

Trailer Hitch – Mechanical (1D6)

Revision: This bulletin replaces bulletin Group 6 3/15, dated March 12, 2015.

Model Year: **As of 2014 up to 2018**

Information: **Retrofitting**

Restrictions: **ONLY** approved for USA, Puerto Rico (C02) and Canada (C36)!
NOT approved in conjunction with stainless steel rear panel (2JX)!



Figure 1

Notice: The Macan can be retrofitted with a trailer hitch (⇒ Figure 1). Note the following special features:

- Permissible tongue weight of 200 kg/ 440 lbs (maximum)
- Plug socket preparation for USA version
- Payload following installation, restricted by higher vehicle kerb weight!
- Permissible total weight and axle load must not be exceeded!

The trailer hitch is also available ex works for new vehicles by requesting optional equipment "1D6 = Mechanical trailer hitch".

**Information**

Further information/technical values, instructions for using the trailer hitch and "Driving with a trailer" can be found in the:

- Exceptional conditions for the 'Auto Start Stop' function **if a trailer is detected** Observe Driver's Manual (bicycle rack or trailer connector inserted) in the vehicle! In this case, the **"Auto Start Stop" function is deactivated** (display on the multi-function display/warning signal when stationary while driving).
- Macan Driver's Manual, topics: "Trailer Hitch", "More Safety and More Driving Pleasure" and "Weights"
- Vehicle registration documents

Parts Info: **95B.044.802.31** ⇒ Towbar system – mechanical – USA (1D6), set

Parts List:

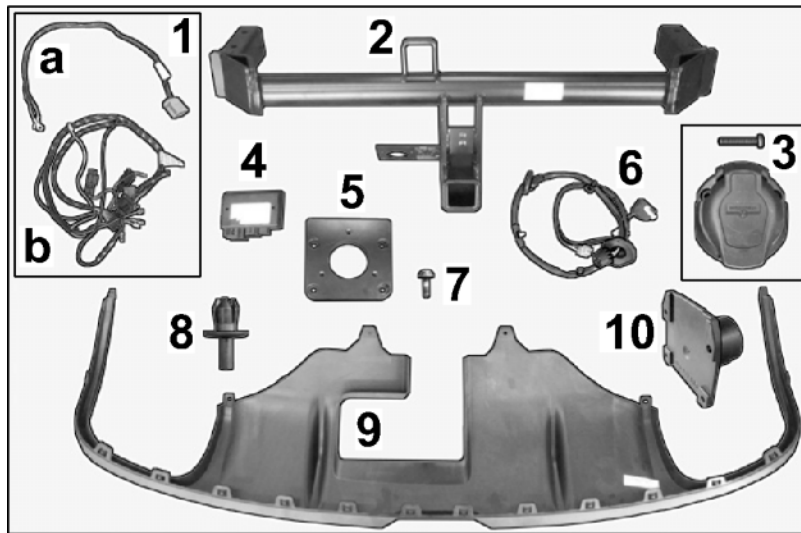


Figure 2

95B.044.802.35	1 x	Wire harness (⇒ Figure 2-1-) consisting of:
— — —	1 x	Ground line for trailer hitch ⇒ Figure 2-1a-
— — —	1 x	Wiring harness for control unit ⇒ Figure 2-1b-
8R0.800.491.A	1 x	Trailer hitch ⇒ Figure 2-2-
4H0.907.383.M	1 x	Control unit for mechanical trailer hitch ⇒ Figure 2-4-
95B.971.124 ¹	1 x	Wire harness (USA, not shown)
N. 910.742.01	4 x	Screw, M5 x 16 ⇒ Figure 2-7-
N.038.549.4	2 x	Expansion rivet, A8 x 12 ⇒ Figure 2-8-
95B.807.834.D .1E0	1 x	Rear panel, black ⇒ Figure 2-9-
7L5.971.885 ¹	1 x	Cap (USA) ⇒ Figure 2-10-

7L0.803.593	1 x	Stopper for cover, square (not shown)
N . 907.721.02	4 x	Bolt, M10 x 105 x 45 (not shown)

¹ Only contained in set 95B.044.802.31.

