

Trailer Tow Hitch - Without Ball Joint (Removable - 1D6)

Restriction: **ONLY** approved for: USA (C02), Puerto Rico (COA), Mexico (C34) and Canada (C36).
ONLY for vehicles with I-no. 1D8 (Pre-installtion of trailer hitch).

Model Year: **As of 2024**

Cause: **Installation**



Figure 1 (USA version)

Note: The Macan can be installed with a trailer tow hitch (⇒ Figure 1 (USA version)). Note the following special features:

- max. permissible trailer load of 2,000 kg (4409 lbs)
- Permissible tongue weight of 200 kg (409 lbs)
- Pre-assembled female wire harness for trailer lighting
- Payload following installation, restricted by higher vehicle kerb weight!
- Permissible total weight and axle load must not be exceeded!

The trailer tow hitch is also available as a factory installed option for new vehicles by requesting optional equipment "1D6 = Trailer tow hitch without ball joint".

Note on increasing the traction and tongue weight:

For all Macan 4, Macan 4S and Macan Turbo vehicles, there will be a new installation kit with the maximum traction load (braked) increased to 2,500 kg (5511 lbs) and the maximum tongue weight (ground floor) increased to 250 kg (551 lbs) from Q1/2026. Until then, only the current installation kit with the current values can be offered. For all Macan 4, Macan 4S and Macan Turbo vehicles on the market, an offer to

increase the traction and tongue weight is currently being worked out. Further information will be provided to the dealers via the importer at the appropriate time.



Information

Please pass all this information on to the customer.

Also give the customer a copy of the first pages of these Installation and Conversion Instructions, including the legal regulations.



Information

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

- Macan Driver's Manual, topics: "Trailer Hitch", "More Safety and More Driving Pleasure" and "Weights"
- Vehicle registration documents

Part no.: **95C.044.860.B** ⇒ Trailer tow hitch – mechanical – USA (1D6), set

Parts list:

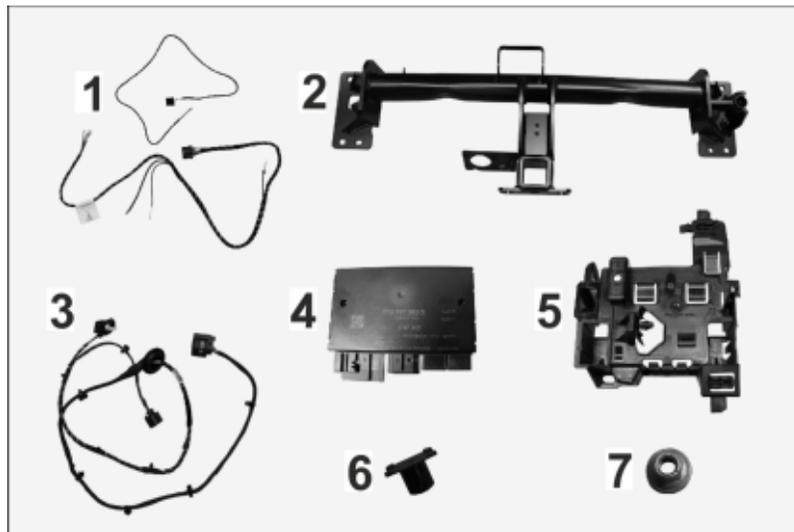


Figure 2

95C.974.150.AY	1 x	Installation wire harness (two-part) ⇒ Figure 2 -1-
95C.803.921.L	1 x	Trailer hitch, mechanical, USA ⇒ Figure 2 -2-
95C.971.541.A	1 x	Wire harness incl. socket, USA ⇒ Figure 2 -3-
PAD.907.383.D	1 x	Trailer tow hitch control unit, USA ⇒ Figure 2 -4-
95C.907.371.A	1 x	Control unit holder ⇒ Figure 2 -5-
7L5.971.885	1 x	Protection cap ⇒ Figure 2 -6-

PAF.913.039	8 x	Nut, M12 x 1.5 ⇒ <i>Figure 2 -7-</i>
95C.803.593	1 x	Plug AZV USA (not shown)
N .017.131.14	2x	Fuse large 25A (not shown)
N .017.131.13	1x	Fuse large 20A (not shown)
N .102.615.07	1x	Fuse small 15 A (not shown)
N .106.622.01	20x	Tie-wrap (not shown)
N .910.742.01	4x	Internal hexagon round-head bolt M5x16 (not shown)

Notes: The respective legal regulations in the various countries must be observed.

