WJ05 - Re-coding Front Camera Control Unit (Workshop 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: **2017**

Model Line: **Panamera (971)**

Equipment: Front camera in conjunction with the following equipment:

- I-no. 6I1 Lane Keep Assist
- I-no. GJ1 Traffic Jam Assist
- I-no. 8G1 Porsche Dynamic Light System Plus (incl. Full beam assist)
- I-no. 8G4 Porsche Dynamic Light System Plus (incl. LED Matrix headlights)
- I-no. 9Q6 Traffic sign recognition
- I-no. 8T3 Adaptive cruise control
- I-no. 3V1 Porsche InnoDrive incl. Adaptive cruise control

Subject: **Front camera control unit**

Information: **There is a possibility that the front camera heater on the affected vehicles will be switched on more often than required at low temperatures due to incorrect coding.**

This can result in material fatigue over the service life of the vehicle and the front camera can stop working. As a result, the "Camera system fault" warning will be displayed in the instrument cluster and camera-based assistance systems, such as lane departure warning, pedestrian warning, traffic sign recognition and Full beam assist will fail.

Remedial Action: Re-code front camera control unit.

Affected Vehicles: Only the vehicles assigned to the campaign (see also PIWIS Vehicle information). This campaign affects 2,195 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 / Power Supply** - Suitable for AGM Type batteries, recommended current rating of 90A fixed voltage 13.5V to 14.5V.

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.**

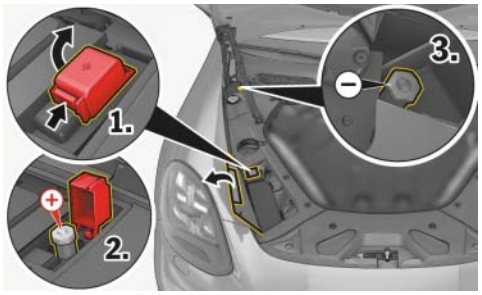
NOTICE

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

- **If the driver's key is not recognised 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 centre console to guarantee a continuous radio link between the vehicle and the driver's key.**

Work Procedure: 1 Connect a battery charger with a current rating of **at least 90 A**.
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.

Re-code front camera 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.**

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:

Control unit selection - Front camera

1 Select the **'Front camera'** control unit in the control unit selection screen (**'Overview'** menu) and confirm your selection by pressing • F12 “ ('Next') .

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

Automatic coding

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

6 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**.

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

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

Concluding work

Work Procedure: 1 Switch off the ignition.

2 Disconnect the PIWIS Tester from the vehicle.

3 Switch off and disconnect the battery charger.

4 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:

Re-coding front camera control unit — Labor time: **22 TU**

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

⇒ **Damage Code WJ05 066 000 1**