WJ06 - Re-coding Gateway Control Unit (Workshop Campaign)

Vehicle Type: **Panamera (971)**

Model Year: **2017**

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.

Equipment: Sport exhaust system (I-no. 0P8 or 0P9)

Subject: **Gateway control unit**

Information: **Due to a software error, the sport exhaust system can remain activated after switching the ignition on and off again although it is shown as inactive in the Vehicle menu.**

Remedial Action:
- Restore driving modes
- Re-code gateway control unit

Affected Vehicles: Only the vehicles assigned to the campaign (see also PIWIS Vehicle information). This campaign affects 858 vehicles in North America.

Required Tools

NOTICE

Use of a PIWIS Tester software version that is older than the prescribed version

- **Measure is ineffective**

⇒ **Always use the prescribed version or a higher version of the PIWIS Tester software for control unit programming.**

Tools:
- **9900 - PIWIS Tester 3** with PIWIS Tester software version **37.000.030** (or higher) installed
- Battery charger with a current rating of **at least 90 A**, e.g. **VAS 5908 - battery charger 90A**

Preparatory Work

NOTICE

Fault entry in the fault memory and / or control unit coding aborted due to low voltage.

- **Increased current draw during diagnosis or control unit coding can cause a drop in voltage, which can result in one or more fault entries and the abnormal termination of the coding process.**

⇒ **Before starting control unit coding, connect a suitable battery charger with a current rating of at least 90 A to the vehicle.**

NOTICE

Coding will be aborted if the WLAN connection is unstable.

- **An unstable WiFi connection can interrupt communication between the PIWIS Tester and the vehicle communication module (VCI). As a result, coding may be aborted.**

⇒ **During control unit coding, always connect the PIWIS Tester to the vehicle communication module (VCI) via the USB cable.**

NOTICE

Control unit coding will be aborted if the driver's key is not recognized

- **If the driver's key is not recognized in the vehicle, coding cannot be started or will be interrupted.**

⇒ **Place the driver's key with the back facing down into the front left storage compartment in the center console to guarantee a continuous radio link between the vehicle and the driver's key.**

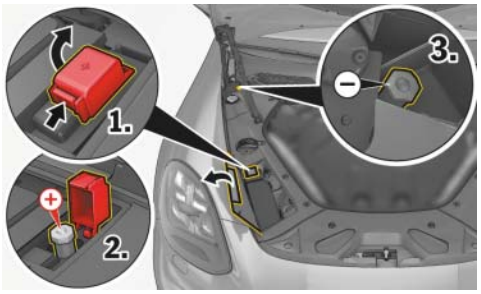
Information

The procedure described here is based on the PIWIS Tester software version **37.000.030**.

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.

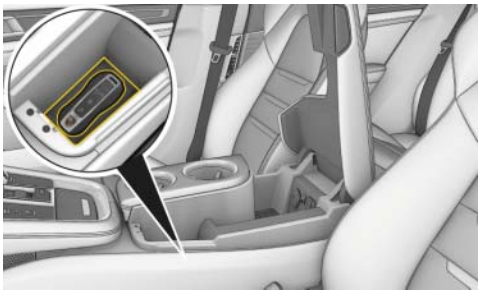
Work Procedure: 1

Connect a battery charger with a current rating of **at least 90 A** (e.g. **VAS 5908 - Battery charger 90A**).
First connect the positive cable of the charger to the positive terminal ⇒*Jump-start terminals* **-2-** and then connect the negative cable of the charger to the ground point for jump-lead starting ⇒*Jump-start terminals* **-3-**.
Then switch on the battery charger and start trickle charging the battery.



Jump-start terminals

2 Place the driver's key with the back facing down into the front left storage compartment in the center console ⇒*Driver's key in storage compartment*. This will guarantee an uninterrupted radio link between the vehicle and the driver's key.



Driver's key in storage compartment

3 **9900 - PIWIS Tester 3** 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 Switch on the ignition.

