

WE51 - Re-programming Trailer Hitch Control Unit or Replacing it if Necessary (Workshop Campaign)

Important: **CRITICAL WARNING** - THIS CAMPAIGN INCLUDES STEPS WHERE SEVERAL CONTROL UNITS IN THE VEHICLE WILL BE PROGRAMMED WITH THE PIWIS TESTER. IT IS CRITICAL THAT THE VEHICLE VOLTAGE BE BETWEEN 13.5 VOLTS AND 14.5 VOLTS DURING THIS PROGRAMMING. OTHERWISE, THE PROGRAMMING COULD FAIL RESULTING IN DAMAGED CONTROL UNITS. CONTROL UNITS DAMAGED BY INADEQUATE VOLTAGE WILL NOT BE COVERED UNDER WARRANTY. THE TECHNICIAN MUST VERIFY THE ACTUAL VEHICLE VOLTAGE IN THE INSTRUMENT CLUSTER OR IN THE PIWIS TESTER BEFORE STARTING THE CAMPAIGN AND ALSO DOCUMENT THE ACTUAL VOLTAGE ON THE REPAIR ORDER. IT IS ALSO ADVISABLE TO MONITOR THE VEHICLE VOLTAGE DURING THE PROGRAMMING VIA THE INSTRUMENT CLUSTER. PLEASE REFER TO EQUIPMENT INFORMATION EQ-1105 FOR A LIST OF SUITABLE BATTERY CHARGERS/POWER SUPPLIES WHICH SHOULD BE USED TO MAINTAIN VEHICLE VOLTAGE.

Model Year: **As of 2014 up to 2015**

Model Line: **Macan**

Equipment:

- Electrically extendable trailer hitch (I-no. 1D3)
- Trailer hitch without ball joint (I-no. 1D6)

Concerns: **Trailer hitch control unit**

Information: This is to inform you of a voluntary Workshop Campaign on the above-mentioned vehicles. **Due to a software error, there is a possibility that the trailer hitch control unit on the affected vehicles will not switch to energy-saving mode at times after the ignition is switched off.**

This can result in an increased closed-circuit current load and can thus cause the vehicle battery to become discharged.

Affected Vehicles: The VIN(s) can be checked by using PIWIS Vehicle Information link to verify if the campaign affects the vehicle. This campaign is scope specific to the VIN! Failure to verify in PIWIS may result in an improper repair. This campaign affects 861 vehicles in North America.

Action Required: **NOTE:** ALL NORTH AMERICAN AFFECTED VINS ARE SCOPE 2 ONLY.

The **action required** depends on which **campaign scope** is assigned to **each vehicle**.

- Vehicle is assigned **both Scope 1 and Scope 2: First check the software version of the trailer hitch control unit**. For instructions on how to do this, see ⇒ *Technical Information 'WE5100 Checking software version of the trailer hitch control unit'*. Depending on the software version, the control unit must either be re-programmed **or** replaced.
- Vehicle is **only** assigned **Scope 2: Re-program the trailer hitch control unit**. For instructions on how to do this, see ⇒ *Technical Information 'WE5100 Re-programming trailer hitch control unit'*.

Parts Info:

**Information**

Only **the two vehicles specified below** with the I-no. **1D3** (electrically extendable trailer hitch) are assigned both Scope 1 and Scope 2, which means that the trailer hitch control unit will **only have to be replaced** on these two vehicles **if necessary**:

- WP1ZZZ95ZFLB90048
- WP1ZZZ95ZFLB50066

Please note that a new trailer hitch control unit must only be ordered if the initial software version check indicates that the control unit actually needs to be replaced.

Part No.	Designation	Qty.
4H0.907.383.N	Trailer hitch control unit (I-no. 1D3)	1 ea. (only if required)

On **all other vehicles**, the trailer hitch control unit can be **re-programmed** and **must not be replaced**.

Work
Procedure:

See Attachment "A".

Claim
Submission:

See Attachment "B".

Checking software version of the trailer hitch control unit

Tools:

- **9818 - PIWIS Tester II** with PIWIS Tester software version **14.400** (or higher) installed.
- **Battery Charger / Power Supply** - Suitable for AGM Type batteries, recommended current rating of 70A fixed voltage 13.5V to 14.5V. Refer to Equipment Information EQ-1105.

