ASA3 – Re-Program Reversing Camera Control Unit and, if necessary, Replace Reversing Camera and Surround View Cameras (Recall Campaign)

Important: **CRITICAL WARNING** -This campaign includes steps where control unit(s) in the vehicle will be programmed with the PIWIS Tester. The vehicle voltage must be maintained between 13.5 volts and 14.5 volts during this programming. Failure to maintain this voltage could result in damaged control unit(s). Damage caused by inadequate voltage during programming is not a warrantable defect. The technician must verify the actual vehicle voltage in the PIWIS Tester before starting the campaign and also document the actual voltage on the repair order.

Model Year: **As of 2024 up to 2026**

Change Overview:

Version	Date	Change
0	04/25/2025	▪ First publication
1	01/13/2026	▪ Update of Warranty processing ▪ Update of labor time for scope 1 and 2
2	04/20/2026	▪ Update of WSD0, changed to WSJ0

Model Line: **Macan Electric (XAB)**

Equipment: Front and rear ParkAssist assistance systems incl. reversing camera **(M-no. KA2)**
or
ParkAssist assistance systems incl. Surround View **(M-No. KA4)**

Concerns: **Reversing camera control unit**
Surround view camera

Cause: **In rare cases, the reversing camera of the affected vehicles cannot be activated when ParkAssist is switched on due to a software error. In addition, with a very small number of affected vehicles, it is possible that the housing of the reversing camera and individual surround view cameras in the surround view equipment option were not bonded as per default value specifications.**

As a result, no camera image is displayed in the central display when ParkAssist is activated contrary to the default value specifications. If the camera housing is not bonded correctly, moisture can penetrate and impair the camera image.

Action: Re-program reversing camera control unit using the PIWIS Tester and replace reversing camera and individual surround view cameras if necessary.

Information

Each vehicle was assigned exactly to one scope that includes the actions required for each vehicle.

The relevant scope assigned to the vehicle for this campaign can be seen in the PCSS Vehicle Information.

Information

The minimum programming requirement is the PIWIS Tester software release **43.300.040** (or higher).

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

Required Parts as and when necessary

Information

Each vehicle was assigned exactly to one scope that includes the actions required for each vehicle.

The relevant scope assigned to the vehicle for this campaign can be seen in the PCSS Vehicle Information.

The **part numbers** of the **required parts** for the respective vehicle can be viewed in the **assigned scope**. For an overview of the campaign scopes, see "Warranty processing".

Required tools

Tools:

- **P90999 - PIWIS Tester 4**
- Battery charger with a current rating of **at least 90 A** and a **current- and voltage-controlled charge map** for lithium starter batteries, e.g. **VAS 5908 battery charger 90 A**. For further information about the battery chargers to be used, see the corresponding Workshop Manual. ⇒ *Workshop Manual '270689 Charging vehicle electrical system battery'*

Additionally required tool to replace the reversing camera:

- 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.)**
- **VAS 6350A - Calibration unit**
- **VAS 6350/2A - Distance laser**

Additionally required tool to replace the front surround view camera (front camera):

- Torque wrench, 0.4 - 2 Nm (0.3-1.5 ftlb.), e.g.**VAS 6253A - torque wrench, 0.4 - 2 Nm (0.3-1.5 ftlb.)**
- Torque wrench, 40-200 Nm (30-148 ftlb.), e.g., **V.A.G 1332A - Torque wrench, 40-200 Nm (30-148 ftlb.)**
- **VAS 6266A - Wheel fitting trolley**

Additionally required tool to replace the left or right surround view camera:

- Torque wrench, 0.4 - 2 Nm (0.3-1.5 ftlb.), e.g.**VAS 6253A - torque wrench, 0.4 - 2 Nm (0.3-1.5 ftlb.)**

Overview of actions

Information

Every vehicle is assigned to exactly one campaign scope.

⇒ To determine the scope assigned to the relevant vehicle, see PCSS Vehicle Information.

The action to be carried out for the respective scope can be read in the following table.

Scope 1 and 2 only include the required programming of the reversing camera control unit.

Vehicles that are assigned to scope 2 are also assigned to the workshop campaign WSJ0 - extension to software network VR28.13 - and have not yet received this software update.
On these vehicles, the reversing camera control unit is programmed as part of the software update WSJ0.
For this purpose, please **carry out the workshop campaign WSJ0 without fail**.

	Action
Scope 1	Re-program reversing camera control unit. ⇒ *Technical Information '270689 Re-program reversing camera control unit'*
Scope 2	Re-program reversing camera control unit as part of the WSJ0 campaign implementation. ⇒ *Technical Information '270689 WSJ0 – Update to Software Network VR28.13 (Workshop Campaign)'*
Scope 3 - 10	Re-program reversing camera and replace various cameras. ⇒ *Technical Information '270689 Replace reversing camera and, if necessary, various surround view cameras'*

Replace reversing camera and, if necessary, various surround view cameras

Work Procedure: 1 Replace the reversing camera and, if necessary, various surround view cameras according to the assigned scope of the vehicle.