5 On the PIWIS Tester start screen, call up the **'Diagnostics'** application.
The vehicle type is then read out, the diagnostic application starts and the control unit selection screen is populated.

Restoring Driving Modes

Information

To restore the driving modes, the PIWIS Tester must be online and logged into the Porsche Partner Network (PPN).

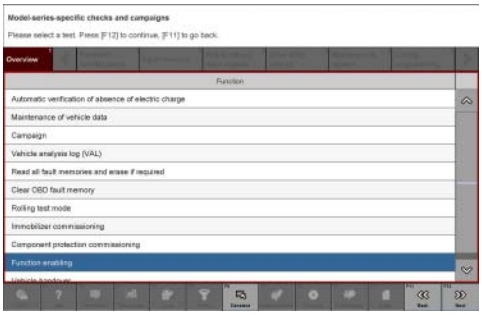
Work Procedure: 1 Press •F7 “ in the control unit selection screen ('Overview' menu) to call up the Additional menu.

2 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.

3 Press •F12 “ ('Next') to acknowledge the message informing you that campaigns for the vehicle are stored in the PIWIS information system.

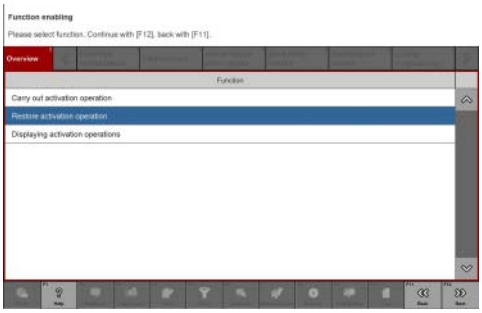
4 Select the "Function enable" function and press •F12 “ ('Next') to confirm your selection ⇒*Enabling functions*.

5 Log the Tester into the PPN if it is not already logged in.



Enabling functions

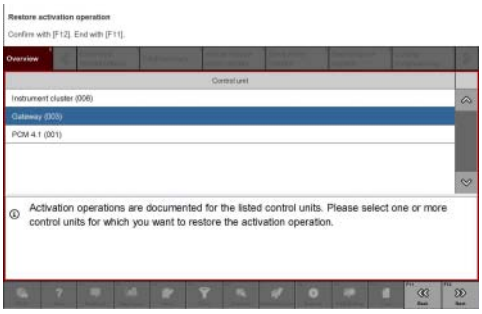
6 Select "Restore enabled functions" and press • F12 " ('Next') to confirm your selection ⇒ *Restoring enabled functions*.



Restoring enabled functions

7 Select the gateway control unit and press • F12 " ('Next') to confirm your selection ⇒ *Enabling functions for gateway*.
The enabled functions are then restored in accordance with the data stored in the PPN.

8 Once the procedure is completed successfully, the message "Restore successful" is displayed.
The two newly enabled driving modes will also be ticked in the "Status" field.
Press • F12 " ('Next') to end the procedure.



Enabling functions for gateway

9 Confirm the message informing you that automatic coding must be performed by pressing • F12 " ('Next').

10 Select the **'Overview'** menu and press • F11 " ('Back') to return to the control unit selection screen.

Re-code Gateway Control Unit

NOTICE

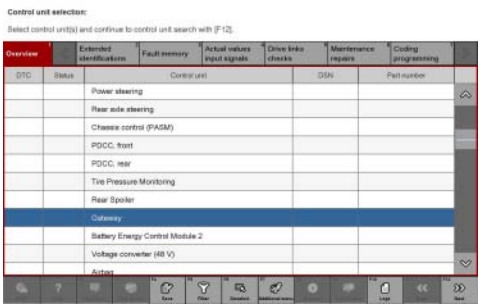
Use of a PIWIS Tester software version that is older than the prescribed version

- **Measure is ineffective**

⇒ **Always use the prescribed version or a higher version of the PIWIS Tester software for control unit coding.**

Work Procedure: 1 Select the **'Gateway'** control unit in the control unit selection screen (**'Overview'** menu) and confirm your selection by pressing •F12 “ ('Next') ⇒*Control unit selection - Gateway*.

