

Installation and Conversion Instructions

Macan (95B) 36/16 ENU 9193

Apple CarPlay® Interface Incl. Voice Control

- Revision: This bulletin replaces bulletin Group 9, 36/16, dated May 5, 2020.
- Model Year: As of 2017 up to 2018
- Information: **Retrofitting**



Figure 1

Notes: After enabling the Apple CarPlay[®] interface in the vehicle, iPhone[®] apps can also be used in the Porsche Communication Management (PCM) of the vehicle.

The following requirements must be met in order to use this function:

- At least iPhone® 5 or a newer device with iOS® 7.1 or later software
- Availability of Apple CarPlay®

You will find information about the available regions at https://support.apple.com.

Different work must be carried out and/or additional parts must be ordered, depending on vehicle equipment.

Parts Info: **95B.044.900.07** \Rightarrow License key for Apple CarPlay®

Order the following parts in accordance with vehicle equipment:

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Vehicle WITHOUT Navigation (7Q0):

7PP.035.504.A	1 x	GPS antenna
95B.035.550.DD	1 x	GPS antenna line
999.513.076.40	10 x	Tie-wrap
955.606.838.00	5 x	Tie-wrap with clip

Vehicle WITHOUT Voice control (QH0):

982.044.900.04	1 x	\Rightarrow Licence key for voice control
N.910.207.01	1 x	Multiple-tooth screw, M18 x 1.5 x 26
95B.953.50x.x	1 x	Steering-column switch (see table)

Installed steering-column switch	Required steering-column switch
Part No.	Part No.
95B.953.502.A	95B.953.502.C
95B.953.502.D	95B.953.502.F
95B.953.502.N	95B.953.502.B
95B.953.502.E	95B.953.502.H
95B.953.502.J	95B.953.502.L
95B.953.502.K	95B.953.502.M
95B.953.502.P	95B.953.502.S
95B.953.502.R	95B.953.502.T

Alternatively, the following procedure will help to identify the required steering-column switch:

- Search for the steering-stock switch installed as "standard" in the Porsche Electronic Parts Catalogue (PET) with the vehicle identification number (VIN) filter ¹ activated.
- If the suggested spare part already contains the I-no. **QH1 (voice control)**: Order this part ².
- If the suggested spare part includes the I-no. **QHO (WITHOUT voice control)**: Take note of other I-nos. of the suggested spare part.
- Search for and order new spare part with the same I-nos. **INCLUDING NEW** I-no. QH1 (voice control).
- ¹ If the VIN filter in the PET does not work, the standard steering-column switch must be used via the I-no. in the Porsche Central Service System (PCSS).
- ² **Background:** This spare part can also be installed in vehicles WITHOUT voice control = variant reduction in spare parts systems.

Tools: 9900 - PIWIS Tester 3

Nr.32 - Multiple-tooth socket-wrench insert

3438 - Hook

Installing:

1 Connect battery charger (\Rightarrow Workshop Manual '2X00IN Battery trickle charging).

2 **ONLY** for vehicles **WITHOUT** Navigation (I-no. 7Q0): Install GPS antenna and GPS antenna line

- 2.1 Remove PCM display and operator control unit. \Rightarrow Workshop Manual '911019 Removing and installing PCM display and operator control unit'
- 2.2 Remove glove compartment. ⇒ Workshop Manual '681519 Removing and installing glove compartment'
- 2.3 Remove air guide (air duct) at the right (\Rightarrow *Figure 2-1-*).
 - 1 Air guide (air duct)
 - 2 Internal Torx screw
 - 3 Hexagon-head bolt
 - 2.3.1 Unscrew hexagon-head bolt.
 - 2.3.2 Release connector (\Rightarrow *Figure 2-a-*) and disconnect it.
 - 2.3.3 Unscrew internal Torx screw and remove air guide.
- 2.4 Expose A/B-pillar area (at the right)
 - 2.4.1 Remove A-pillar trim panel (right). ⇒ Workshop Manual '705719 Removing and installing A-pillar trim panel'
 - 2.4.2 Remove front grab handle (right). ⇒ Workshop Manual '683519 Removing and installing front grab handle'
 - 2.4.3 Remove rear grab handle (right). ⇒ Workshop Manual '683719 Removing and installing rear grab handle'



