

Trailer Hitch (I-no. 1D6)

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

Model Year: **As of 2003 up to 2006**

Filing: This Technical Information bulletin replaces bulletin Group 6, #6/04, dated 6-23-06

Situation: **Retrofitting**

Concerns: **ONLY** for vehicles with "trailer hitch" preparation [up to MY '04: I-no. 1D8, the preparation comes as standard as of MY '04].

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

- Permissible hitch tongue weight of 308 lbs (140 kg)
- Totally versatile fording depth
- Standard 7-pin socket (USA version)
- Payload following installation, restricted by higher vehicle curb weight!
- Gross vehicle weight rating and axle load must not be exceeded!

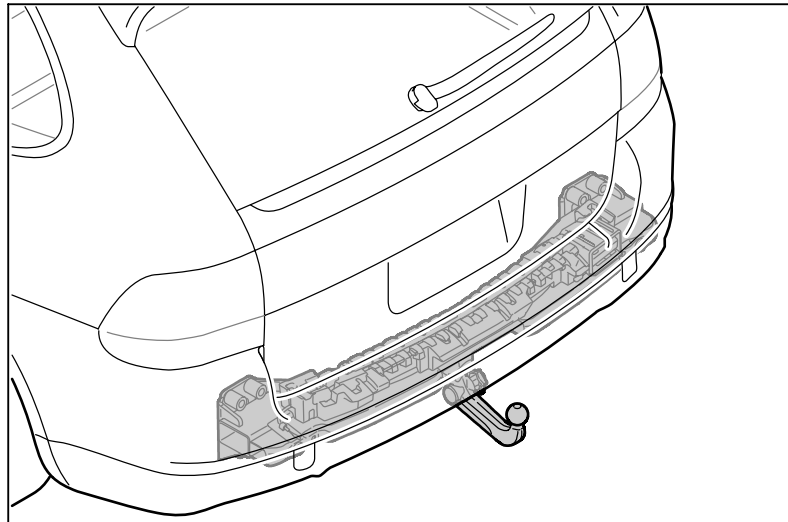


Figure 1

Parts Info: **955.044.002.74** ⇒ Trailer hitch, mechanical – USA

The following parts must be ordered separately for pre-MY '06 vehicles:

N 909.892.01

8 x

⇒ Hexagon-head bolt M14 x 1.5 x 100 (for securing trailer hitch to body)

Parts List:



Figure 2

Some items shown in Figure 2 are not available for the North American market.

955.722.004.01	1 x	Trailer hitch – complete (not shown)
955.613.164.00.6N3	1 x	Control switch ⇒ Figure 2 -D-
955.613.166.00.01C	1 x	Control switch installation frame ⇒ Figure 2 -E-
955.044.000.28	1 x	Ball bar, removable – complete ⇒ Figure 2 -G-
955.722.030.00	1 x	Plug, USA/Canada variant ⇒ Figure 2 -H-
---	1 x	Trailer hitch control unit ⇒ Figure 2 -I-
N 910.292.03	8 x	Hexagon-head bolt, M12 x 1.5 x 100 (vehicles as of MY '06) ⇒ Figure 2 -K-
955.647.153.00	2 x	Clip for KESSY ⇒ Figure 2 -L-
N 909.975.01	1 x	Hose holder ⇒ Figure 2 -M-
N 102.856.01	4 x	Screw, M6 x 25 ⇒ Figure 2 -N-
N 904.759.02	1 x	Sheetmetal press nut ⇒ Figure 2 -O-

N 103.383.01	1 x	Screw, M5 x 12 ⇒ <i>Figure 2 -P-</i>
N 910.260.01	1 x	Internal serration screw, M10 x 20 ⇒ <i>Figure 2 -R-</i>
---	10 x	Tie-wrap, 150 mm (not shown)
---	1 x	10 A fuse (not shown)
---	3 x	15 A fuse (not shown)
---	1 x	25 A fuse (not shown)
---	1 x	30 A fuse (not shown)
---	1 x	“No tail light” sticker – marking for USA only (not shown)