Materials:	— — —	1 x	30 amp fuse (commercially available)
	— — —	3 x	20 amp fuse (commercially available)
	— — —	1 x	Isopropanol (commercially available)
	— — —	1 x	Cloth

- Tools:
- Nr.88 - Torque angle torque wrench**
 - VAS 6933 Disassembly tool**
 - 9900 - PIWIS Tester 3**
 - Saw or vibrating knife
 - Steel drill bit, Ø up to 8.0 mm
 - Round/flat file
 - Drill
 - Flat scraper
 - Plastic wedge
 - Flashlight
 - Knife

- Assembly:
- 1 Preparatory work
 - 1.1 Remove rear bumper. ⇒ *Workshop Manual '635519 Removing and installing rear bumper'*
 - 1.2 Removing the center luggage compartment trim (load compartment cover). ⇒ *Workshop Manual '700619 Removing and installing centre luggage compartment trim (luggage compartment cover)'*
 - 1.3 Remove side luggage compartment trim panel (luggage compartment cover). ⇒ *Workshop Manual '700619 Removing and installing side luggage compartment trim (luggage compartment cover)'*
 - 1.4 Removing cover for rear lock carrier. ⇒ *Workshop Manual '703919 Removing and installing cover for rear lock carrier'*
 - 1.5 Removing side trim panel for right luggage compartment. ⇒ *Workshop Manual '700319 Removing and installing rear luggage compartment side trim panel'*
 - 1.6 Removing rear bumper. ⇒ *Workshop Manual '635019 Removing and installing bumper rear'*
 - 1.7 Disconnect the battery. ⇒ *Workshop Manual '2X00IN Work instructions after disconnecting battery'*

2 Electrical work in passenger compartment

2.1 Route and connect ground line

2.1.1 Disconnect pin connector socket, green (towbar system preparation) from the holder from the rear.

⇒ *Figure 3*

- 1 – Pin connector socket, green (towbar system preparation)
- 2 – Bracket
- 3 – Plug (socket) towbar system plug socket

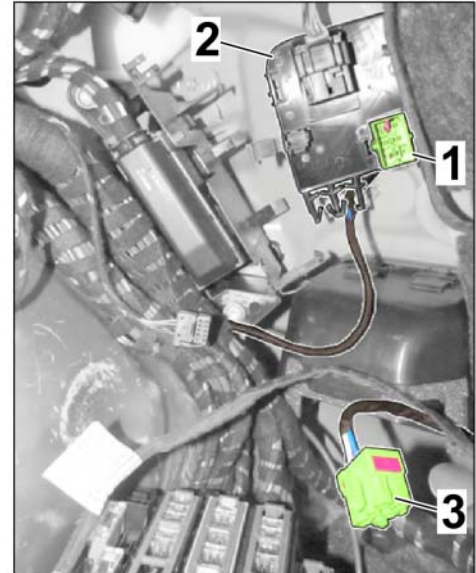


Figure 3

2.1.2 Unlock pin connector socket (preparation) and push line BL 2.5² out of pin 6.

2.1.3 Unlock a new green pin connector socket (ground line) and push line BL 2.5² into chamber 6.

Lock the new green pin connector housing (ground line).

2.1.4 Install green pin connector socket (ground line) into the holder from the rear. ⇒ *Figure 4 -Arrow-*

- 1 – Ground line
- 2 – Cap nut for ground pin 42

2.1.5 Route ground line to ground pin 42 (rear, right). ⇒ *Figure 4*

2.1.6 Install cable ring eyelets onto ground pin 42 and fasten loosely with cap nut. ⇒ *Figure 4-2-* Another cable ring eyelet will be installed on the ground pin 42 later.

