

## Advanced Technical Information

Cayenne, Macan  
**1301** 6696

**6**

### Trailer Control Unit and Electronic Brake Controller Information

Binder - Advanced Technical Information

This bulletin replaces bulletin Group 6, #1301, dated 1-18-13.

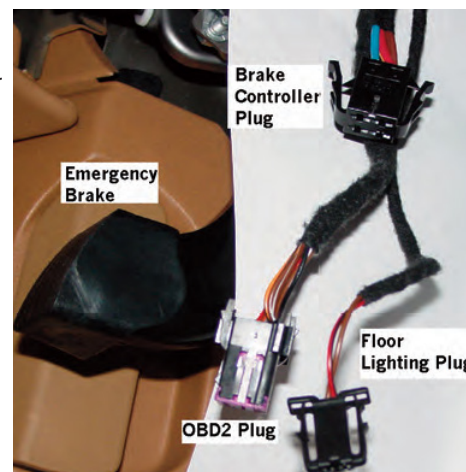
Vehicle Type: **Cayenne (All), Macan (All)**

Model Year: **As of 2003 (3)**

Information: A Cayenne with optional equipment no. 1D6 will come with a Trailer hitch receiver and wiring up to the receiver hitch that includes a control unit to operate the trailer parking lights, turn signals and brake lights. The Cayenne is also pre-wired for a brake controller.

You will need to do the following to hook up the trailer electrics and/or an electric brake controller:

- > Check the programming of the trailer control unit
  - > Obtain a plug connector that adapts the vehicle trailer harness to the trailer electrical plug
  - > Obtain a brake controller (locally sourced) if the trailer has electric brakes
  - > Obtain four connectors and one plug housing from the Cayenne connector kit
1. Check the coding of the trailer control unit. First hook up the PIWIS Tester and scan all of the control units. If there are faults in the vehicle electrical control unit, the trailer control unit will not work. Check the nature of the faults, repair and clear the fault memory of that control unit first. Next select the trailer control unit. It should be coded to "USA" and "With detachable trailer hitch" or "Trailer connection device".
  2. Obtain a connector that adapts the vehicle's trailer harness to the trailer electrical plug. Refer to Parts Information Bulletin Group 9, #D10 "Cayenne Trailer Plug & Adapter" for more information.
  3. Obtain a brake controller if the trailer has electric brakes. The plug for the brake controller is prewired into the Cayenne's harness. It is located above the parking brake pedal in 9PA and above the OBDII connector in 92A, 9YA, and 95B. Note that the plug may be covered in foam from the factory. See Figures 1 and 2.
- 3.1 Reference the applicable Wiring Diagram when installing a brake controller. Make sure the vehicles electrical connections match that of the brake controller.
  - 3.2 9PA: Fuse F19 (30A) in the right side dashboard fuse panel supplies power to the brake controller. 92A: Fuse F5 (25A) in the right side dashboard fuse panel supplies power to the brake controller.



**Figure 1**

Information:  
(cont'd)

**3.3** Obtain four connectors and one connector housing from the Cayenne connector kit. You could also use four of part numbers, 000 979 228 (Connector) and one of 1J0 972 782 (plug housing) from Volkswagen. Install the wire connectors on the brake controller wires then install into plug housing. See Figure 3.

**3.4** Plug in brake controller into the vehicle's brake controller connector.

### Important Notes:

- > Cayenne models up to and including MY'05. The maximum output for the trailer lights is 50 watts.
- > MY'06 and higher models have a maximum output of 100 watts.
- > MY'08 (mid year and up) have the capability of utilizing LED trailer light technology.
- > All control units are backwards compatible, meaning the newest control unit is compatible with the oldest vehicle.
- > If you are installing a hitch kit, the trailer hitch mounting bolts must be re-torqued after the first 300 miles of operation.



**Figure 2**

Wire Position in Connector	Wire Color	Discription
1	Brown	Ground
2	Red/Yellow	12v
3	Black/Red	Brake Light
4	Blue	Trailer Brake

**Figure 3**

Reference:

Note: Some of this information may also be found in PIWIS.

Cayenne Technical Manual Diagnosis Part 2 (Repair Group 40 to 66), Group 0:

> Repair: 66 Trailer Hitch

Cayenne Technical Manual, Group 9 Circuit Diagrams:

> 97 84 – Fuse Carrier

> Sheet 22, Trailer Hitch Control Unit

Cayenne Technical Manual, Group 0 Diagnosis, Maintenance:

> 03 – Trailer hitch socket maintenance - check operation

Cayenne Technical Manual, Group 6 Diagnosis:

> 669655 Eliminating symptoms in body interior:

Replacing trailer control unit (message in instrument cluster: trailer illumination defective) Cayenne Technical Bulletins:

> Group 6 #27/07>Trailer Hitch (I-no. 1D6) 1st Generation

> Group 6 #1/06>Trailer Hitch Installation Instructions (I-no. 1D6) 2nd Generation

Parts Information

Group 10, #D7 – Cayenne Ball Carrier Specs

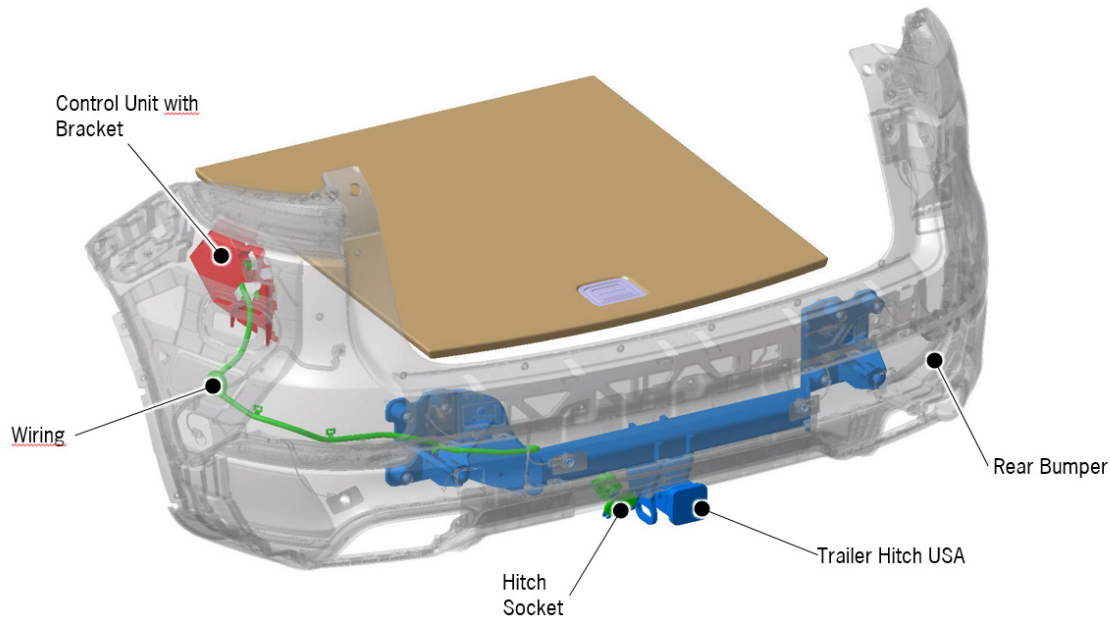
Group 9, #D10 – Cayenne/Macan Trailer Plug

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### USA Trailer Hitch System Cayenne E3



### 9PA, 92A, 95B Trailer CU Location



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