7 4LA 74383 >	955.618.022.10	0471	No	955.618.022.BX	0602
	955.618.022.11	0517	No		

* Due to delivery problems, the control unit ...022.AX cannot be delivered before the end of November 2004.

Cayenne Turbo – Part Number Overview (Also applies when installing a replacement transmission)

VIN > Up to VIN From VIN >	Previous Control Unit Part Number	Software Version	DME yes/no	New Control Unit Part Number	Software Version
> 9P7 4LA 93559	955.618.021.00	0310	Yes Step 3	955.618.021.AX	0604
	955.618.021.01	0351	Yes Step 3	955.618.021.AX	0604
	955.618.021.02	0362	No	955.618.021.AX	0604
9P3 4LA 93560 >	955.618.021.10	0473	No	955.618.021.BX	0606
	955.618.021.11	0519	No		

References:

POSES, Workshop Manual, Cayenne:

- > Group 2: 24 70 19 – Removing and installing the DME control module
- > Group 3: 37 30 19 – Removing and installing the Tiptronic control unit

POSES, Technical Information Bulletin, Cayenne:

- > Group 3: 37 02 – Changed ATF filling capacity for new automatic transmissions (No. 1/04)

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