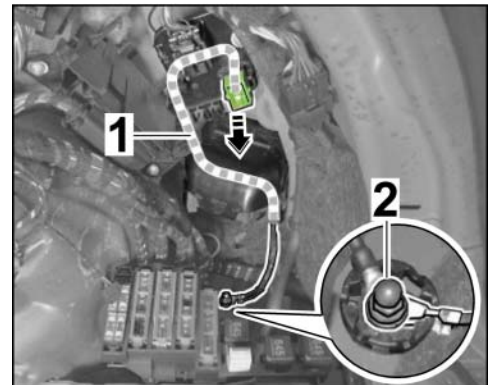


Figure 4

2.2 Install trailer hitch control unit and close it

2.2.1 Clip trailer hitch control unit into bracket. ⇒ *Figure 5*

- 1 – Trailer hitch control unit
- 2 – Towbar system preparation
- 3 – Main wire harness
- 4 – Bracket



Information

Wire harness for trailer hitch preparation is secured to the main wire harness in the luggage compartment at the right ⇒ *Figure 4 -3-*.

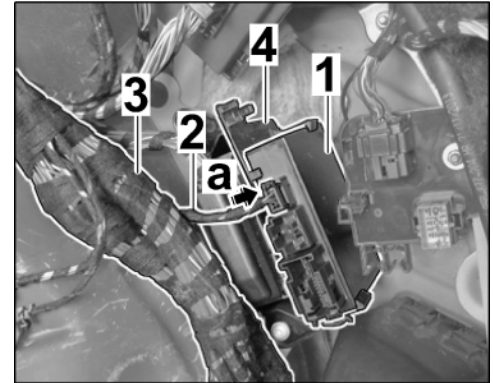


Figure 5

2.2.2 Disconnect towbar system preparation connector from main wiring harness.

2.2.3 Connect plug connection for trailer hitch preparation to the control unit. ⇒ *Figure 5 -a-*

2.3 Prepare control unit wire harness for installation

- A – Wire harness for control unit (RdW version)
- B – Wire harness for control unit (USA)
- 1 – Branch for electric towbar system button

2.3.1 Remove branch for button for electric towbar system (⇒ *Figure 6 -1-*) and other branch from the RdW version wiring harness.

2.3.2 Complete wire harness USA version. ⇒ *Figure 6 -B-*

2.4 Connect branch for power supply (control unit wiring harness)

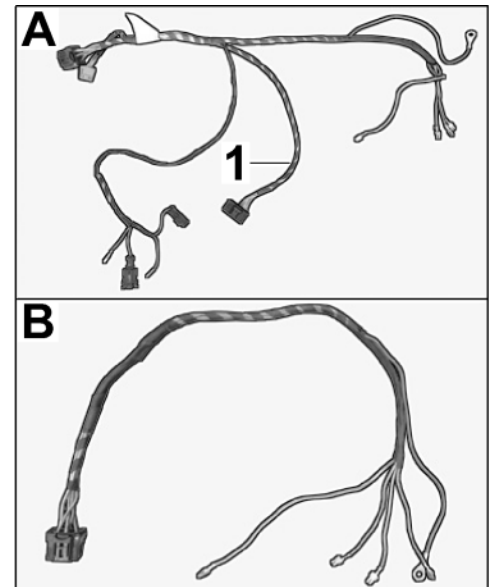


Figure 6

2.4.1 Loosen fuse box in the luggage compartment

- 1 - Hexagon nut
- 2 - Fuse box (luggage compartment)

Remove hexagon nut. ⇒ *Figure 7*

Pull fuse box (luggage compartment) out of the openings on the longitudinal member. ⇒ *Figure 7-a-*

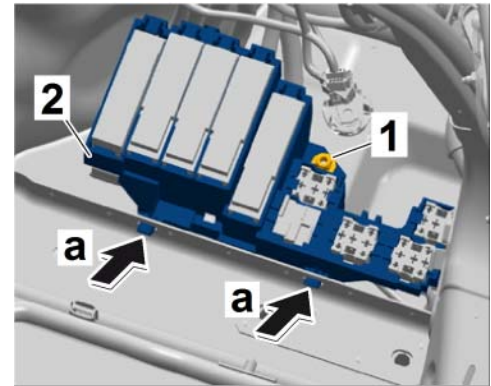


Figure 7

2.4.2 Release locks of fuse strip C and fuse strip B. Remove fuse strips B/C by pulling them down (⇒ *Figure 8 -Arrows-*) out of the fuse box.