Tool: **P90999 - P90999 - PIWIS Tester 4**
V.A.G 1332A - Torque wrench 40-200 Nm (30-148 ftlb.)
VAS 6933 - Disassembly tool
Saw or vibrating knife
Plastic wedge
Flat scraper
Flashlight
Knife

- Fitting:
- 1 Preparatory work
 - 1.1 Drive the vehicle onto a lifting platform.
 - 1.2 Disconnect battery. *Information on vehicle electrical system battery work instructions after disconnecting'*
 - 1.3 Outside area
 - 1.3.1 Remove wheels on rear axle. ⇒ *Workshop Manual '440519 Removing and installing wheel'*
 - 1.3.2 Remove rear wheel housing liners. ⇒ *Workshop Manual '536919 Removing and installing rear wheel housing liner'*
 - 1.3.3 Remove rear wheel extension. ⇒ *Workshop Manual '664519 Removing and installing rear wheel cover'*
 - 1.3.4 Remove tail lights. ⇒ *Workshop Manual '943119 Removing and installing tail light in rear light'*
 - 1.3.5 Remove rear trim. ⇒ *Workshop Manual '635519 Removing and installing rear trim'*
 - 1.3.6 Remove rear bumper. ⇒ *Workshop Manual '635019 Removing and installing rear bumper'*
 - 1.4 Passenger compartment

- 1.4.1 Remove rear luggage compartment trim panel. ⇒ *Workshop Manual '70061900 Removing and installing rear luggage compartment trim panel'*
- 1.4.2 Remove rear luggage compartment trim panel (support). ⇒ *Workshop Manual '70061905 Removing and installing rear luggage compartment trim panel (support)'*
- 1.4.3 Remove cover for rear lock carrier. ⇒ *Workshop Manual '70391905 Removing and installing cover for lock carrier (rear)'*
- 1.4.4 Remove side trim panels for rear luggage compartment at the left. ⇒ *Workshop Manual '700319 Removing and installing the side trim panel for the rear luggage compartment'*

2 Fit trailer tow hitch.

- 2.1 Fit protection cap to trailer tow hitch and move socket to installation position.

- 1 – Protection cap
- 2 – Plug socket

- 2.2 Fit trailer tow hitch on the vehicle and secure it with new nuts, M12 x 1.5 (4 pcs.).

Tightening torque 50 Nm (37 ftlb.) + 90°



Figure 3

- 2.3 Fit trailer tow hitch cable harness to rear retaining strip. ⇒ *Figure 4*

- 1 – Plug
- 2 – Plug socket

- 2.4 Remove blank plug from rear wall and route trailer tow hitch wire harness to trailer tow hitch control unit holder. ⇒ *Figure 4 -1-*

