

Trailer Hitch (I-nos. 1D6)



Information

This bulletin replaces bulletin, Group 6, #32/10, dated April 14, 2011.

Information: **Retrofitting**

Model Year: **As of 2011**

Restriction: **NOT** approved for Cayenne S Hybrid: Trailer hitch –mechanical– (I-no. 1D2)

Note: The new Cayenne can be retrofitted with a trailer hitch. Note the following special features:

- Permissible drawbar load of 309 lbs (140 kg)
- Totally versatile wading depth
- Convenient loading and safe parking is assured by removing the ball hitch/bar (mechanical trailer hitch)
- Electrical socket preparation for USA version
- Payload following installation, restricted by higher vehicle curb weight!
- Gross vehicle weight and axle load must not be exceeded!

Parts Info: **958.044.800.91** ⇒ Trailer hitch, mechanical – USA (1D6)

Parts List:

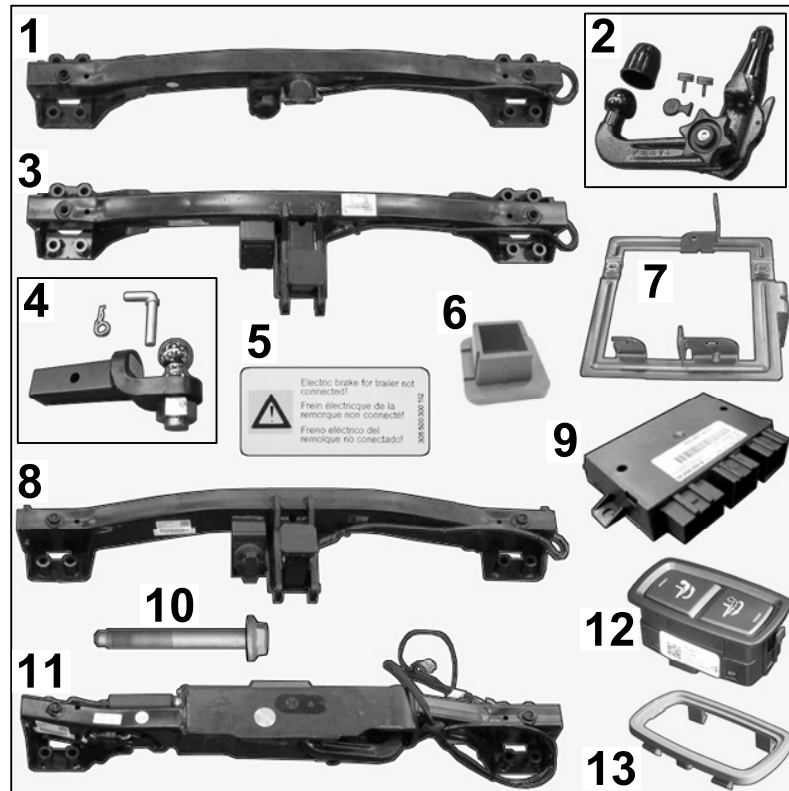


Figure 2

Some parts in Figure 2 are for RoW applications and not listed below.

958.722.004.00 ¹	1 x	Trailer hitch –mechanical– USA / Canada; incl. Wire harness , plug socket preparation ⇒ Figure 2 -3- and plug (ball hitch mount) ⇒ Figure 2 -6-
955.044.000.28 ¹	1 x	Ball hitch –removable–, USA / Canada ⇒ Figure 2 -4-
— — — ¹	1 x	“No tail light” sticker – marking (ONLY for USA) ⇒ Figure 2 -5-
955.722.030.00 ¹	1 x	Plug, USA / Canada ⇒ Figure 2 -6-
958.618.137.00	1 x	Trailer hitch control unit bracket ⇒ Figure 2 -7-
— — — ¹	1 x	Trailer hitch control unit –mechanical–, according to country version (not shown)
N 910.292.02	8 x	Hexagon-head bolt, M12 x 1.5 x 100 ⇒ Figure 2 -10-
N 910.967.01	5 x	Countersunk screw, M6 x 16 (not shown)
N 102.849.05	2 x	Hexagon socket head bolt, M6 x 8 (not shown)

¹ **ONLY** contained in respective set!