- 1 - Fuse strip B
- 2 - Fuse strip C
- 3 - Locking

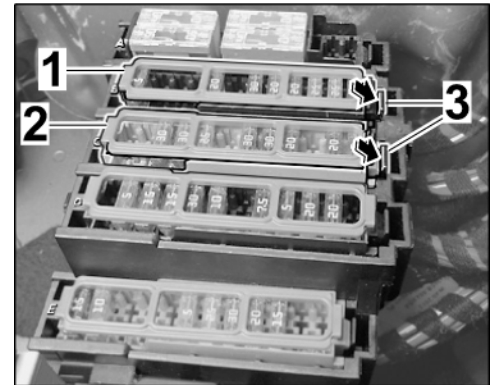


Figure 8

2.4.3 Release cap bottom from fuse strip B and C on both sides and unclip it. ⇒ *Figure 9-a-*

- 1 - Locking
- 2 - Bottom cap

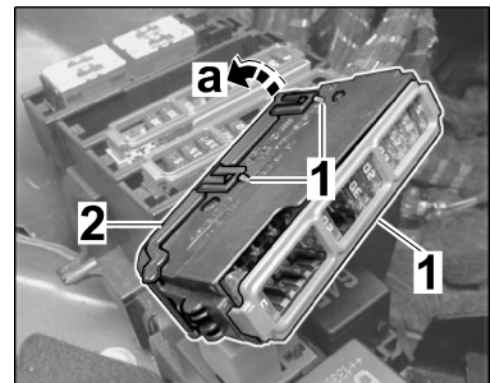


Figure 9

2.4.4 Use a screwdriver to open the secondary lock on fuse strips B and C. ⇒ *Figure 10-a-*

- 1 - Secondary lock
- 2 - Screwdriver



Information

Ensure socket contact is seated securely.

2.4.5 Insert socket contacts into fuse strips B/C as follows:

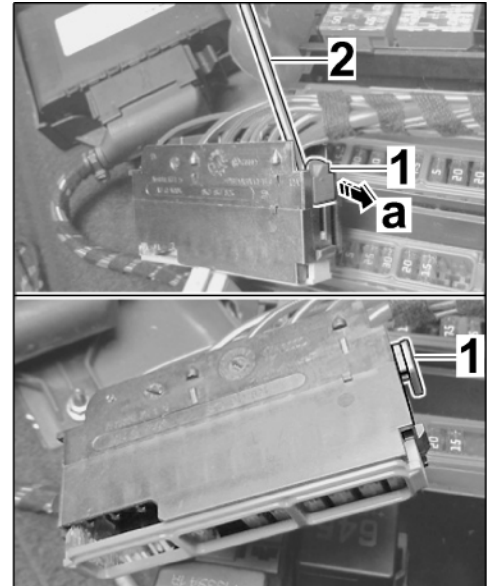


Figure 10

Fuse strip B, 1.5 mm ²		Chamber
RD/WH line	⇒	2
RD/YE line	⇒	3
RD/BU line	⇒	4

Fuse strip C, 2.5 mm ²		Chamber
RD/WH line	⇒	1

2.4.6 Close secondary lock on fuse strips B and C.

2.4.7 Install cover plate on fuse strips B and C.

2.4.8 Insert fuse strips C and B into the fuse box in the luggage compartment.

2.5 Securing fuse box in the luggage compartment.

- 1 – Hexagon nut
- 2 – Fuse box (luggage compartment)

2.5.1 Install fuse box (luggage compartment) into the openings on the longitudinal member. ⇒ *Figure 11-a-*

2.5.2 Install hexagon nut.

2.6 Route and connect wire harness for control unit.

2.6.1 Route control unit wire harness to the trailer hitch control unit.

- 1 – Ground line for trailer hitch
- 2 – Ground pin 42
- 3 – Tie-wrap

Connect plug connection. ⇒ *Figure 12-a-*

Secure control unit wire harness with a tie-wrap (⇒ *Figure 12-3-*).