2 Once the gateway control unit has been found and is displayed in the overview, select the **'Coding / programming'** menu.

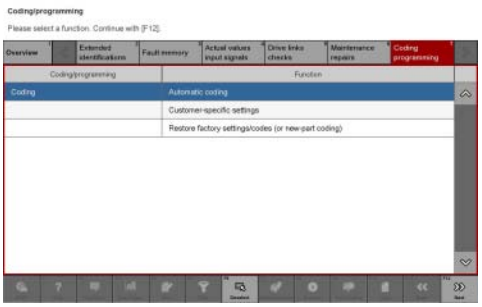


Control unit selection - Gateway

3 Select the **'Automatic coding'** function and press •F12 “ ('Next') to start coding ⇒*Automatic coding*.

4 When coding is complete, the message “Coding has been completed successfully” is displayed and a tick appears in the 'Status' box.

If coding is not completed successfully (error message “Coding was not completed successfully”), coding must be **repeated**.



Automatic coding

5 When coding is completed successfully, continue by pressing •F12 “ (‘Next’) to return to the start page of the **'Codings / adaptations'** menu.

6 Select the **'Overview'** menu and press •F11 “ ('Back') to return to the control unit selection screen.

Concluding Work

Work Procedure: 1 Read out and erase the fault memories of all control units.

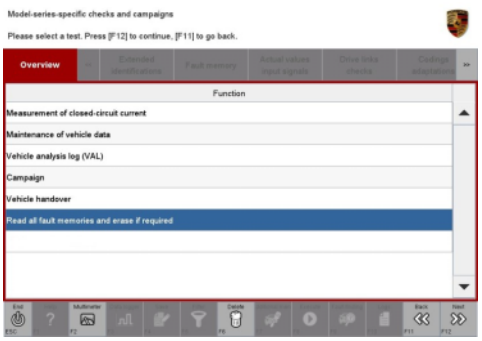
1.1 Press •F7 “ in the control unit selection screen ('Overview' menu) to call up the Additional menu.

1.2 Select the function “Read all fault memories and erase if required” and press •F12 “ ('Next') to confirm your selection ⇒*Erasing fault memories*.

The fault memories of the control units are read out.

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

Information



Erasing fault memories

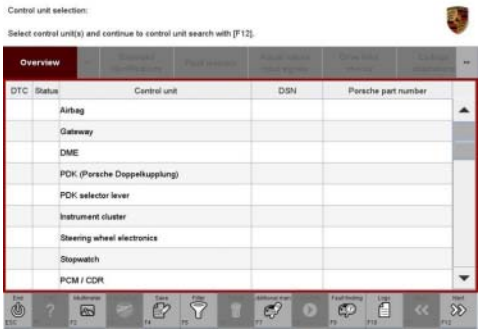
If control units are found to have faults that are **not** caused by control unit programming, these must first be **found** and **corrected**. This work **cannot** be invoiced under the workshop campaign number.

1.4 Press •F8 “ to delete fault memory entries.

1.5 Press •F12 “ ('Yes') in response to the question as to whether you really want to delete all fault memory entries.

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

1.6 Once you have erased the fault memories, select the **'Overview'** menu to return to the control unit selection screen ⇒*Control unit selection*.



Control unit selection

2 Switch off the ignition.

3 Disconnect the PIWIS Tester from the vehicle.

4 Switch off and disconnect the battery charger.

5 Enter the campaign in the Warranty and Maintenance booklet.

Warranty processing

Information

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

Scope:

Working time:

Restoring driving modes and re-coding gateway control unit — Labor time: **30 TU**

Includes: Connecting and disconnecting battery charger
Connecting and disconnecting PIWIS Tester
Reading out and erasing fault memory

⇒ **Damage Code WJ06 066 000 1**