Tools:	Torque angle torque wrench Nr.88	Disassembly tool Nr.21
	Socket-wrench insert, Torx T20/25/27/30	Screwdriver, hexagon socket a/f 5
	Open-ended/ring wrench, a/f 8, 10	Socket-wrench insert a/f 17, 19, 21
	Screwdriver	Saw
	Change-over ratchet	Steel drill bit, Ø up to 8.0 mm
	Side cutters	Tap, M12 x 1.5
	Drill	Round/flat file
	Plastic wedge	Flat scraper
	Knife	Shop light

Work Procedure: 1 Preparatory work

- 1.1 Connect battery charger (⇒ *Workshop Manual '2X00IN Battery trickle charging'*).
- 1.2 Remove rear bumper (⇒ *Workshop Manual '635019 Removing and installing rear bumper'*).
- 1.3 Check that the screw threads and contact surfaces for installing the trailer hitch are not dirty, clean them and re-cut the threads using an M12 x 1.5 tap if necessary.

1.4 **ONLY** for vehicles with full-size spare wheel in luggage compartment (I No. 3F4):

- 1** – Full-size spare wheel carrier
- 2** – Luggage compartment cover (version: full-size spare wheel)
- 3** – Luggage compartment side trim panel

1.4.1 Remove spare wheel incl. carrier.

- #### 1.4.2 Remove luggage compartment trim panel (luggage compartment cover) (⇒ *Workshop Manual '700619 Removing and installing trim panel for luggage compartment (luggage compartment cover)'*).

- 1.5 Remove rear right luggage compartment side trim panel (⇒ *Workshop Manual '700319 Removing and installing rear luggage compartment side trim panel'*).

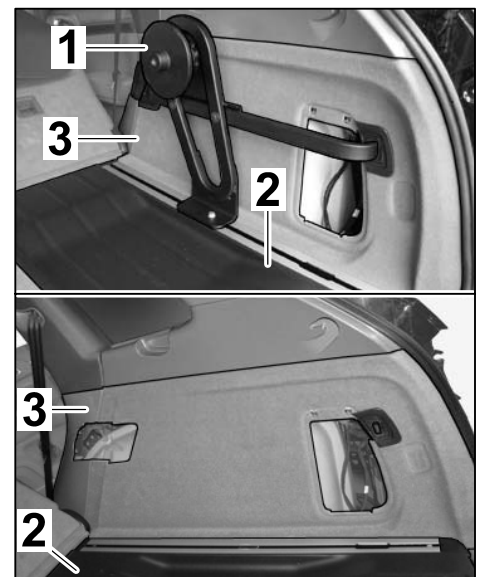


Figure 3

- 1.6 Remove loudspeaker amplifier (⇒ *Workshop Manual '914419 Removing and installing loudspeaker amplifier', ⇒ Figure 4*).

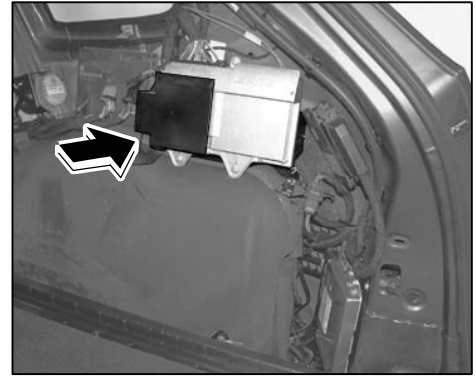


Figure 4

- 1.7 **Only** vehicles with reversing camera with ParkAssist (I No. 7X8) and / or TV tuner (I-No. QV1):

- 1** – Combination holder
- 2** – TV tuner
- 3** – Reversing camera control unit

- 1.7.1 Remove combination holder with reversing camera control unit and TV tuner control unit (see also ⇒ *Workshop Manual '669619 Removing and installing trailer hitch control unit'*).

