

WML0 – Retrofitting Loudspeaker Booster (Delivery Stop)

Revision: This bulletin replaces bulletin Group 9 155/21 WML0, dated December 3, 2021.

Model Year: **As of 2021 up to 2023**

Model Line: **Macan (95B)**

Equipment: BOSE Surround Sound System **(M-no. 9VL)**

Concerns: **Loudspeaker booster**

Information: **Due to worldwide semiconductor shortages experienced by some suppliers, the affected vehicles were built without a loudspeaker booster.**

Action required: Retrofit loudspeaker booster.



Information

Scope 1 is a **dummy** scope that was posted to each vehicle.
The campaign **cannot** be invoiced via this scope.



Information

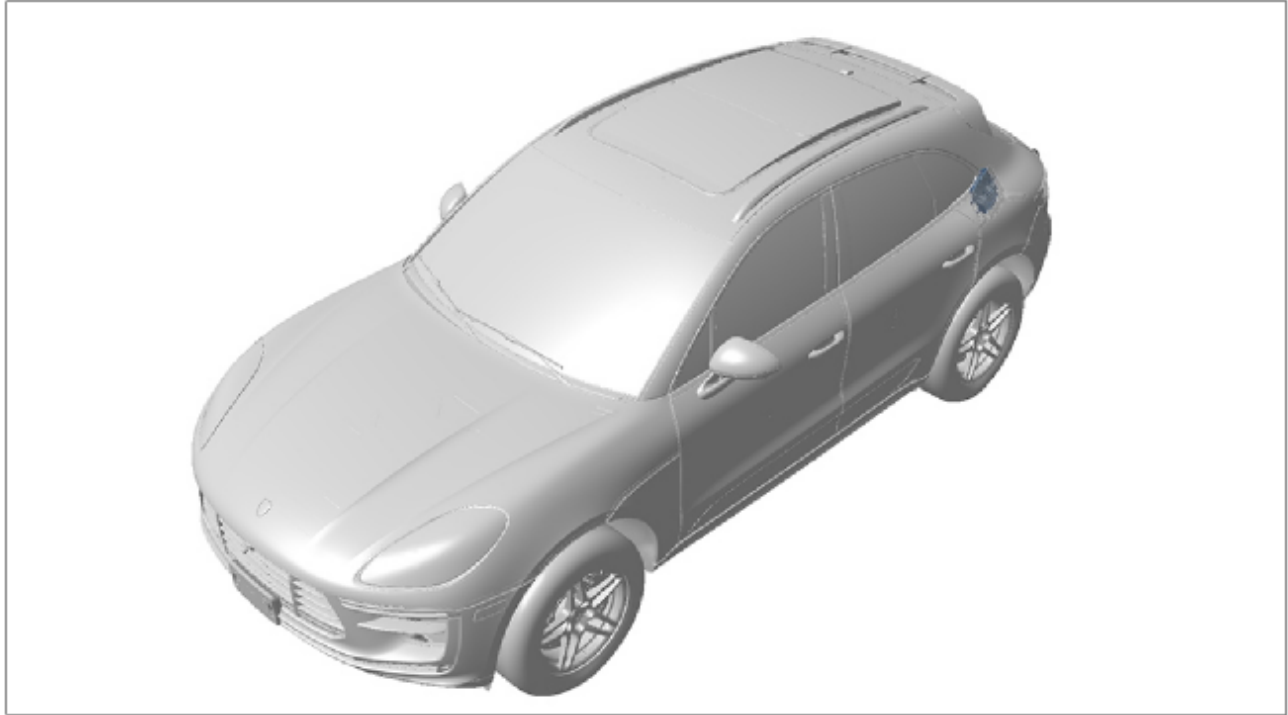
Every vehicle is assigned one campaign scope.

⇒ To find out which scope is assigned to each vehicle, see PCSS Vehicle Information.

Scope 4: Installing and teaching loudspeaker booster

Affected Vehicles: Only vehicles assigned to the campaign (see also PCSS Vehicle Information).

Installation
Position:



Installation position

– Loudspeaker booster (**retrofit**)

Parts required

Parts Info:	Part No.	Designation	Qty.
	V04015001FG	⇒ Booster	1 ea.
	N 90974701	⇒ Internal hexagon round tapping screw	4 ea.