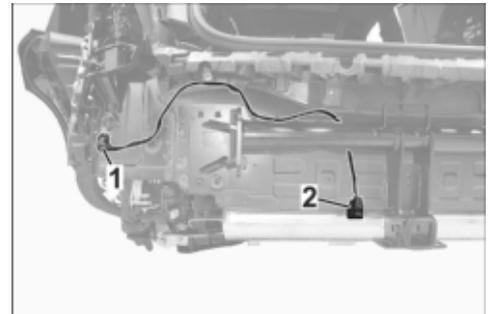


Figure 4

3 Routing and connecting electric wire harness

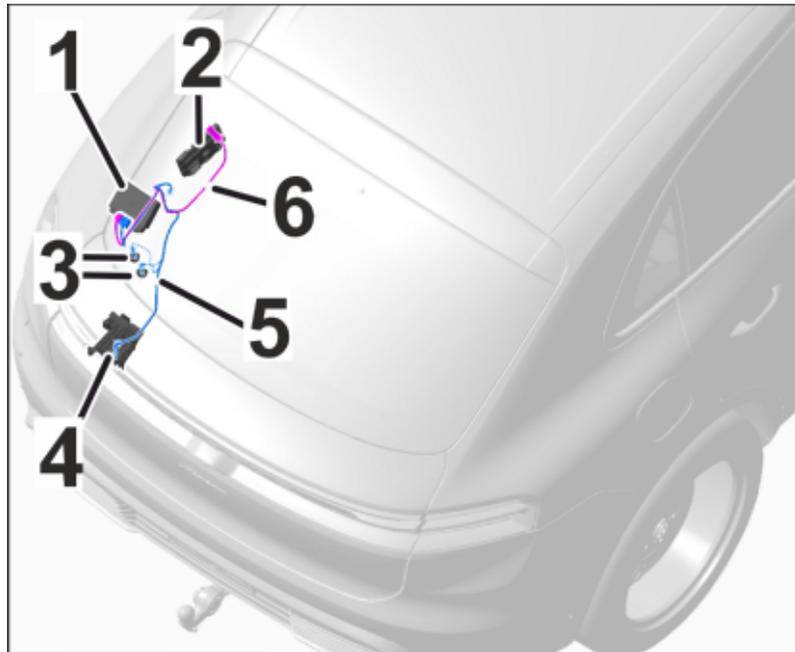


Figure 5

- 1 – Trailer tow hitch control unit
- 2 – Rear-end electronics control unit (J393)
- 3 – Ground pin
- 4 – Fuse box
- 5 – Wiring harness for power supply
- 6 – CAN wiring harness

3.1 Establish connection for power supply.

3.1.1 Connect branch for power supply to fuse box in luggage compartment.

Remove safety box and open secondary lock.

Plug-in socket contacts into fuse box.



Information

Ensure socket contact is fitted securely.

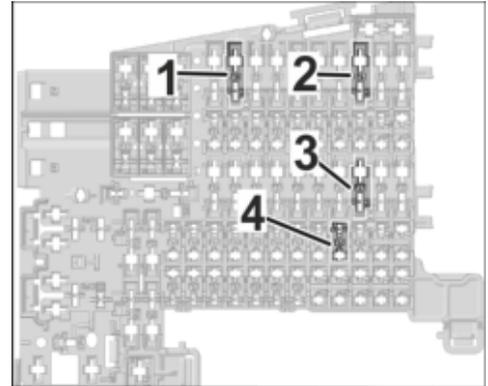


Figure 6

Branch for power supply		Chamber
Red/Green line	⇒	F4 (25 A fuse) ⇒ Figure 6 -2-
Red/ blue line	⇒	F10 (25 A fuse) ⇒ Figure 6 -1-
Red/black line	⇒	F27 (20 A fuse) ⇒ Figure 6 -3-
Red/brown line	⇒	F41 (15 A fuse) ⇒ Figure 6 -4-

3.1.2 Route and connect ground line.

Secure cable ring eyelets from branch for ground and ground line for trailer tow hitch on ground pin 43.

Tightening torque 9 Nm (6.6 ftlb.)