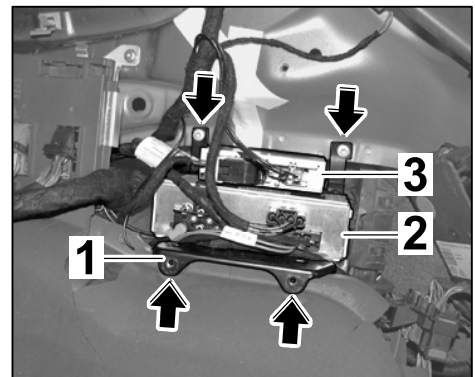


Figure 5

- 1.7.2 Swivel combination holder with control unit(s) to one side.

- 2 Install trailer hitch control unit (see also ⇒ *Workshop Manual '669019 Removing and installing trailer hitch'*).

- 2.1 Attach trailer hitch to vehicle

- 2.1.1 Attach the trailer hitch using 8 new bolts M12 x 1.5 x 100 and tighten by hand.

2.1.2 Align bolt guides for the trailer hitch (⇒ *Figure 6 -A-*) symmetrically with respect to the eight bolt heads M12 x 1.5 x 100 (⇒ *Figure 6 -Pfeile-*).

A – Bolt guides

2.1.3 Tighten trailer hitch fully.
tightening torque 120 Nm

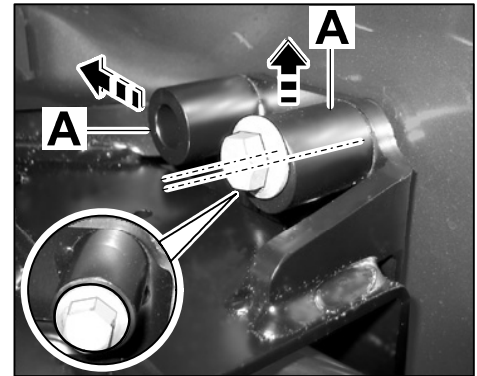


Figure 6

2.2 Route electric wire harness for trailer hitch in the vehicle interior (see also ⇒ *Workshop Manual '972419 Removing and installing wire harness for removable trailer hitch'*).

- 1** – Pre-fitted rubber grommet (Ø 40 mm)
- 2** – Dummy plug (Ø 29 mm)
- 3** – Threaded bolt

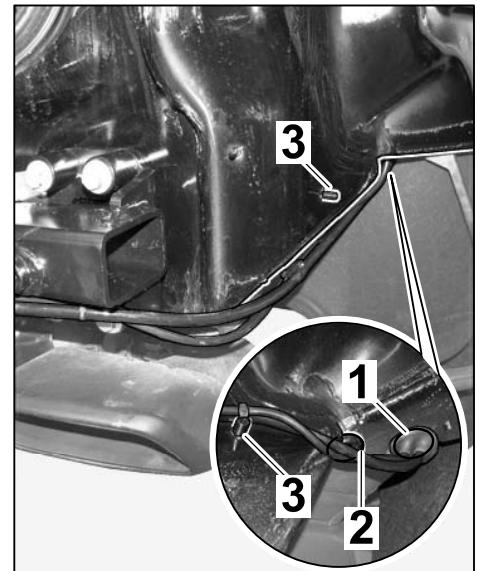


Figure 7

NOTICE

Incorrect line routing

- Risk of damage to lines and hoses
 - Malfunction and fault memory entry on control unit
- ⇒ Avoid small bending radii when routing lines.
- ⇒ File down edges and burrs in the routing area or mask them with adhesive tape.
- ⇒ Maintain a sufficient distance from components exposed to high temperatures while driving.