Required tools

- Tools:
- Torque wrench, 2-10 Nm (1.5-7.5 ftlb.), e.g. **V.A.G 1783 - Torque wrench, 2-10 Nm (1.5-7.5 ftlb.)**
 - Battery charger with a current rating of **at least 90 A** and - if required - **also with a current and voltage-controlled charge map** for lithium starter batteries, e.g. **VAS 5908 Battery charger, 90 A**
 - **9900 - PIWIS Tester 3**

Installing loudspeaker booster

NOTICE

Incorrect handling of optical waveguides

- Risk of damage to optical waveguide
- ⇒ Observe the requirements for working with and installing optical waveguides.

NOTICE

Voltage peaks

- Risk of damage to electrical load or to the control unit
- ⇒ Switch off ignition and keep transmitter key outside of the transmission range (at least 5 m).
- ⇒ Switch off electrical loads before disconnecting or removing them.

Work
Procedure:



Information

Always comply with the regulations for handling ESD-sensitive components!

- Always wear approved work clothes and shoes when carrying out assembly work.
- Do not remove new parts from ESD (electrostatic discharge) protective packaging until shortly before installation.
- Do not touch electric pins and plug contacts.

- 1 Remove side trim panel for rear luggage compartment at the left. ⇒ *Workshop Manual '700319 Removing and installing side trim panel for rear luggage compartment'*

- 2 Position loudspeaker booster ⇒ *Loudspeaker booster -1-*, screw in fastening screws ⇒ *Loudspeaker booster -2-* and tighten to **Tightening torque 6 Nm (4.5ftlb.)** .



Information

The number of connecting lines for the loudspeaker booster will vary depending on equipment and the connecting lines are located close to the installation position. These may be fastened in place and may have to be exposed beforehand.

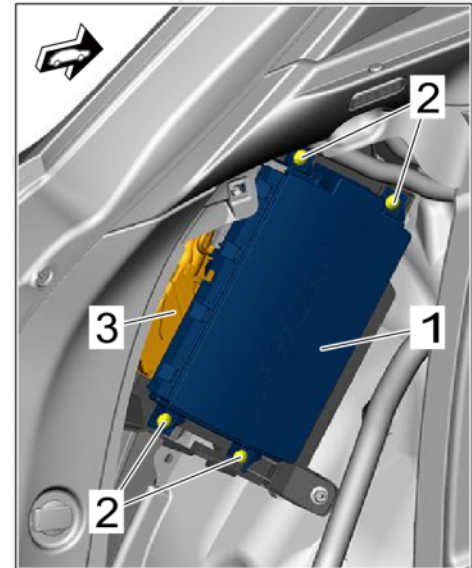
- 3 Plug in and lock electric plug connections ⇒ *Loudspeaker booster -3-*.
- 4 Install side trim panel for rear luggage compartment at the left. ⇒ *Workshop Manual '700319 Removing and installing side trim panel for rear luggage compartment'*
- 5 After installing the loudspeaker booster, continue as follows:

For vehicles with **Scope 4**, continue with ⇒ *Technical Information '700319 Teaching loudspeaker booster'*

For vehicles with **Scope 5**, enter the campaign in the Warranty and Maintenance booklet.

End of action required -

Continue with ⇒ *Technical Information '700319 Warranty processing'*



Loudspeaker booster

Teaching loudspeaker booster

NOTICE

Voltage drop

- Destruction of control unit
 - 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 ignition before connecting the control unit.
- ⇒ Ensure that the power supply is not interrupted during programming.

⇒ **Connect a battery charger with a current rating of at least Current 90 A to the vehicle battery.**

Work
Procedure:



Information

To carry out the campaign, the PIWIS Tester must be online and logged into the Porsche Partner Network (PPN).