**Information**

The procedure described here is based on the PIWIS Tester II software version **14.400**.

The PIWIS Tester instructions take precedence and in the event of a discrepancy, these are the instructions that must be followed.

A discrepancy may arise with later software versions for example.

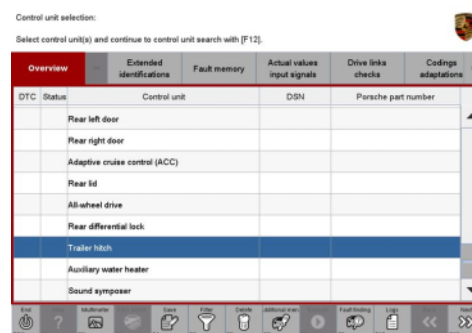
Attachment "A": **Work Procedure**

- 1 Connect a battery charger or power supply, suitable for AGM type batteries, recommended current rating of 70A fixed voltage 13.5V to 14.5V to the jump-start terminals in the engine compartment.
- 2 Switch on the ignition using the **original driver's key**.
To do this, replace the control panel in the ignition lock with the original driver's key if necessary.

- 3 **9818 - PIWIS Tester II** must be connected to the vehicle communication module (VCI) via the USB cable. Then, connect the communication module to the vehicle and switch on the PIWIS Tester.
- 4 On the PIWIS Tester start screen, call up the ⇒ **'Diagnostics'** menu and select the vehicle type **'Macan'**.

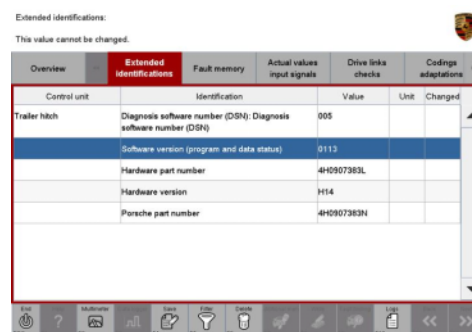
The diagnostic application is then started and the control unit selection screen is populated.

- 5 Select the ⇒ **'Trailer hitch'** control unit in the control unit selection screen (⇒ **'Overview'** menu) and press •>> “ to confirm your selection ⇒ *Control unit selection - Trailer hitch*.



Control unit selection - Trailer hitch

- 7 Press •>> “ to acknowledge the message that appears informing you that campaigns for the vehicle are stored in the PIWIS information system.
- 8 Once the 'Trailer hitch' control unit has been found, select the ⇒ **'Extended identification'** menu.
- 9 Read out the software version of the trailer hitch control unit ⇒ *Extended identification - Software version*.



Extended identification - Software version

- The software version that was read out is **lower than 0113** (e.g. 0081, 0101 or 0111): The trailer hitch control unit must be **replaced**. For instructions on how to do this, see ⇒ *Technical Information 'WE5100 Replacing trailer hitch control unit'*.
- The software version that was read out is **0113**: The trailer hitch control unit must be **re-programmed**. For instructions on how to do this, see ⇒ *Technical Information 'WE5100 Re-programming trailer hitch control unit'*.
- The software version that was read out is **0137** (or higher): The **software version** is already **up-to-date** ⇒ **no further action is required**. Enter the campaign in the Warranty and Maintenance booklet. [Invoicing: **Scope 1**]

Replacing trailer hitch control unit

Attachment "A": **Work Procedure**

NOTE: VEHICLE VOLTAGE MUST REMAIN BETWEEN 13.5 AND 14.5 VOLTS DURING THE ENTIRE WORK PROCEDURE.

- 1 Replace the old trailer hitch control unit with a new trailer hitch control unit, Porsche Part No. 4H0.907.383.N. ⇒ *Workshop Manual '669619 Removing and installing trailer hitch control unit'* and ⇒ *Workshop Manual '669655 Replacing trailer hitch control unit'*.
- 2 Enter the workshop campaign in the Warranty and Maintenance booklet.