- 2.2.1 Remove dummy plug (Ø 40 mm) from vehicle floor and route trailer hitch wire harness in luggage compartment.
 - 2.2.2 Guide the electric wire harness into the vehicle as far as necessary to ensure a sufficient distance to the exhaust system.
 - 2.2.3 Insert pre-fitted rubber grommet (⇒ *Figure 7-1-*) into the bore (Ø 40 mm) in the body.
 - 2.2.4 Attach pre-fitted tie-wrap (wire harness) to threaded bolt (⇒ *Figure 7-3-*).
- 2.3 Route electric wire harness (in vehicle interior) connect.

Trailer hitch connection diagram

- 1** – “Black” (16-pin) connector → trailer hitch control unit
- 3** – “Blue” (12-pin) connector “Not For USA” → trailer hitch control unit (**ONLY** trailer hitch –electric–)
- 4** – “Black” (10-pin) connector “Not For USA” → control switch (**ONLY** trailer hitch –electric–)
- 5** – “Green” (6-pin) connector → disconnection point “1HER_P” (connector strip for existing wiring for trailer hitch)

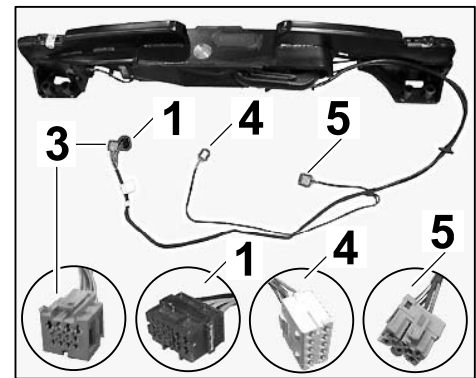


Figure 8



Information

Depending on vehicle equipment (e.g. with reversing camera with ParkAssist (I No. 7X8) and / or TV tuner (I No. QV1) the trailer hitch control unit is installed on different brackets / at different positions.

Position of trailer hitch control unit

- A** – Trailer hitch control unit, horizontal position
- B** – Trailer hitch control unit, vertical position
- 1** – Reversing camera with ParkAssist control unit (I No. 7X8)
- 2** – Trailer hitch control unit
- 3** – Connector strip for existing wiring
- 4a** – Control unit holder, parts package (version: Vehicles **WITHOUT** TV tuner)
- 4b** – Control unit holder (version: Vehicles **WITH** TV tuner)
- 5** – TV tuner control (I No. QV1)

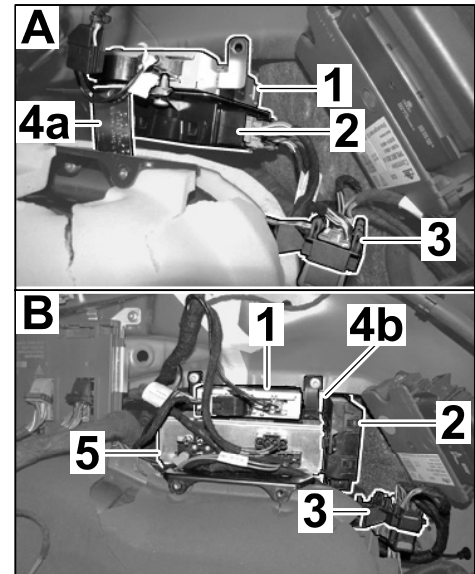


Figure 9

2.3.1 Route electric wire harness as follows:

- 1** – “Black” connector (16-pin)
- 2** – “Red” connector = preparation (pre-installed in vehicle)
- 3** – “Blue” connector (12-pin)
- 4** – “Black” connector (10-pin)
- 5** – “Green” connector (6-pin)
- 6** – Trailer hitch control unit holder (variant **WITHOUT** TV tuner)
- 7** – Connector strip disconnection point “1HER_P”
- 8** – Trailer hitch control unit
- 9** – Rectangular cut-out (in body)