Spare Parts:

955.612.506.00	1 x	Electric wire harness
955.618.040.02	1 x	Control unit, trailer hitch
955.044.000.28	1 x	Ball bar
955.722.030.00	1 x	Plug
955.612.520.00	1 x	Wire sleeve

Materials:

---	--	Double-sided adhesive tape and/or adhesive (commercially available)
---	--	Silicon remover (commercially available)

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 or electric knife
Ratchet	Steel drill bit, Ø up to 8.0 mm
Side cutters	Tap, M12 x 1.5 or M14 x 1.5
Drill	Round/flat file
Plastic wedge	Scraper
Knife	Electric torch

Notes: For further information on using and maintaining the trailer hitch, see CayenneOwner’s Manual; topics: “Trailer hitch”; “Trailer load”; “Trailer”; etc.



ATTENTION

Saws or knives can damage adjacent

- **components.**

⇒ **Mask the cutting area.**

⇒ **Be very careful when working (sawing) in this area.**

Work Procedure: 1 Preparatory work.

1.1 Switch off ignition and remove ignition key.



WARNING

Working on the vehicle electrical system

- **Risk of short circuit and fire.**

⇒ **Disconnect and cover the battery.**

⇒ **Route electric wires without tension so that no chafing occurs.**

⇒ **Secure electric wires to existing wires/components using tie-wraps and/or wrapping tape.**

1.2 Disconnect and cover the battery, then connect the power supply while the vehicle is in the workshop ⇒ *Technical Information '270600 Battery: Battery care and maintenance/power supply'*.

1.3 Remove rear bumper ⇒ *Workshop Manual '635019 Removing and installing rear bumper - section on "Removing"*.

1.4 Remove side trim panel for rear right luggage compartment ⇒ *Workshop Manual '700319 Removing and installing side trim panel for rear luggage compartment - section on "Removing"*.

1.5 Remove warning triangle and first-aid kit in the rear right wheel arch area ⇒ *Figure 3-B-*.

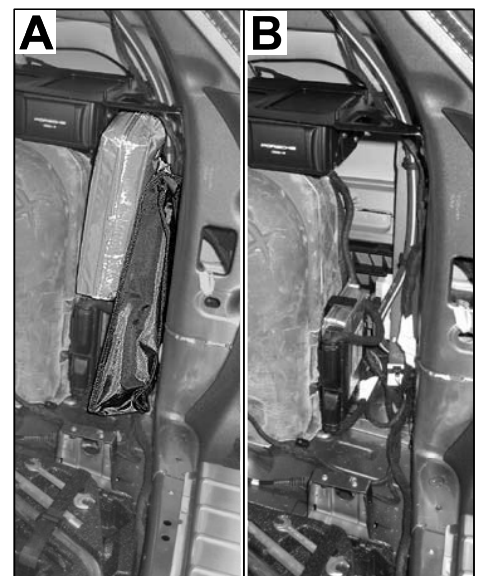


Figure 3

- 1.6 Remove foam insert from the inner side panel
 ⇒ *Figure 4 -inset-*.

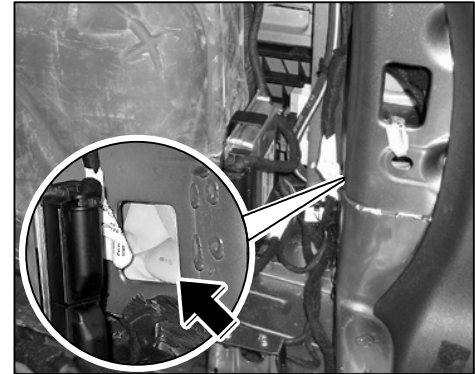


Figure 4

- 1.7 **ONLY** for vehicles with level adjustment control unit:
 Pull up clamps on level adjustment control unit support ⇒ *Figure 5 -arrow-* (if fitted) and swivel control unit out of the bracket.