Figure 2

- 2.4.4 Detach upper part of B-pillar trim panel (right) (\Rightarrow *Figure 3*). \Rightarrow Workshop Manual '706719 Removing and installing upper part of B-pillar trim panel'
 - Upper part of B-pillar trim 1 panel
- 2.5 Expose front roof area
 - 2.5.1 Remove roof console. \Rightarrow *Workshop* Manual '708319 Removing and installing front roof trim panel'
 - 2.5.2 Remove cover over interior rear-view mirror. \Rightarrow *Workshop* Manual '682719 Removing and installing interior rear-view mirror'



Figure 3

- 2.5.3 Remove sun visor at the right and centre bearing. ⇒ Workshop Manual '682319 Removing and installing sun visor'
- 2.5.4 Remove centre bearing for sun visor at the left.
- 2.5.5 Remove screw (2 x) in the roof console area (\Rightarrow *Figure 4*).
 - 1 - Screw on roof console



Figure 4



Information

Check that the fixing clips are not bent or broken.

Replace missing or damaged fixing clips with new ones.

Make sure that all fastening clips are engaged securely.

Check that they are seated correctly. Check gap and joint dimensions.

2.5.6 **ONLY** for vehicles with panoramic roof system: Unclip roof trim panel at the front and side areas at the fixing clips $(\Rightarrow$ *Figure 5*).



Figure 5



Information

Make sure that the roof cover does not buckle.

- 2.5.7 Carefully pull front roof trim panel down as far as required (\Rightarrow *Figure 6* -**arrow a**-) until the clip is no longer installed in position (roof) (\Rightarrow *Figure 6*-**arrow b**-).
 - 1 Clip



Figure 6

- 2.6 Insert GPS antenna into the holder (\Rightarrow *Figure* 7).
 - 1 GPS antenna holder
 - **2** Clip

Press GPS antenna up (\Rightarrow Figure 7 - arrow a-) until the clips (2 x) lock securely (\Rightarrow Figure 7).

2.7 Route GPS antenna line as follows: GPS antenna \rightarrow roof console \rightarrow roof \rightarrow A-pillar \rightarrow behind glove compartment \rightarrow PCM installation slot



Figure 7

2.7.1 Connect GPS antenna line connector to the GPS antenna and move locking mechanism.



Information

Make sure that the roof cover does not buckle.

- 2.7.2 Route GPS antenna line along the standard wire harness for the roof and secure with a tie-wrap $(\Rightarrow Figure 8)$.
 - 1 GPS antenna line



Figure 8

If there is no standard wire harness, secure the GPS antenna line to the roof using a tie-wrap and clip $(\Rightarrow$ Figure 9).

- Tie-wrap with clip 1 (955.606.838.00)
- 2 - GPS antenna line



Figure 9

- 2.7.3 Secure GPS antenna line to the standard wire harness in the A-pillar with a tie-wrap (\Rightarrow *Figure 10*).
 - 1 - GPS antenna line



Figure 10

- 2.7.4 Route GPS antenna line from the A-pillar to the dashboard bracket $(\Rightarrow$ *Figure 11*).
 - 1 GPS antenna line
 - 2 A-pillar
 - 3 Dashboard bracket



Figure 11

- 2.7.5 **ONLY:** Vehicles with PCM: Route GPS antenna line along the dashboard bracket to the PCM installation slot (\Rightarrow *Figure 12*).
 - 1 GPS antenna line
 - 2 PCM installation slot
 - 3 Dashboard bracket



Figure 12

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- 2.7.6 **ONLY** for vehicles with radio: Route GPS antenna line along the dashboard bracket to the radio antenna line (same length).
 - 1 GPS antenna line
 - 2 Radio antenna line
- 2.7.7 Secure GPS antenna line using tie-wraps.
- 2.8 Fit trim panels in the passenger compartment in reverse order.



Figure 13

- 3 **ONLY** for vehicles **WITHOUT** Voice control (I-no. QHO): Replace steering-column switch.
 - 3.1 Remove steering wheel. \Rightarrow Workshop Manual '481019 Removing and installing steering wheel'
 - 3.2 Remove trim panel (steering-column switch). ⇒ Workshop Manual '481319 Removing and installing steering column casing'
 - 3.3 Convert steering-column switch.
 - 3.3.1 Remove steering-column switch. ⇒ Workshop Manual '945019 Removing and installing steering-column switch'
 - 3.3.2 Remove steering wheel electronics control unit from the steering-column switch and install steering wheel electronics control unit on the new steering-column switch. ⇒ Workshop Manual '916219 Removing and installing control unit for steering wheel electronics'
 - 3.3.3 Install steering-column switch. ⇒ Workshop Manual '945019 Removing and installing steering-column switch'
 - 3.4 Install trim panel (steering-column switch). \Rightarrow Workshop Manual '481319 Removing and installing steering column casing'
 - 3.5 Install steering wheel. ⇒ Workshop Manual '481019 Removing and installing steering wheel'

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

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

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**.