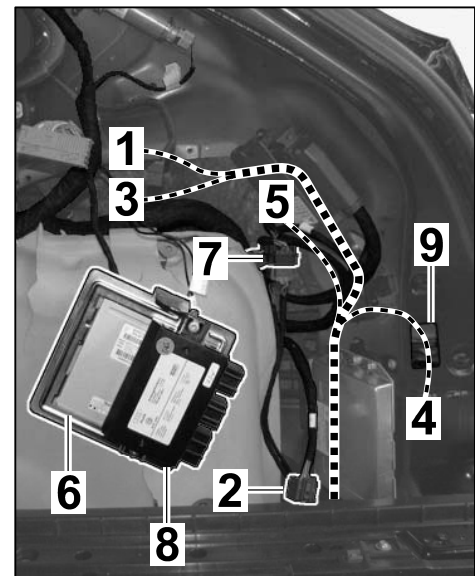


Figure 10

- “Black” and “blue” connectors → along standard wire harness → installation position, trailer hitch control unit (⇒ Figure 10-1 & 3-);
- “Red” connector → expose preparation (pre-installed in vehicle) ⇒ Figure 10-2- → along standard wire harness → installation position, trailer hitch control unit (⇒ Figure 10-1 & 3-);

- **ONLY** electrically extendable trailer hitch (Not For USA) : “Black” connector (⇒ Figure 10-4-) → along standard wire harness → rectangular cut-out (in body, ⇒ Figure 10-9-);
- “Green” connector (⇒ Figure 10-5-) → connector strip disconnection point “1HER_P” (connector strip for existing wiring for trailer hitch, ⇒ Figure 10-7-)

2.3.2 Connect plug connections to trailer hitch control unit (⇒ Figure 11).

- A** – Trailer hitch –electric– control unit “Not For USA”
B – Trailer hitch –mechanical– control unit
- 1** – “Black” connector (16-pin)
2 – “Red” connector = preparation (pre-installed in vehicle)
3 – “Blue” connector (12-pin, “Not For USA” **ONLY** trailer hitch –electric–)

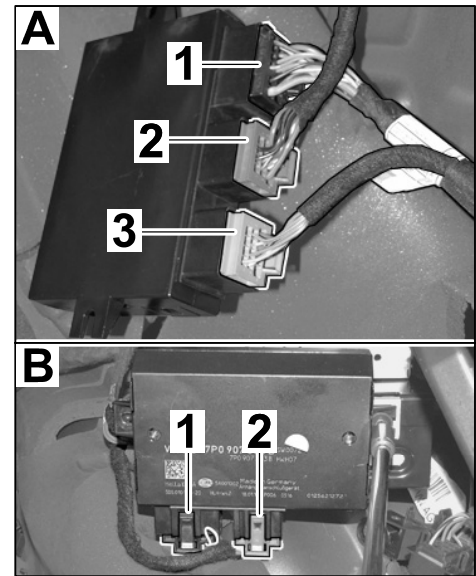


Figure 11

2.3.3 Position trailer hitch control unit in the relevant holder and fasten using countersunk screws M6 x 16 (2 x) .
tightening torque 4.5 Nm

2.3.4 Plug “green” connector in connector strip disconnection point “1HER_P”.

- 1** – “Green” connector (6-pin, existing trailer hitch wiring)
2 – Connector strip disconnection point “1HER_P”

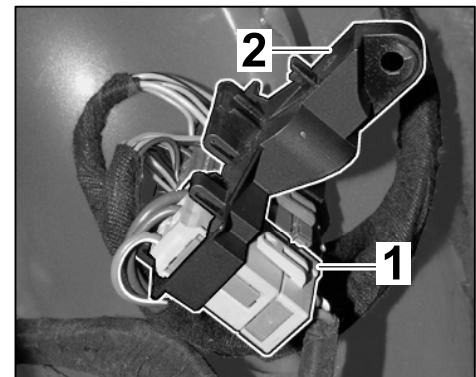


Figure 12

3 Concluding work

3.1 Position and attach trailer hitch control unit / combination holder with control units (see also ⇒ Workshop Manual '669619 Removing and installing trailer hitch control unit'
tightening torque 4.5 Nm