2.6.2 Route cable ring eyelet from ground line for trailer hitch (⇒ *Figure 12-1-*) to ground pin 42 (⇒ *Figure 12-2-*).

2.6.3 Secure cable ring eyelets from ground line for trailer hitch and ground line from control unit wire harness to ground pin 42.

Tightening torque 9 Nm

2.7 Insert fuses for trailer hitch into fuse strips as follows (⇒ *Figure 13*):

- 1 – 30-amp/fuse strip C
- 2 – 20-amp/fuse strip B
- 3 – 20-amp/fuse strip B
- 4 – 20-amp/fuse strip B

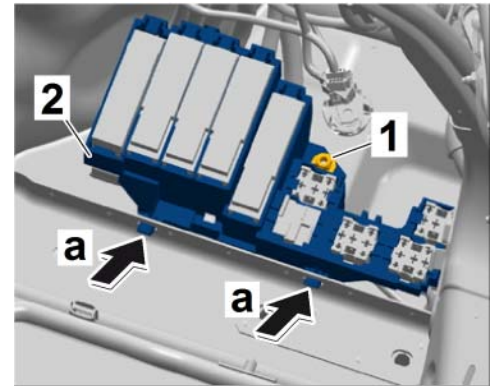


Figure 11

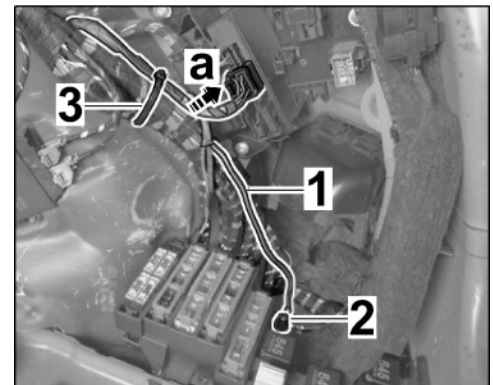


Figure 12

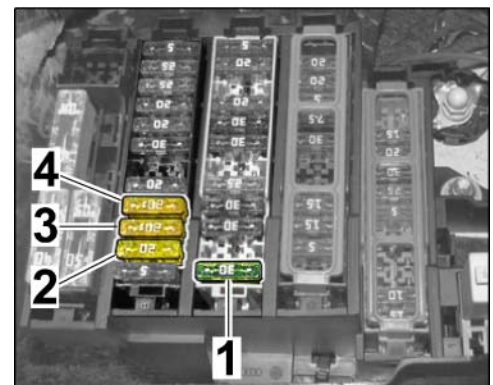


Figure 13

3 Installing the trailer hitch

3.1 **ONLY USA, Puerto Rico:**

Mount cover plate with four screws M5 x 16 onto holder plate of towbar system. ⇒ *Figure 16*

- 1 – Screw, M5 x 16
- 2 – Cover plate

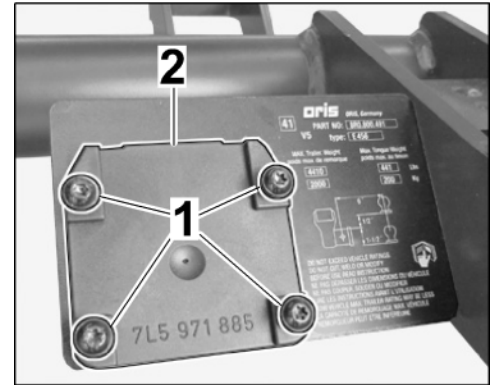


Figure 16

3.2 Remove dummy plug from rear closing panel. ⇒ *Figure 17*

- 1 – Dummy plug

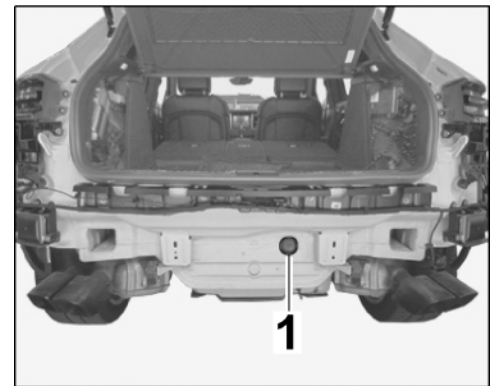


Figure 17

3.3 Installing the trailer hitch

3.3.1 Insert towbar system guide profile into the longitudinal member on the vehicle, position it and secure it with four new screws, M10 x 105 x 45. ⇒ *Figure 18*