- Brown (6 mm²) on MPB 43 ⇒ Figure 7 -1-
- Brown (2.5 mm²) on MPS 43 ⇒ Figure 7 -2-

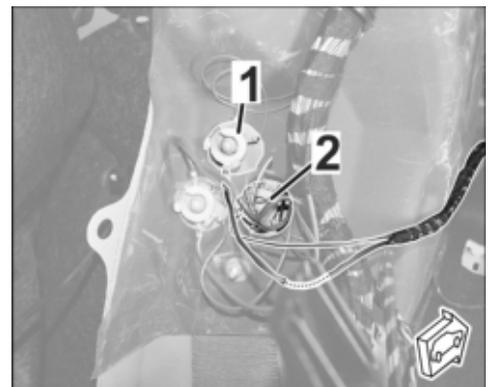


Figure 7

3.1.3 Plug ground line from installation wiring harness into vehicle side 2-pin plug in chamber 2.

- 1 – Brake booster line
- 2 – Ground line

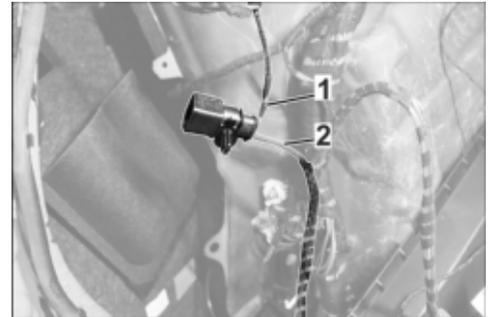


Figure 8

2-pin connector	Chamber	Function
Blue line	1	Brake booster
Brown line	2	Ground

The connection plug for the brake booster is located below the dashboard trim panel (driver's side) in the area of the OBD plug socket.

- 1 – Connection plug for brake booster
- 2 – OBD plug socket

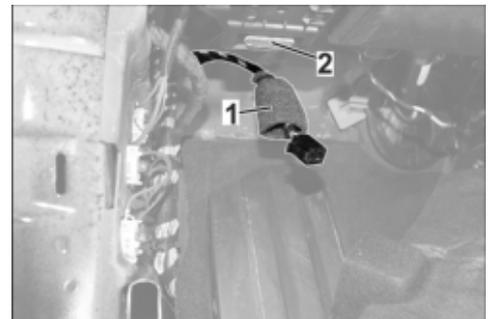


Figure 9

3.2 Connect CAN line.

3.2.1 Pick up the CAN signal on plug A (⇒ Figure 10 -1-) from the rear-end electronics control unit (J393) at the rear left.

- 1 – Rear-end electronics control unit (J393)
- 2 – Plug connection ground & brake booster
- 3 – Trailer tow hitch control unit
- 4 – Plug connection to trailer tow hitch
- 5 – Ground

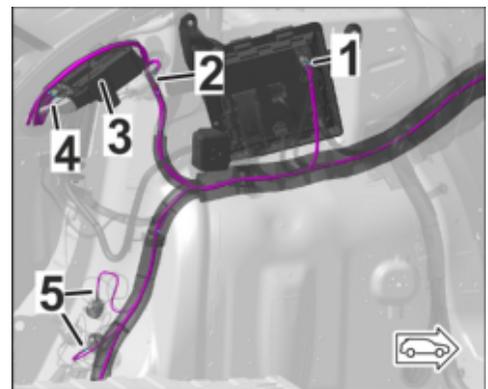


Figure 10

To do this, expose the CAN bus cables (A51 Orange/Brown & A52 Black/Black) and crimp together with the supplied cable using a bumper connector as a splice. Slide shrink-fit hose over the splice and shrink the hose to make it water-tight using a hot-air gun.

Route the supplied cable on the main wiring harness to the installation connector and plug socket contacts into the standard socket housing.
⇒ Figure 11

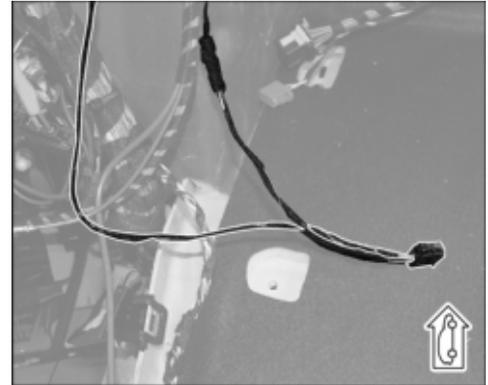


Figure 11

Plug for trailer preparation	Chamber	Function
Black/Red line	1	Term. 15
Brown/White line	2	BLS
Black line	3	CAN High
Orange/Brown line	4	CAN LOW
Blue/Green line	6	Brake booster

3.3 Fit trailer tow hitch control unit and connect it.

3.3.1 Fit rear left control unit holder. ⇒ Figure 10 -3-

3.3.2 Connect plug connections (⇒ Figure 12 -2-) to the trailer tow hitch control unit (⇒ Figure 12 -1-). Establish plug connection (⇒ Figure 12 -3-) for ground connection & brake booster.