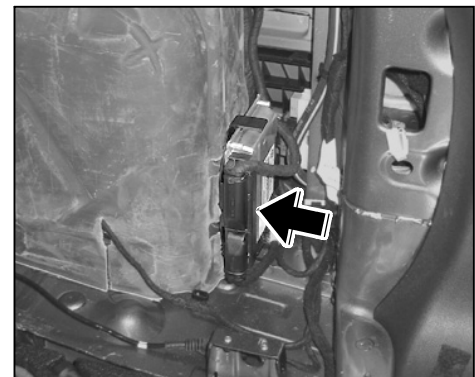


Figure 5

- 1.8 Loosen the two clips ⇒ *Figure 6 -A, arrows-* on the support for the rear-end control unit ⇒ *Figure 6 -A1-* together with the tilt sensor control unit (⇒ *Figure 6 -A2-* if installed ⇒ *Workshop Manual '966319 Removing and installing control unit for tilt sensor - section on "Removing"*) and lay support aside ⇒ *Figure 6 -B-*.

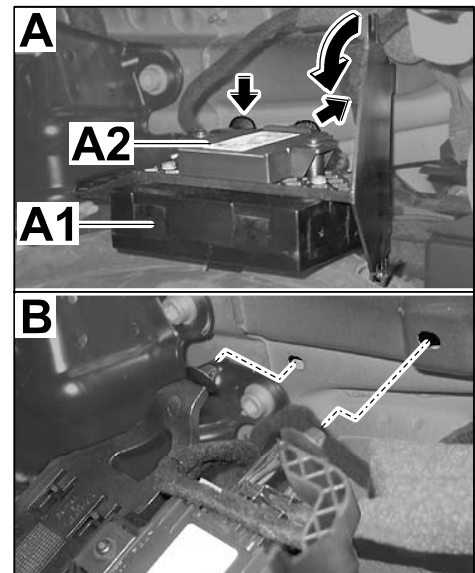


Figure 6

2 Fit the trailer hitch and foam parts ⇒ *Workshop Manual '669019 Removing and installing trailer hitch - section on "Installing"*.

2.1 Check that the screw threads and contact surfaces (⇒ *Figure 7 -A-*) for fitting the trailer hitch are not dirty. Clean them and re-cut the threads using an M12 x 1.5 tap, or using an M14 x 1.5 tap on older vehicles, if necessary.

2.2 Fit the trailer hitch and tighten hand-tight at the left and right using eight new screws (M12 x 1.5 x 100, or M14 x 1.5 x 100 on older vehicles) ⇒ *Figure 7 -B-*.

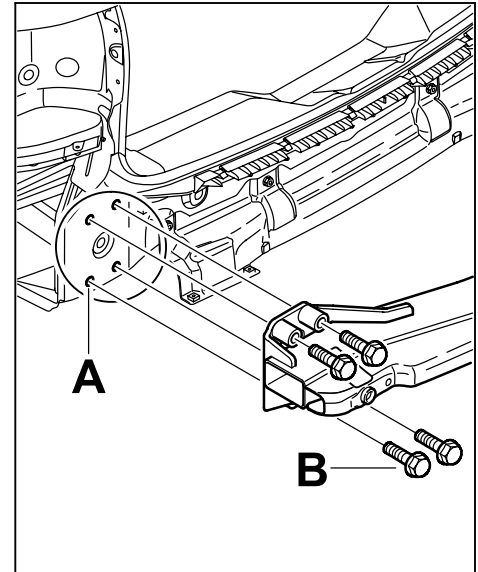


Figure 7

2.3 Align screw guides for the trailer hitch ⇒ *Figure 8 -A-* symmetrically with respect to the eight screw heads ⇒ *Figure 8*.