- 4 Code Apple CarPlay®.
 - 4.1 **9900 PIWIS Tester 3** must be connected and ignition switched on.
 - 4.2 Select "Diagnostics". **9900 PIWIS Tester 3** detects the model line. When you press "Next", PIWIS Tester III diagnostics starts.
 - 4.3 Select Additional menu by pressing F7". Press F11" to confirm the question "Create vehicle analysis log (VAL)?".
 - 4.4 Enable Apple CarPlay®.
 - 4.4.1 Select the "Function enable" function. Press F12" to continue.



Information

PIWIS Tester must be connected to the Porsche Partner Network (PPN) via WLAN or data cable!

- 4.4.2 Enter PPN user name. Tap the password input field and enter the password. Select "Login".
- 4.4.3 Select the "Enable" function. Press F12" to continue.
- 4.4.4 Touch the license number input field and enter the license number.Press •F12[#] to continue.
- 4.4.5 Confirm the "Apple CarPlay" function by pressing F12".

Wait until the message "Functions have been enabled successfully." appears.

4.4.6 Press • F12" to go to the "Overview" menu.

Select the "Display enabled functions" function. Press • F12" to continue.

Wait until a table containing the enabled functions appears, e.g.:

Control unit	Function	Status
PCM4 (001)	Apple CarPlay	\checkmark
	Voice control	✓ or (—)
	Sport Chrono	\checkmark
	Bluetooth	\checkmark
	Navigation	\checkmark
	UAS (universal audio interface)	 ✓

4.4.7 Press • F12" to continue.

Press • F11" to return to the "Overview" menu.

- 4.5 **ONLY** vehicles **WITHOUT** Voice control (QH0): Enable voice control.
 - 4.5.1 Select the "Function enable" function. Press F12" to continue.



Information

PIWIS Tester must be connected to the Porsche Partner Network (PPN) via WLAN or data cable!

- 4.5.2 Enter PPN user name. Tap the password input field and enter the password. Select "Login".
- 4.5.3 Select the "Enable" function. Press F12" to continue.
- 4.5.4 Touch the license number input field and enter the license number.Press F12[#] to continue.
- 4.5.5 Confirm "Voice control" function by pressing F12".

Wait until the message "Functions have been enabled successfully." appears.

4.5.6 Press • F12" to go to the "Overview" menu.

Select the "Display enabled functions" function. Press • F12" to continue.

Wait until a table containing the enabled functions appears, e.g.:

Control unit	Function	Status
PCM4 (001)	Apple CarPlay	\checkmark
	Voice control	\checkmark
	Sport Chrono	\checkmark
	Bluetooth	\checkmark

Navigation	\checkmark
UAS (universal audio interface)	\checkmark

4.5.7 Press • F12[#] to continue.

Press • F11" to return to the "Overview" menu.

- 4.6 Adapt coding.
 - 4.6.1 Press F11[#] to return to the list of control units.

Select all control units by pressing • Ctrl A[#]. Press • F12[#] to continue.

- 4.6.2 Switch to the "Codings/adaptations" menu. Press F12" to continue. Select "Automatic coding" mode. Press • F12" to continue.
- 4.6.3 Wait until the message "Coding has been completed successfully" appears. Press•F12" to continue.

Switch to the "Overview" menu.

- 4.7 Read out the fault memories of all systems, work through any existing faults and erase the fault memories. \Rightarrow Workshop Manual '033500 Fault memory for on-board diagnosis'
- 4.8 Switch off the ignition and disconnect **9900 PIWIS Tester 3**.
- 4.9 Disconnect the battery charger. ⇒ Workshop Manual '2X00IN Battery trickle charging'
- 91 93 23 40: -Apple CarPlay® interface enabled-
- 91 93 23 41: **ONLY** for vehicles WITHOUT navigation (I-no. 7Q0):

Apple CarPlay® Interface enabled –
 Includes: Enabling Apple CarPlay® interface and installing GPS antenna and GPS antenna line.
 Without: Replacing steering-column switch

94 50 19 00: ONLY for vehicles WITHOUT voice control (I-no. QHO): Steering-column switch removed and installed Labor time: 58 TU

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Labor time: 77 TU