3.3.3 Clip the trailer tow hitch control unit into the control unit holder.

4 Follow-up actions

4.1 Create cut-out for trailer tow hitch in bumper.

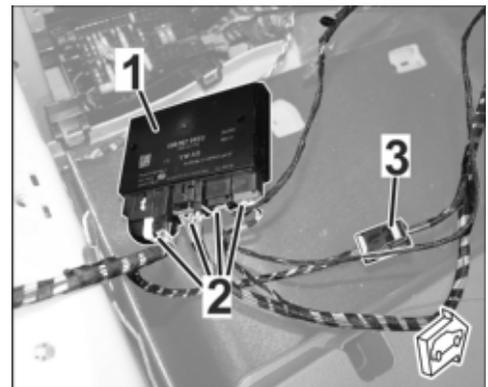


Figure 12



Figure 13

- 4.1.1 Mark cut-out with a marker. ⇒ Figure 13



Information

Mask the sawing area to prevent damage here.

- 4.1.2 Make cut-out using a drill and saw.
- 4.2 Passenger compartment
 - 4.2.1 Install rear left luggage compartment side trim panel. ⇒ *Workshop Manual '700319 Removing and installing the side trim panel for the rear luggage compartment'*
 - 4.2.2 Install rear luggage compartment trim panel (support). ⇒ *Workshop Manual '70061905 Removing and installing rear luggage compartment trim panel (support)'*
 - 4.2.3 Install cover for rear lock support. ⇒ *Workshop Manual '70391905 Removing and installing cover for lock carrier (rear)'*
 - 4.2.4 Install rear luggage compartment trim panel. ⇒ *Workshop Manual '70061900 Removing and installing rear luggage compartment trim panel'*
- 4.3 Outside area
 - 4.3.1 Install rear bumper. ⇒ *Workshop Manual '635019 Removing and installing rear bumper'*
 - 4.3.2 Install rear trim. ⇒ *Workshop Manual '635519 Removing and installing rear trim'*

- 4.3.3 Install tail lights. ⇒ *Workshop Manual '943119 Removing and installing tail light in rear light'*
- 4.3.4 Install rear wheel extension. ⇒ *Workshop Manual '664519 Removing and installing rear wheel cover'*
- 4.3.5 Install rear wheel housing liners. ⇒ *Workshop Manual '536919 Removing and installing rear wheel housing liner'*
- 4.3.6 Install wheels on rear axle. ⇒ *Workshop Manual '440519 Removing and installing wheel'*
- 4.4 Connect the battery. ⇒ *Workshop Manual '27061N Information on vehicle electrical system battery working instructions after disconnecting'*

Coding:

- 5 Observe preconditions for control unit programming
Basic instructions and procedure for control unit programming using the PIWIS Tester information'

**Information****Vehicle update – general information**

The entire vehicle network will be checked for a necessary update or computed to ensure fault-free functioning of the vehicle. For this purpose, the following preparations are to be made:

- Latest release on PIWIS Tester 4 and PiUS available
- Vehicle is fully built up
- VCI and PIWIS Tester 4 must be connected to each other via workshop Wi-Fi
- The user must be logged in to the PIWIS Tester 4 in the PPN
- Vehicle must be supported with an external charger
- Seat heating and seat ventilation are not active
- Place the original hand-held transmitter in the emergency start tray (see Workshop Manual)

The vehicle performs the update independently. The current status can be retrieved on the diagnostic tester or on the front display and control panel (R238) under Messages (RPC+). During the update, all displays in the vehicle (instrument cluster, central display and passenger display) are occasionally switched off. The programming process is still ongoing at these times. During the update, a buzzing of the acoustic simulator will sound several times. This noise is normal and indicates an ongoing update of the main control unit for the drive and chassis (HCP1).