Information

Replacement of the trailer hitch control unit must be invoiced using a **separate warranty claim** containing the following details:

- Damage code **6696 97 000**, **Repair code 2**
- PQIS coding (cause): **66960 9735**
- Comment (further information): Campaign WE51

Campaign scope 1 must be invoiced for **checking the software version** of the trailer hitch control unit beforehand ⇒ *Technical Information 'WE5100 Invoicing'*.

Re-programming trailer hitch control unit

- Tools:
- **9818 - PIWIS Tester II** with PIWIS Tester software version **14.400** (or higher) installed
 - **Battery Charger / Power Supply** - Suitable for AGM Type batteries, recommended current rating of 70A fixed voltage 13.5V to 14.5V. Refer to Equipment Information EQ-1105.

Attachment "A": **Work Procedure**

Preliminary work

NOTICE

Fault entry in the fault memory and control unit programming aborted due to low voltage.

- **Increased current draw during diagnosis or control unit programming can cause a drop in voltage, which can result in one or more fault entries and the abnormal termination of the programming process.**
- ⇒ **Before starting control unit programming, connect a battery charger or power supply, suitable for AGM type batteries, recommended current rating of 70A fixed voltage 13.5V to 14.5V.**

NOTICE

Control unit programming will be aborted if the Internet connection is unstable.

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

NOTICE

Control unit programming will be aborted if the vehicle key is not recognized

- If the vehicle key is not recognized in vehicles with Porsche Entry & Drive, programming cannot be started or will be interrupted.
- ⇒ Switch on the ignition using the original vehicle key. To do this, replace the original vehicle key in the ignition lock with the plastic key fob if it was previously removed at the start of this procedure.



Information

The procedure described here is based on the PIWIS Tester II software version **14.400**.

The PIWIS Tester instructions take precedence and in the event of a discrepancy, these are the instructions that must be followed.

A discrepancy may arise with later software versions for example.

NOTE: VEHICLE VOLTAGE MUST REMAIN BETWEEN 13.5 AND 14.5 VOLTS DURING THE ENTIRE WORK PROCEDURE.

- 1 Carry out general preliminary work for control unit programming as described in ⇒ *Workshop Manual '9X00IN Basic instructions and procedure for control unit programming using the PIWIS Tester - section on "Preliminary work"*.

Carry out control unit programming.

- 1 Re-program the trailer hitch control unit.

The basic procedure for programming a control unit is described in the Workshop Manual - ⇒ *Workshop Manual '9X00IN Basic instructions and procedure for control unit programming using the PIWIS Tester - section on "Programming"*.

Specific information on control unit programming during this campaign:

Required PIWIS Tester software version:	14.400 (or higher)
Type of control unit programming:	Control unit programming using the ' Campaign ' function in the Additional menu on the PIWIS Tester by entering a programming code.
Programming code:	Y4W3S

Programming sequence:	Read and follow the information and instructions on the PIWIS Tester during the guided programming sequence. During the programming sequence, the trailer hitch control unit is re-programmed and then re-coded automatically . Do not interrupt programming and coding.
Programming time (approx.):	2 minutes
Software version programmed during this campaign:	0137 Following control unit programming, the software version can be read out of the ' Trailer hitch ' control unit in the ⇒ ' Extended identification ' menu using the PIWIS Tester.
Procedure if control unit programming cannot be carried out:	Read out the fault memory. If active fault memory entries that cannot be deleted are stored in the ' Trailer hitch ' control unit, these faults must first be found and corrected . This work cannot be invoiced under the workshop campaign number. Once existing faults have been corrected and the fault memory has been erased, restart control unit programming.
Procedure in the event of error messages appearing during the programming sequence:	⇒ <i>Workshop Manual '9X00IN Basic instructions and procedure for control unit programming using the PIWIS Tester - section on "Troubleshooting"</i> .
Procedure in the event of abnormal termination of control unit programming:	Repeat control unit programming by entering the programming code again.



Information

When programming is complete, the fault code **C10E454 – Electric swivel unit, incorrect basic setting** will be stored in the fault memory of the '**Trailer hitch**' control unit.

To delete this fault memory entry, first **initialise the trailer hitch control unit** as described below.

