

WF29 - Re-programming All-wheel Drive Control Unit (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: 2015

Vehicle Type: Macan S/Macan Turbo

Concerns: All-wheel drive control unit

Information: This is to inform you of a voluntary Workshop Campaign on the above-mentioned vehicles. **Due to an error in the current software for the all-wheel drive control unit, there is a possibility that the all-wheel drive control unit will not be initialized at times after switching on the ignition and as a result, the vehicle's CAN system cannot establish communication with the all-wheel drive control unit.**

If this happens, the yellow warning message "No all-wheel sys. – Only rear-wh drive – Adapted driving permitted" will be displayed in the multi-function display on the instrument cluster and only rear-wheel drive will be available.

Action Required: Re-program all-wheel drive control unit.



Information

When the **all-wheel drive control unit** is programmed, the **PDK control unit** is also re-programmed automatically. It takes **approx. 5 minutes** in total to **program** the control units.

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 6 vehicles in North America.

- Tools:**
- **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.
 - **9818 - PIWIS Tester II** with PIWIS Tester software version **15.400** (or higher) installed.

Work Procedure: See Attachment "A".

Claim Submission: See Attachment "B".

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.

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"*.

Carrying out control unit programming



Information

The procedure described here is based on the PIWIS Tester II software version **15.400**.

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.

Procedure: **1 Re-program all-wheel drive 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:	15.400 (or higher)
Type of control unit programming:	Control unit programming using the ' Automatic programming ' function for the all-wheel drive control unit. Control unit ⇒ ' All-wheel drive ' > menu ⇒ ' Programming ' >> function ' Automatic programming '.
Programming sequence:	Read and follow the information and instructions on the PIWIS Tester during the guided programming sequence. The fault memory is first deleted during the programming sequence. If the message appears informing you that certain fault memory entries could not be deleted, acknowledge the message by pressing •>> and start control unit programming. During programming, the PDK control unit and the all-wheel drive control unit will be re-programmed and then re-coded automatically . Do not interrupt programming and coding. Once the control units have been programmed and coded, the PIWIS Tester will prompt you to switch the ignition off and then back on again after a waiting time of approx. 10 seconds .
Programming time (approx.):	5 minutes

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 restarting programming. If this is not possible, restart the PIWIS Tester and then execute control unit programming again.

Subsequent work

- Procedure:
- 1 Carry out general subsequent work for control unit programming as described in the Workshop Manual ⇒ *Workshop Manual '9X00IN Basic instructions and procedure for control unit programming using the PIWIS Tester - section on "Subsequent work"*.
 - 2 Enter the workshop campaign in the Warranty and Maintenance booklet.



Information

The specified working time was determined specifically for carrying out this campaign and may differ from the working times published in the Labour Operation List in PIWIS.

Attachment "B": **Claim Submission** - Workshop Campaign WF29
 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.

Working time:

Re-programming all-wheel drive control unit

Labor time: **36 TU**

Includes: Connecting and disconnecting battery charger
 Connecting and disconnecting PIWIS Tester
 Re-programming PDK control unit

Reading out and erasing fault memories

⇒ Damage code WF29 066 000 1

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