- 1 Connect the PIWIS Tester to the vehicle communication module (VCI) via the USB cable. Then connect the communication module to the vehicle and switch on the PIWIS Tester.
- 2 Switch on the ignition.
- 3 Select the vehicle type if necessary.
- 4 In the **overview**, press •F7" to switch to the **Additional menu**. Press •F11" ('Next') to continue.
- 5 When the question "Create Vehicle Analysis Log (VAL)?" appears, either press •F12" ('Yes') to create a VAL or press •F11" ('No') if you do not want to create a VAL.
- 6 Select '**Commission component protection**'. Follow instructions and procedure. Press •F12" ('Next') to continue.
- 7 **Enter the PPN user name and password**. Press •F12" ('Next') to continue.
- 8 Allow the Tester to run the procedure.
- 9 Check the chassis number and enter the order number. Press •F12" ('Next') to continue.
- 10 Allow the Tester to run the procedure. Press •F12" ('Next') to continue.
- 11 The '**Commission component protection**' message appears. Press •F12" ('Next') to continue.
- 12 Once the teaching process is completed successfully, the following status is displayed:
Gateway: Component protection taught
PCM 4.0: Component protection taught
Booster: Component protection taught
Press •F12" ('Next') to continue.
- 13 The message "Component protection commissioning was successful" appears. Press •F12" ('Next') to continue.
- 14 Go back to the overview. Press •F11" ('Next') to continue.

- 15 Select the '**External booster**' control unit in the **overview**. Press •F12" ('Next') to continue.
- 16 Select '**Coding/adaptation**'.
- 17 Select '**Automatic coding**'. Press •F12" ('Next') to continue.
- 18 The message "Coding was completed successfully" appears. Press •F12" ('Next') to continue.
- 19 Read out and erase the fault memories of all control units.

- 19.1 Press •F7" in the control unit selection screen ('Overview' menu) to call up the Additional menu.
- 19.2 Select the function '**Read all fault memories and erase if required**'. Press •F12" ('Next') to continue. ⇒ *Erasing fault memories*

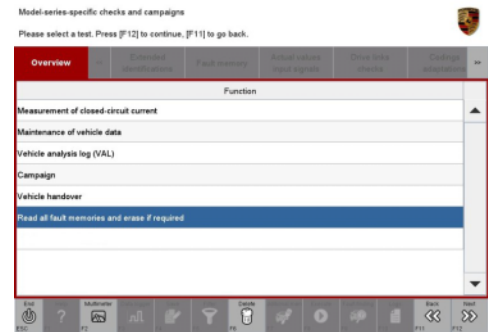
The fault memories of the control units are read out.

- 19.3 Once you have read out the fault memories, check the fault memory entries.



Information

If control units are found to have faults that are **not** caused by control unit programming, these must first be **found** and **corrected**. This work **cannot** be invoiced under the workshop campaign number.



Erasing fault memories

- 19.4 Press •F8" to delete fault memory entries.
- 19.5 Press •F12" ('Yes') in response to the question asking whether you really want to delete all fault memory entries.

The faults stored in the fault memories of the various control units are deleted.



Information

If fault memory entries for individual control units cannot be deleted, proceed as follows:

- Switch off ignition.
- Disconnect the PIWIS Tester diagnostic connector from the diagnostic socket.
- Lock the vehicle using the driver's key.
- Wait approx. 1 minute before unlocking the vehicle again.
- Start the engine, leave it running for a short time and then stop it again.
- Switch off the ignition and wait approx. 10 seconds before switching it back on again.

- Plug the PIWIS Tester diagnostic connector into the diagnostic socket again and restore communication with the vehicle.
 - Read out the fault memory again and delete any fault memory entries that are stored.
- 19.6 Once you have erased the fault memories, select the **'Overview'** menu to return to the control unit selection screen ⇒ *Control unit selection*.
- 20 Exit the diagnostic application. Switch off ignition. Disconnect the Tester from the vehicle.
- 21 Carry out a function test on the loudspeaker booster and check for audio output.
- 22 Enter the campaign in the Warranty and Maintenance booklet.



Control unit selection

Warranty processing



Information

The working times specified below were determined specifically for carrying out this campaign and may differ from the working times published in the PCSS Labor Operation List.

Scope 1: **Dummy scope – billing not possible**



Information

Scopes 2 and 3 are not valid for this vehicle type.

Scope 4: **Installing loudspeaker booster and teaching loudspeaker booster**

Valid for

- **Macan (95B)**

Working time:

Installing loudspeaker booster

Labor time: **43 TU**

Includes:

- Removing and installing side trim panel for rear luggage compartment at the left
- Teaching loudspeaker booster
- Reading out and erasing fault memories
- Function test

Parts required:

V04015001FG	Booster	1 ea.
N 90974701	Internal hexagon round tapping screw	4 ea.

⇒ **Damage Code WMLO 066 000 1**

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