NOTICE**Sitting inside the vehicle during the update**

- **Update cancelled by automatic ignition activation**
- ⇒ **Avoid sitting inside the vehicle during the update.**

NOTICE

The specified update process was not followed

- Update cancellation
 - Destruction of control units
- ⇒ Observe and follow the procedures displayed for the update and instructions for the PIWIS Tester
- ⇒ Do not replace ignition without instructions from PIWIS Tester
- ⇒ Repeat the programming only if a failed update is displayed on the PIWIS Tester

**Information**

An **active** Internet connection with the PIWIS Tester must be ensured.

The technician **must** log in to PPN with the PIWIS tester.

The PIWIS Tester must not be charged using the cigarette lighter.

NOTICE

Control unit programming will be aborted if the Wi-Fi connection is unstable.

- An unstable Wi-Fi connection can interrupt communication between the PIWIS Tester and the vehicle communication module (VCI). As a result, control unit programming may be aborted.
- ⇒ During control unit programming, always connect the PIWIS Tester to the vehicle communication module (VCI) via the USB cable.

5.1 Start diagnostics.

5.1.1 **(F7)** select additional menu.

5.1.2 Confirm the displayed query for creating a vehicle analysis log (VAL) with "Yes".

5.1.3 Cancel the automatic integration test by pressing **(F11)** .

5.2 Enter the new vehicle equipment in the vehicle data using "PIWIS Online"

5.2.1 Select the "Maintenance of vehicle data with PIWIS ONLINE" function in the "Model series-specific tests and campaigns" menu item.

A message appears informing you that "Actual" (vehicle) and "Target" (PIWIS Online) data will be compared.

Press **(F12)** to continue.

5.2.2 Confirm information "The vehicle data was synchronised with PIWIS Online. Significant differences were found" by pressing **(F12)** .

5.2.3 Look for the option "TRAILER HITCH" in the "Family" column.

Select the value "1D6 - Trailer tow hitch without ball joint (removable)" in the drop-down menu. Press **(F12)** to continue

- 5.2.4 A table containing the coding value and the columns "new value" and "old value" is displayed in the overview. Press **(F8)** to continue.
- 5.2.5 Vehicle data is written and transferred to the vehicle.
- 5.2.6 The vehicle data log can be created with **(F14)**. Check that the selected vehicle equipment has been entered and close the log.
- 5.3 Program and code control units (campaign)
- 5.3.1 Press **(F3)** to start the integration test in the control unit overview.
- 5.3.2 After the necessary update has been calculated, confirm the table of the listed control units, which must be coded/programmed, by pressing **(F8)**.
- 5.3.3 Wait for information "The update was successful." and check the coding status of the control units in the displayed table.
- Continue by pressing **(F11)** to return to the control unit overview.
- 5.3.4 After software update is complete, perform a vehicle bus idle.
- Go back to the control unit overview.
 - End the vehicle's operational readiness (ignition off).
 - Wait for 5 minutes with the driver door open.
 - Restore operational readiness (ignition on).
- Read out the fault memory of all systems, work through any existing faults and erase the fault memory.
- 5.4 Create a vehicle analysis log (VAL) in the "Overview" menu item.
- 5.5 Exit the diagnostic application. Switch off ignition and disconnect **P90999 - P90999 - PIWIS Tester 4**.
- 5.6 Disconnect the battery charger. *Information on vehicle electrical system battery working instructions after disconnecting'*

66 90 23 44: –Trailer tow hitch (without ball joint) installed– Labor time: **371 TU**
Includes: Remove and install rear apron, connect wiring harness, install and code trailer tow hitch (without ball joint).

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