Subsequent work



Extending and retracting the trailer hitch

- When extending and retracting the trailer hitch, parts of the body can get in between the moving trailer hitch and fixed parts of the vehicle and become trapped or squashed.

⇒ Make sure that no persons or objects are within the movement range of the ball hitch.

NOTICE

Retracting the trailer hitch with adapter fitted.

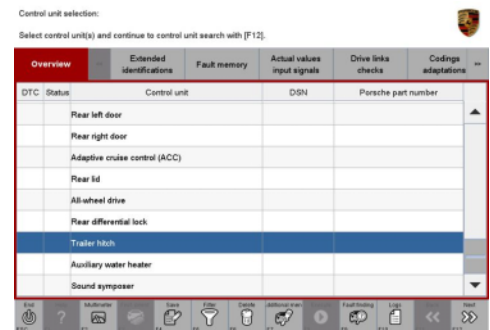
- Risk of damage to the vehicle or trailer hitch

⇒ Remove adapter before retracting the trailer hitch.

1 Initialize the trailer hitch control unit.

1.1 Select the **'Trailer hitch'** control unit in the control unit selection screen (⇒ 'Overview' menu) and press •>> “ to confirm your selection ⇒ *Control unit selection - Trailer hitch*.

1.2 Once the 'Trailer hitch' control unit has been found and is displayed in the overview, select the ⇒ **'Drive links / checks'** menu.



Control unit selection - Trailer hitch

1.3 Select ⇒ **'Initialization of trailer control unit'** and press •>> “ to confirm your selection ⇒ *Initialization of trailer control unit*.

1.4 Start the routine for initializing the trailer hitch control unit by pressing •F8 “.



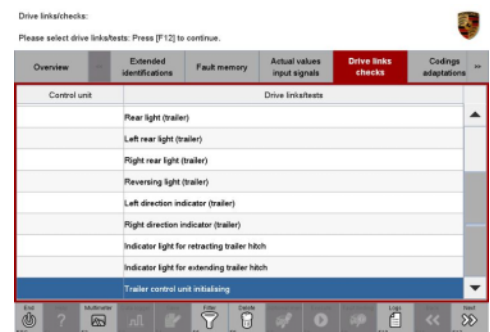
Information

During the routine, the trailer hitch is extended and then retracted again fully once.

During initialization, the indicator lights on the buttons for extending and retracting the trailer hitch at the right of the luggage compartment start flashing. Once the routine has finished and the trailer hitch is fully retracted again, the indicator light on the button for retracting the trailer hitch in the luggage compartment stays on.

If the routine is interrupted after extending the trailer hitch, the routine must be started again by pressing •F8 “ so that the trailer hitch is retracted again. In some cases, it may be necessary to restart the routine several times in order to retract the trailer hitch again.

The routine ends automatically once the trailer hitch is retracted fully again.



Initialization of trailer control unit

- 1.5 Once the trailer hitch control unit has been initialized and the routine has ended, press •<< “ to return to the start page of the ⇒ **'Drive links / checks'** menu.
- 1.6 Select the ⇒ **'Overview'** menu to return to the control unit selection screen.
- 2 Read out and erase all fault memories.
 - 2.1 In the control unit selection screen (⇒ **'Overview'** menu), press •F7 “ to call up the Additional menu.
 - 2.2 Select the function “Read all fault memories and erase if required” and press •>> “ to confirm ⇒ *Erasing fault memories*.

The fault memories of the control units are read out.
 - 2.3 Once you have read out the fault memories, delete the fault memory entries by pressing •F8 “.
 - 2.4 Press •F12 “ (“Yes”) in response to the question as to whether you really want to erase all fault memory entries.

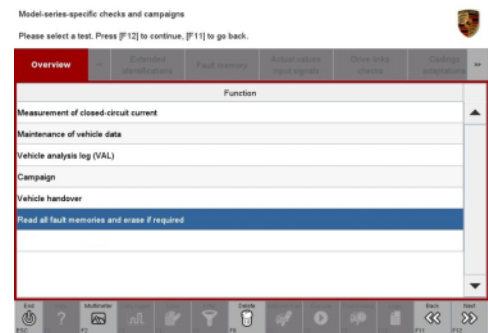
The faults stored in the fault memories of the various control units are deleted.
 - 2.5 Select the ⇒ **'Overview'** menu and press •<< “ to return to the control unit selection screen ⇒ *Control unit selection*.