	Replacement of the following cameras:			
	Reversing camera control unit	**Front surround view camera (Front camera)**	**Left surround view camera**	**Right surround view camera**
Scope 3	**Yes**	No	No	No
Scope 4	**Yes**	**Yes**	No	No
Scope 5	**Yes**	No	**Yes**	No
Scope 6	**Yes**	No	No	**Yes**
Scope 7	**Yes**	**Yes**	**Yes**	No
Scope 8	**Yes**	**Yes**	No	**Yes**
Scope 9	**Yes**	No	**Yes**	**Yes**
Scope 10	**Yes**	**Yes**	**Yes**	**Yes**

Replace reversing camera.
For work procedure, see: ⇒*Workshop Manual '914319 Remove and install reversing camera control unit (J772)'*

Replace front surround view camera (front camera).
For work procedure, see: ⇒*Workshop Manual '916919 Remove and install front camera'*

Replace left/right surround view camera or both.
For work procedure, see: ⇒*Workshop Manual '916719 Remove and install side camera (R244)'*

2 Continue with ⇒*Technical Information '916719 Re-programming reversing camera control unit'*.

Re-program reversing camera control unit

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 process 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

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+).

Information

The entire **update process** for this action takes **approx. 5 minutes**.
However, the download speed of the update package depends on the performance of the local network and can vary accordingly.

Work Procedure:

1 Observe preconditions for control unit programming.
⇒ *Technical Information '9X10IN Basic instructions and procedure for control unit programming using 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!

Information

Before starting the diagnosis, it is essential for an ignition change to be performed on the vehicle.
Subsequently, after starting the diagnosis, the VCI is automatically initialized and the control unit data is loaded.

For additional information on the programming procedure and if the process is aborted, see ⇒ *Technical Information '9X10IN FAQs on control unit programming and coding'*.

2 Prepare the programming of the reversing camera control unit (J772).

2.1 Start new logging via P2 .

2.2 As soon as the control unit overview is displayed, open the additional menu F7 .

An overview of all campaigns to be carried out for the respective vehicle is then displayed automatically.

2.3 Confirm the campaigns to be carried out for the respective vehicle by pressing F12 , but do not start for the time being.

2.4 Create Vehicle Analysis Log. Flag the created VAL with "before repair".

2.5 During the **automatic integration test** on the PIWIS Tester, press F11 to **cancel** it.

3 Re-program the reversing camera control unit (J772).

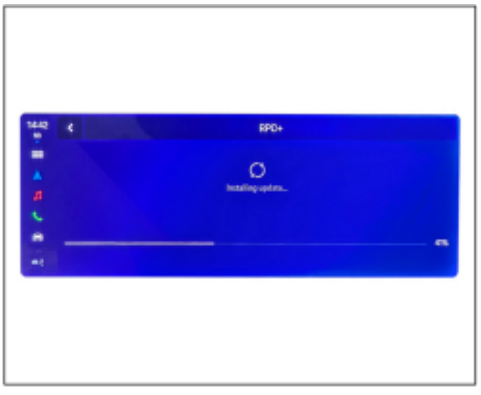
In the displayed additional menu, select and confirm the **"Control unit programming and coding (campaign)"** menu item.
The required software update for the reversing camera control unit is then displayed.
Start the software update with F8 and program as per the menu.

After updating is complete, a corresponding confirmation is displayed on the PIWIS Tester.

Information

During the update process, all displays in the vehicle (instrument cluster, central display and passenger display) are occasionally switched off. Programming nevertheless continues. **The ignition sequence must not be changed**.

If Wi-Fi coverage is insufficient, the connection between the PIWIS Tester and VCI can be interrupted (battery charge indicator inactive on the Tester display at the top right). The vehicle will, nevertheless, continue programming **independently**. In the meantime, no entry may be made on the PIWIS Tester, and the programming must not be restarted. In such a case, the progress of the update can still be followed inside the vehicle via the central display by activating the **"Messages"** tile.



Update progress on central display

For specific information on control unit programming during this campaign, see the table below.