3.2 Install loudspeaker amplifier (⇒ Workshop Manual '914419 Removing and installing loud-speaker amplifier').
tightening torque 8 Nm

- 3.3 **ONLY** for vehicles full-size spare wheel in luggage compartment (I No. 3F4):
 - 3.3.1 Install luggage compartment trim panel (luggage compartment cover) (⇒ *Workshop Manual '700619 Removing and installing trim panel for luggage compartment (luggage compartment cover)*).
 - 3.3.2 Install spare wheel incl. carrier.
- 3.4 Install rear bumper (⇒ *Workshop Manual '635019 Removing and installing rear bumper*).
- 4 Code trailer hitch and carry out function test
 - 4.1 Connect PIWIS Tester 2 9818 , switch on ignition.
 - 4.2 Select vehicle type “Cayenne from MY 2011”. Press **F12** to continue.
 - 4.3 Enter trailer hitch in vehicle order
 - 4.3.1 Switch to the control unit overview by touching the “Overview” cell. Press the **F7** to switch to the “Additional menu” item.
 - 4.3.2 When the question: Create Vehicle Analysis Log (VAL)? appears, continue by pressing **F11** .
 - 4.3.3 Select the “Management of vehicle order” function. Continue pressing **F12** until “PR numbers” is displayed in the Value group column.
 - 4.3.4 Select “TRAILER HITCH” in the Family column and switch to the Value column. A drop-down menu opens. Select the relevant retrofitted trailer hitch from the list. Continue by pressing **F8** .
 - 4.3.5 Wait for the message “Modified values have been buffered” and checkmark next to the value, e.g. “TRAILER HITCH. EL. RETRACTABLE”. Confirm the changes several times by pressing **F12** and then write by pressing **F8** .
 - 4.3.6 Wait for the message “Creation of vehicle order has been completed.” Continue to Log management by pressing **F12** .
 - 4.3.7 Open the log by pressing **F10** and check that vehicle equipment “Trailer hitch” has been entered, then close the log.
 - 4.3.8 Press **F11** to switch to the control unit overview.
 - 4.4 Code trailer hitch
 - 4.4.1 Switch to the “Automatic coding” of control units mode in the “Codings/adaptations” menu. Press **F12** to continue.
 - 4.4.2 When coding has been successfully completed, a part number (e.g. 7P0907383C) is displayed in the “Part number” column in the control unit overview under “Trailer hitch”.
 - 4.5 Once coding is complete, read out the fault memories of all systems, correct any existing faults and erase the fault memory (⇒ *Workshop Manual '0X03IN Maintenance diagnosis: Diagnosis system and maintenance inter...*).

- 4.6 Switch off ignition and disconnect the PIWIS Tester 2 9818 .
- 4.7 Disconnect battery charger. (⇒ *Workshop Manual '2X00IN Battery trickle charging'*).

<p>Working Time: 66 90 23 00 –Retrofitting mechanical trailer hitch–</p> <p>Includes: Removing and installing rear apron and side trim panel for rear luggage compartment, mounting and coding trailer hitch.</p> <p>Without: Removing and installing spare wheel incl. carrier (ONLY vehicles with full-size spare wheel in luggage compartment [I No. 3F4]).</p>	<p>Labor time: 270 TU</p>
<p>66 90 23 03 –Retrofitting mechanical trailer hitch–</p> <p>Includes: Removing and installing rear apron and rear side trim panel for luggage compartment, converting side trim panel, installing control switch, coding trailer hitch and initializing trailer hitch control unit.</p> <p>Without: Removing and installing spare wheel incl. Carrier (ONLY for vehicles full-size spare wheel in luggage compartment [I No. 3F4]).</p>	<p>Labor time: 290 TU</p>

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