- 1 – Screw, M10 x 105 x 45

Screw, M10 x 105 x 45 (4 ea.):
Tightening torque 50 Nm +90°

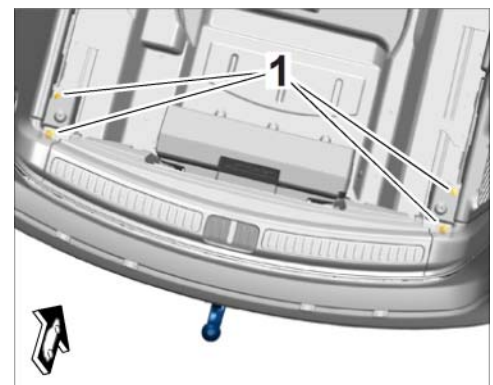


Figure 18

- 3.3.2 Guide wire harness for towbar system through rear closing panel into the boot.

1 – Cable clip

Install grommet in rear wall. ⇒ *Figure 19-**Arrow***

Install cable clip (wire harness for towbar system) on bolt. ⇒ *Figure 19-1*

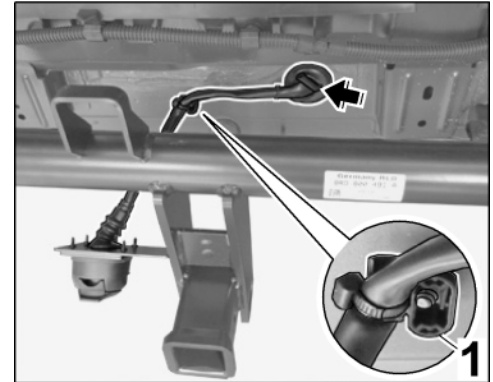


Figure 19

- 3.3.3 Route wire harness for trailer hitch (⇒ *Figure 20-1*) to the trailer hitch control unit.

1 – Wire harness for trailer hitch

2 – Cable clip

3 – Bracket

Install cable clip (⇒ *Figure 20-2*) on back panel.

Install wire harness for trailer hitch in the bracket (⇒ *Figure 20-3*).

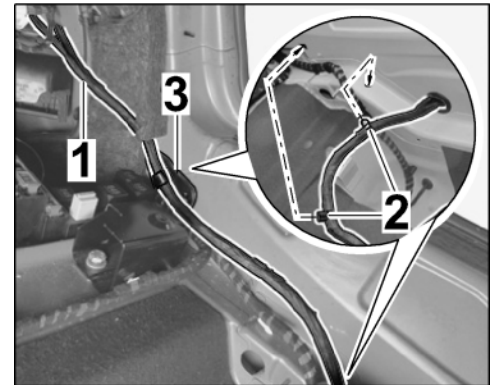


Figure 20

- 3.3.4 Connect plug connection for trailer hitch preparation. ⇒ *Figure 21-1*

1 – Connection to towbar system preparation

2 – Towbar system control unit connection

Connect plug connection to the trailer hitch control unit. ⇒ *Figure 21-2*

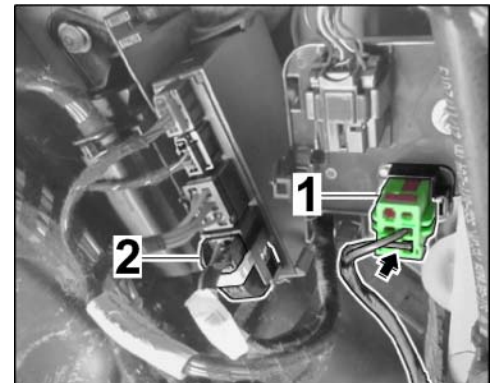


Figure 21

4 Concluding work

- 4.1 Install side trim panel for right luggage compartment. ⇒ *Workshop Manual '700319 Removing and installing rear luggage compartment side trim panel'*
- 4.2 Installing cover for rear lock support. ⇒ *Workshop Manual '703919 Removing and installing cover for rear lock carrier'*