2.4 Tighten trailer hitch fully.
Tightening torque 100 Nm (74 ftlb.) +90°

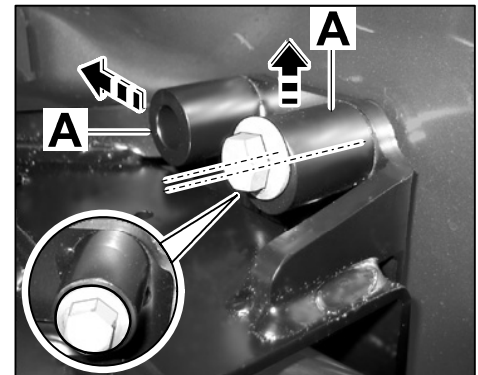


Figure 8

2.5 Fit foam part on trailer hitch

A – Foam part for mechanical trailer hitch

B – Foam part — Not For USA

2.5.1 **ONLY** for vehicles with spare wheel carrier:
Select foam part for the relevant model year and cut it according to the marking ⇒ *Figure 9*.

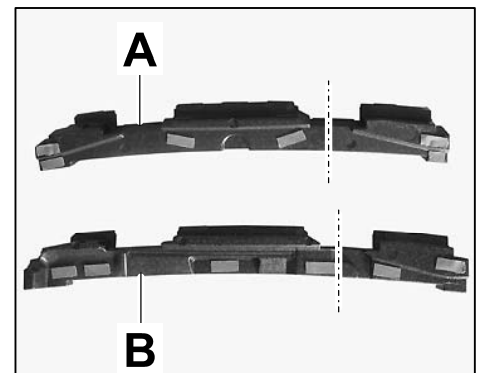


Figure 9

2.5.2 Select foam part ⇒ *Figure 10 -A-* corresponding to the trailer hitch version and adapt it to suit the trailer hitch at the underside, close to the mounting point for the spare wheel carrier lock using a knife ⇒ *Figure 10 -B-*.

2.5.3 Remove double-sided adhesive tape from the section you cut off and stick it on the cut surface ⇒ *Figure 10 -B, arrow-*.

2.5.4 Pull strips of film off the adhesive pads on the underside of the foam part and stick adapted foam part to the trailer hitch.
 Use more double-sided adhesive tape if necessary (commercially available).

2.5.5 **ONLY** for vehicles with spare wheel carrier:
 Screw off holder for spare wheel mount lock from the standard carrier and screw it to the trailer hitch using the four screws ⇒ *Figure 11 -arrows-*. ⇒ *Workshop Manual '446019 Removing and installing holder for spare wheel mount lock'*.
Tightening torque 10.5 Nm (8.0 ftlb.) +/- 1 Nm (+/- 0.5 ftlb.)

Position electric lines for lock in foam part and connect plug connections ⇒ *Figure 11 -A and B-* to lock.