Required PIWIS Tester software release:	**43.300.040** (or higher)
Type of control unit programming:	Control unit programming via the **"Programming and coding control units (campaign)"** function.
Campaign to be carried out: **ASA3**	

Programming sequence:	Read and follow the **information and instructions on the PIWIS Tester** during the guided programming sequence. **Do not interrupt the programming and coding process.** A backup documentation process for the re-programmed software releases starts after programming and coding.
Programming time (up to):	**5 minutes**
Procedure if error messages appear during programming sequence:	⇒ *Technical Information '9X10IN Basic instructions and procedure for control unit programming using the PIWIS Tester'*
Procedure in the event of a termination in the control unit programming:	**Continue the campaign sequence to the end, then carry out the integration test again when the test is complete and restart programming by entering the programming code.** Specific information on how to proceed if aborted: ⇒ *Technical Information '9X10IN FAQs on control unit programming and coding'*

4 After programming is completed, perform a vehicle bus idle.

4.1 Go back to the control unit overview by pressing F11 .

4.2 End the readiness for operation of the vehicle (ignition off).

4.3 Wait for **5 minutes** with the driver's door open.

4.4 Establish readiness for operation (ignition on).

5 Check readiness for driving the vehicle.

5.1 Operate the footbrake and keep it pressed.

5.2 Use the selector lever to engage driving gears D and R one after the other. The selected gear must be displayed in the gear indicator on the instrument cluster.

5.3 Activate the parking lock via button P.

6 End readiness for operation (ignition off) and restore it after waiting for approx. 30 seconds (ignition on).

7 Read out and delete fault memory.

Information

If control units are found to have faults that are **not** caused by control unit programming, these must first be **found** and **corrected**.

Information

Due to the vehicle diagnosis and coding/programming, fault memory entries that do not indicate an actual fault in the vehicle can be stored.
These fault memory entries can be deleted for the most part after repeated starting and a test drive.

The following fault memory entry is always stored as part of a vehicle diagnosis with the PIWIS Tester and does not represent an actual fault:

Control unit	Fault code	Description
"various" control units	B184C00	Protection of vehicle diagnostics, actuation active
Main control unit for gateway HCP5 (J1273)	U17A000	Diagnostic filter, access protection deactivated
Drive and chassis main control unit HCP1 (J1312)	C140DF0	Vehicle Protected Environment (VPE), vehicle protection activated

7.1 If necessary, restore communication of the PIWIS Tester with the vehicle.

7.2 Press F7 to call up the additional menu on the PIWIS Tester.

7.3 Select and confirm the menu item **"Read/delete all fault memories"** and press to confirm.

7.4 Press F8 to delete the displayed fault memory entries.

8 Create Vehicle Analysis Log again. To do this, press F7 to access the additional menu and select create protocol.
Flag the created VAL with "after repair".

9 End the diagnostic application, end readiness for operation (ignition off) and disconnect the PIWIS Tester from the vehicle.

10 Switch off and disconnect the battery charger.

11 Enter campaign in the Warranty and Maintenance logbook.

Warranty processing

Information

The specified labor times were determined specifically for carrying out this campaign and include all necessary preliminary work and rework. The labor times can differ from the labor time published in the Labor Operation List in the PCSS.

Please be advised that due to the publication of WSJ0 Workshop Campaign – Update to software network VR28.13, ASA3 is now obsolete, as the ASA3 update is contained in the VR28.13 software

Since ASA3 is a Recall, vehicles will not have the campaign auto-closed, but repair scopes 1 and 2 (no parts replacement) will be reduced to 10TU, so the dealer is only paid for writing up the campaign completion. The actual execution of the campaign is no longer necessary unless parts need to be replaced (scopes 3 through 10).

Scope 1: **Re-program reversing camera control unit**

- Campaign WSJ0 already implemented

Labor time:

Re-program reversing camera control unit		Labor time: **10 TU**
Includes:	Connecting and disconnecting battery charger Connect and disconnect PIWIS Tester Read out and delete fault memories	

⇒ **Damage number ASA3 099000 1**

Scope 2: **Re-program reversing camera control unit**

- Campaign WSJ0 open

Information

Programming of the reversing camera as part of the WSJ0 campaign implementation (expansion to software network VR28.13).

Labor time:

Re-program reversing camera control unit		Labor time: **10 TU**
Includes:	Re-program reversing camera control unit as part of campaign WSJ0	

⇒ **Damage number ASA3 099000 1**

Scope 3: **Re-program reversing camera control unit and replace reversing camera**

Labor time:

Re-program reversing camera control unit and replace reversing camera — Labor time: **230 TU**

Includes:
- Replace reversing camera
- Re-program reversing camera control unit
- Connecting and disconnecting battery charger
- Connect and disconnect PIWIS Tester
- Read out and delete fault memories

Required parts:

Part No.	Designation	Quantity
PAD980568C	Control unit with camera for reversing camera system	1 piece(s)

⇒ **Damage number ASA3 099000 2**

Scope 4: **Re-program reversing camera control unit and replace reversing camera and front camera**

Labor time:

Re-program reversing camera control unit and replace reversing camera and front camera — Labor time: **556 TU**

Includes:
- Replace reversing camera
- Replace front camera
- Re-program reversing camera control unit
- Connecting and disconnecting battery charger
- Connect and disconnect PIWIS Tester
- Read out and delete fault memories

Required parts:

Part No.	Designation	Quantity
PAD980568C	Control unit with camera for reversing camera system	1 piece(s)
PAD980551	Camera exterior mirror housing bumper	1 piece(s)

⇒ **Damage number ASA3 099000 2**

Scope 5: **Re-program reversing camera control unit and replace reversing camera and camera on left side**

Labor time:

Re-program reversing camera control unit and replace reversing camera and camera on left side — Labor time: **271 TU**

Includes:
- Replace reversing camera
- Replace left surround view camera
- Re-program reversing camera control unit
- Connecting and disconnecting battery charger
- Connect and disconnect PIWIS Tester
- Read out and delete fault memories

Required parts:

Part No.	Designation	Quantity
PAD980568C	Control unit with camera for reversing camera system	1 piece(s)
PAD980551	Camera exterior mirror housing bumper	1 piece(s)

⇒ **Damage number ASA3 099000 2**

Scope 6: **Re-program reversing camera control unit and replace reversing camera and camera on right side**

Labor time:

Re-program reversing camera control unit and replace reversing camera and camera on right side — Labor time: **271 TU**

Includes:
- Replace reversing camera
- Replace right surround view camera
- Re-program reversing camera control unit
- Connecting and disconnecting battery charger
- Connect and disconnect PIWIS Tester
- Read out and delete fault memories

Required parts:

Part No.	Designation	Quantity
PAD980568C	Control unit with camera for reversing camera system	1 piece(s)
PAD980551	Camera exterior mirror housing bumper	1 piece(s)

⇒ **Damage number ASA3 099000 2**

Scope 7: **Re-program reversing camera control unit and replace reversing camera, front camera and camera on left side**

Labor time:

Re-program reversing camera control unit and replace reversing camera, front camera and camera on left side — Labor time: **597 TU**

Includes:
- Replace reversing camera
- Replace front camera
- Replace left surround view camera
- Re-program reversing camera control unit
- Connecting and disconnecting battery charger
- Connect and disconnect PIWIS Tester
- Read out and delete fault memories

Required parts:

Part No.	Designation	Quantity
PAD980568C	Control unit with camera for reversing camera system	1 piece(s)
PAD980551	Camera exterior mirror housing bumper	2 piece(s)

⇒ **Damage number ASA3 099000 2**

Scope 8: **Re-program reversing camera control unit and replacing reversing camera, front camera and camera on right side**

Labor time:

Re-program reversing camera control unit and replacing reversing camera, front camera and camera on right side — Labor time: **597 TU**

Includes:
- Replace reversing camera
- Replace front camera
- Replace right surround view camera
- Re-program reversing camera control unit
- Connecting and disconnecting battery charger
- Connect and disconnect PIWIS Tester
- Read out and delete fault memories

Required parts:

Part No.	Designation	Quantity
PAD980568C	Control unit with camera for reversing camera system	1 piece(s)
PAD980551	Camera exterior mirror housing bumper	2 piece(s)

⇒ **Damage number ASA3 099000 2**

Scope 9: **Re-program reversing camera control unit and replace reversing camera and camera on left and right side**

Labor time:

Re-program reversing camera control unit and replace reversing camera, front camera and camera on left and right side — Labor time: **312 TU**

Includes:
- Replace reversing camera
- Replace left surround view camera
- Replace right surround view camera
- Re-program reversing camera control unit
- Connecting and disconnecting battery charger
- Connect and disconnect PIWIS Tester
- Read out and delete fault memories

Required parts:

Part No.	Designation	Quantity
PAD980568C	Control unit with camera for reversing camera system	1 piece(s)
PAD980551	Camera exterior mirror housing bumper	2 piece(s)

⇒ **Damage number ASA3 099000 2**

Scope 10: **Re-program reversing camera control unit and replace reversing camera, front camera and camera on left and right side**

Labor time:

Replace reversing camera, front surround view camera, replace left and right surround view camera and re-program reversing camera control unit — Labor time: **639 TU**

Includes:
- Replace reversing camera
- Replace front camera
- Replace left surround view camera
- Replace right surround view camera
- Re-program reversing camera control unit
- Connecting and disconnecting battery charger
- Connect and disconnect PIWIS Tester
- Read out and delete fault memories

Required parts:

Part No.	Designation	Quantity
PAD980568C	Control unit with camera for reversing camera system	1 piece(s)
PAD980551	Camera exterior mirror housing bumper	3 piece(s)

⇒ **Damage number ASA3 099000 2**

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