Information

If fault memory entries are still present in some control units, switch off the ignition and lock the vehicle. Wait for **approx. 1 minute**, then unlock the vehicle again, switch on the ignition and restore the connection between the PIWIS Tester and the vehicle. Then, read out and erase the fault memories again separately.

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



Erasing fault memories



Control unit selection



Extending and retracting the trailer hitch

- When extending and retracting the trailer hitch, parts of the body can get in between the moving trailer hitch and fixed parts of the vehicle and become trapped or squashed.

⇒ Make sure that no persons or objects are within the movement range of the ball hitch.

NOTICE

Retracting the trailer hitch with adapter fitted.

- Risk of damage to the vehicle or trailer hitch

⇒ Remove adapter before retracting the trailer hitch.

3 Perform a function test on the trailer hitch.

3.1 Open the luggage compartment lid.

3.2 Extend the trailer hitch. To do this, press button ⇒ *Extending trailer hitch -A-* at the right in the luggage compartment.

Requirements:

- The vehicle must be stationary
- The rear lid must be open

The ball hitch moves automatically into operating position.

The indicator light on the button flashes while the ball hitch is swivelling into position.

Once the ball hitch has reached its operating position, the indicator light on the button stays on.



Extending trailer hitch

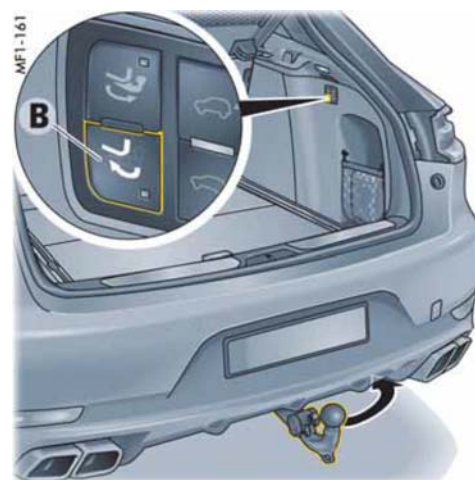
3.3 Retract the trailer hitch. To do this, press button ⇒ *Retracting trailer hitch -B-* at the right in the luggage compartment.

Requirements:

- The vehicle must be stationary
- The rear lid must be open
- The trailer must be unhitched
- Connectors (and any adapters) must be removed from the socket
- There must not be any accessories on the ball hitch (e.g. ball protection cap)

The ball hitch moves automatically into rest position.

The indicator light on the button flashes while the ball hitch is swivelling into position.



Retracting trailer hitch

Once the ball hitch has reached its rest position, the indicator light on the button stays on.

3.4 Close the luggage compartment lid.

4 Enter the workshop campaign in the Warranty and Maintenance booklet.

[Invoicing: **Scope 2**].

Attachment "B": **Claim Submission** - Workshop Campaign WE51

Warranty claims should be submitted via WWS/PQIS.

Open campaigns may be checked by using either the PIWIS Vehicle Information system or through PQIS Job Creation.

Labor, parts, and sublet will be automatically inserted when Technician is selected in WWS/PQIS. If necessary, the required part numbers will need to be manually entered into warranty system by the dealer administrator.

Scope 1: **Checking software version of the trailer hitch control unit**

Working time:

Checking software version of trailer hitch control unit

Labor time: **13 TU**

Includes: Connecting and disconnecting battery charger
Connecting and disconnecting PIWIS Tester

Without: Replacing trailer hitch control unit (This is invoiced using a separate warranty claim)

⇒ **Damage code WE51 066 000 1**

Scope 2: **Re-programming trailer hitch control unit**

Working time:

Re-programming trailer hitch control unit

Labor time: **38 TU**

Includes: Connecting and disconnecting battery charger
Connecting and disconnecting PIWIS Tester
Reading out and erasing fault memories
Initializing trailer hitch control unit

Performing function test on trailer hitch

⇒ **Damage code WE51 066 000 1**

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