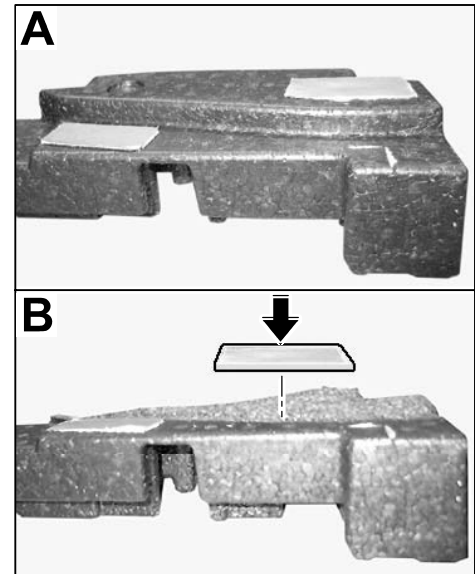


Figure 10

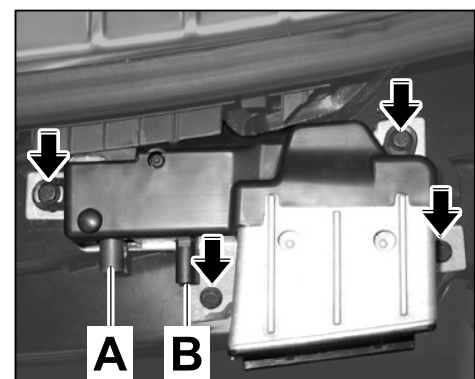


Figure 11

- 2.5.6 **ONLY** for vehicles with spare wheel carrier and KESSY system:
Secure right KESSY antenna
⇒ *Figure 12 -B1-* to the trailer hitch support using two clips ⇒ *Figure 12 -A, arrows-*.

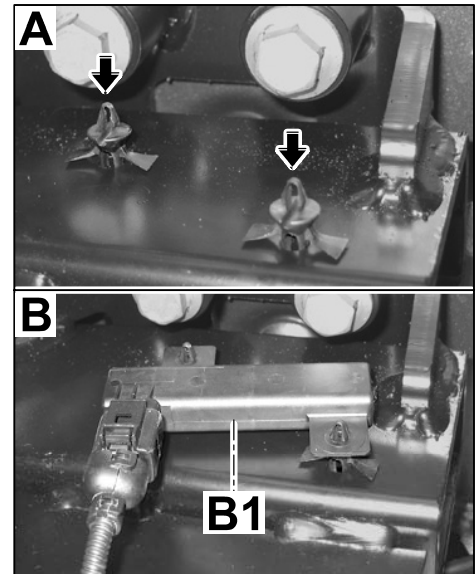


Figure 12

- 2.5.7 **ONLY** for vehicles with KESSY system:
Insert antennas and wire harness into the foam part ⇒ *Workshop Manual '966719 Removing and installing antenna for KESSY/PAS-* section on "Installing".

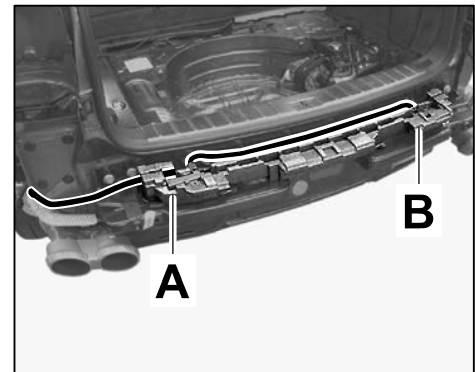
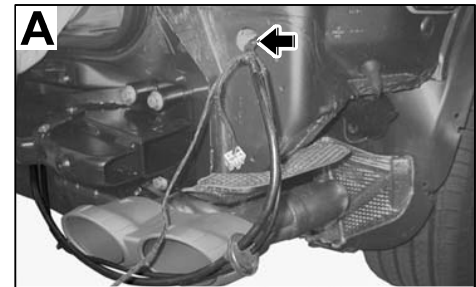


Figure 13

3 Route and connect electric wire harness.

3.1 Remove rubber sleeve from side panel and guide all electric wire harness connectors through the bore ⇒ *Figure 14 -A, arrow-* and into the passenger compartment. Insert pre-fitted rubber sleeve into the bore on the body.



3.2 Guide the wire harness into the vehicle as far as necessary to ensure a sufficient distance from the trailer hitch (clip on underside ⇒ *Figure 14 -B, arrow-*) and from the exhaust system ⇒ *Figure 14 -B, X-*.