- 4.3 Installing (side) luggage compartment trim panel (luggage compartment cover). ⇒ *Workshop Manual '700619 Removing and installing side luggage compartment trim (luggage compartment cover)'*
- 4.4 Installing (center) luggage compartment trim panel (luggage compartment cover). ⇒ *Workshop Manual '700619 Removing and installing centre luggage compartment trim (luggage compartment cover)'*
- 4.5 Convert rear panel. ⇒ *Workshop Manual '635619 Removing and installing rear trim element'*
- 4.6 Install rear bumper. ⇒ *Workshop Manual '635519 Removing and installing rear bumper'*

Coding: 5 Code trailer hitch

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
- ⇒ Switch off the ignition and remove the ignition key before disconnecting the control unit.
- ⇒ Ensure that the power supply is not interrupted during programming.
- ⇒ Connect a battery charger with a current rating of at least Nominal value 90 A to the vehicle battery.

- 5.1 Connecting a battery charger. ⇒ *Workshop Manual '2X00IN Battery trickle charge'*



Information

The **9900 - PIWIS Tester III** instructions take precedence since the description may be different with later Tester releases.

The procedure described here has been structured in general terms; different text or additions may appear on the **9900 - PIWIS Tester III**.

- 5.2 **9900 - PIWIS Tester 3** must be connected before switching on the ignition.
- 5.3 Select the required vehicle type. PIWIS Tester Diagnostics starts.
- 5.4 Maintenance of vehicle data
 - 5.4.1 Select Additional menu by pressing •F7“ . Question “Should a Vehicle Analysis Log (VAL) be created?” Press •F11“ to confirm.

- 5.4.2 Select the "Maintenance of vehicle data" function. Press •F12" until "PR numbers" appears in the Value group column.
- 5.4.3 In the 'Family' column: Select "Towbar system".
Open the drop-down menu in the "Value" column and select "1D6 - Towbar system without ball hitch (USA)". Press •F12" to continue.
- 5.4.4 Selected values are displayed. Press •F8" to write values.
Wait until the message "Generation of vehicle data is complete. ..." appears.
- 5.4.5 Press •F12" to switch to Report management.
- 5.4.6 Press •F10" to open the log and check that vehicle equipment "1D6 - Towbar system without ball hitch (USA)" is entered.
Close the log.
- 5.4.7 Press •F11" to switch to the control unit overview.
- 5.5 Adapt coding
 - 5.5.1 Select all control units with •Ctrl A" .
 - 5.5.2 Switch to the "Codings/adaptations" menu.
 - 5.5.3 Select function "Automatic coding". Press •F12" to continue.
 - 5.5.4 Wait until the message "Coding has been completed successfully." appears. Press •F12" to continue.
 - 5.5.5 Switch to the "Overview!" menu.
- 5.6 Read out error memories of all systems, remedy any existing errors and erase the error memory. ⇒ *Workshop Manual '0335IN Diagnostics maintenance: Diagnostic system and maintenance inter...'*
- 5.7 Switch off ignition and disconnect **9900 - PIWIS Tester 3**.
- 5.8 Disconnect the battery charger. ⇒ *Workshop Manual '2X00IN Battery trickle charge'*

66 90 23 03: –Retrofitted (mechanical) trailer hitch– Labor time: **235 TU**
Includes: Install and remove trailer hitch, rear panel, install and code trailer hitch.

91 70 25 53: –Lane Change Assist control unit programmed– Labor time: **47 TU**
Includes: Measure calibration plate on the vehicle.

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