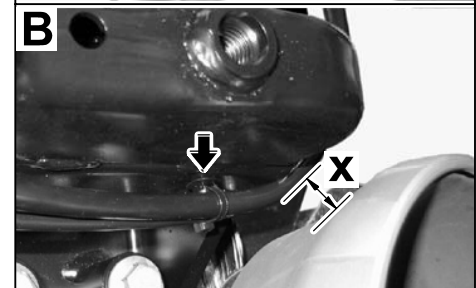


Figure 14

3.3 Trailer hitch connection diagram

- A** – 16-pin connector (black) → trailer hitch control unit, connector A
- C** – 12-pin connector (blue) → trailer hitch control unit, connector C
- D** – 10-pin connector (white) → switch (not for USA)
- E** – 6-pin connector (green) → 4DR connection point (trailer hitch preparation)

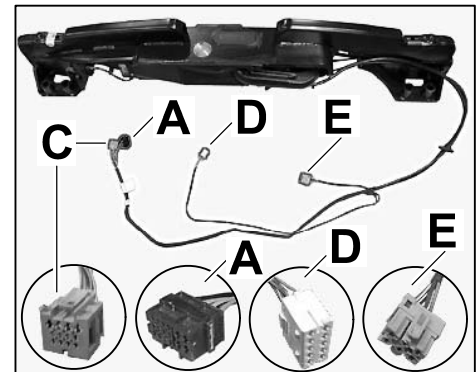


Figure 15

3.4 Route electric wire harness as follows:
Connector E (green) → connector strip for existing wiring for trailer hitch ⇒ *Figure 16 -E-*;
Route wire harness from inner side panel behind the CD autochanger and amplifier to the control unit installation position and fix in place.

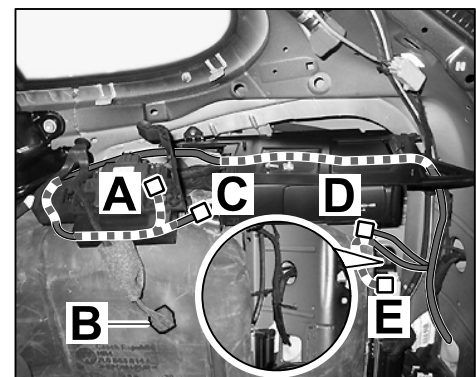


Figure 16

3.5 Install trailer hitch control unit ⇒ *Workshop Manual '669619 Removing and installing trailer hitch control unit - section on "Installing"*.

3.5.1 Fit M5 sheetmetal press nut ⇒ *Figure 17 -A-* to the control unit support ⇒ *Figure 17 -B-*.

3.5.2 Fit trailer hitch control unit ⇒ *Figure 17 -C-* on the control unit support and secure with the M5 x 12 screw ⇒ *Figure 17 -D-*.

**Tightening torque 3.5 Nm
(2.5 ftlb.) +/-0.5 Nm (+/-0.5 ftlb.)**

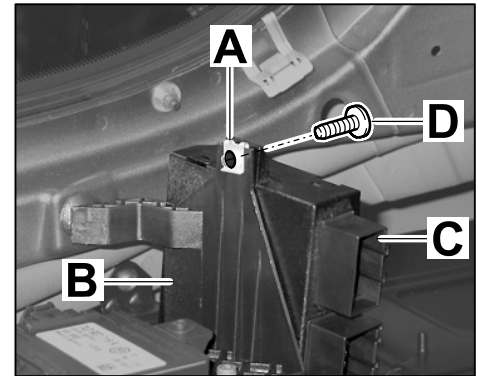


Figure 17

3.6 Plug in connector A (black ⇒ *Figure 18 -A1-*)/connector B (red ⇒ *Figure 18 -A2-*)/connector C (blue ⇒ *Figure 18 -A3-*) from top to bottom on the trailer hitch control unit.

Position foam sleeve (prevents rattles and chafing) back over connector B ⇒ *Figure 18 -B-*.

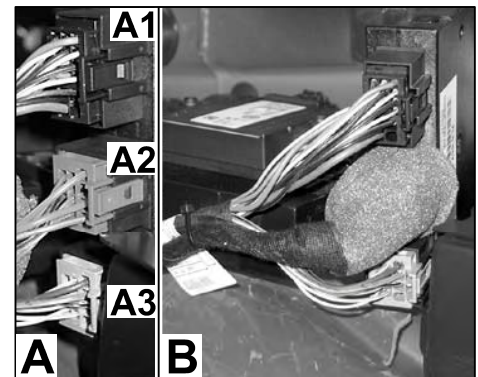


Figure 18

3.7 Plug in connector E (green, ⇒ *Figure 19 -A-*) on connector strip for 4DR connection point at the top.

3.8 **ONLY** for vehicles with level adjustment control unit:
Fit level adjustment control unit ⇒ *Figure 19 -B-*) into bracket and press clamp into control unit support.

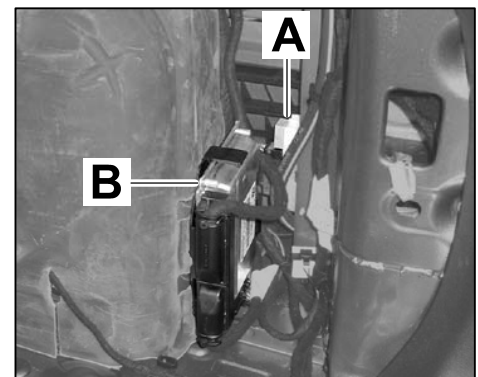


Figure 19

4 Concluding work.

- A** – Marking for trailer hitch — USA
- B** – Not for USA
- C** – Not for USA

4.1 Make a cut-out for the ball hitch in the rear apron.

4.1.1 Draw the embossed marking for the relevant trailer hitch variant on the inside of the rear apron with a clearly visible pen ⇒ *Figure 19*.

4.1.2 Carefully make the cut-out according to the marking.

4.1.3 Smooth off cut edges with a file or scraper.

4.2 Install rear apron ⇒ *Workshop Manual '635519 Removing and installing rear apron - section on "Installing"*.

ONLY for vehicles with a mechanical trailer hitch:
 Fit cover for rear apron.

4.3 Fit fuses for the trailer hitch electrical system ⇒ *Workshop Manual '9784IN Fuse carrier'*.

4.3.1 Remove fuse box cover from dashboard at the right.

4.3.2 Insert the following fuses into the slots:

Worldwide: Slots 1 = terminal 30 (trailer left)/3 = terminal 30 (switched) and 5 = terminal 30 (trailer right) → 15 A each

ONLY for trailer hitch: Slot 19 = terminal 30 → 25 A

4.3.3 Install fuse box cover on dashboard at the right.

4.4 Install side trim panel for rear right luggage compartment. ⇒ *Workshop Manual '700319 Removing and installing side trim panel for rear luggage compartment'*

4.5 Place first-aid kit and warning triangle in the side panel area, fix them in place and fit cover of side trim panel for the rear right luggage compartment.

4.6 Connect battery and fit battery cover.

4.7 Code trailer hitch using the PIWIS Tester 9718 .

4.7.1 Read out the fault memory for the trailer hitch control unit and erase it.

4.7.2 Code the trailer hitch control unit. ⇒ *Workshop Manual '669619 Removing and installing trailer hitch control unit'*

4.7.3 Once coding is complete, read out the fault memories of all systems. Correct any existing faults and then erase them.

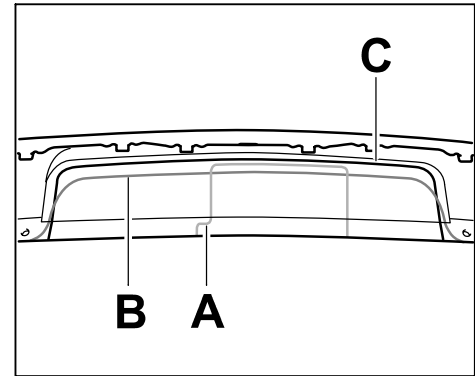


Figure 19

6

Equipment

6690 ENU **27/07**

Technical Information

Working Time: 66 90 23 00 –Retrofitting mechanical trailer hitch–

Labor time: **360 TU**

Includes: Removing and installing rear apron and side trim panel for rear luggage compartment, cutting out rear apron, coding trailer hitch.

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