WB40 - Re-coding Instrument Cluster (Workshop Campaign)

Vehicle Type:	**Panamera/Panamera 4** **Panamera S/Panamera 4S/Panamera S Hybrid** **Panamera Turbo/Panamera Turbo S**
Model Year:	**As of 2010 up to 2013**
Concerns:	**Coding values for the instrument cluster**
Information:	This is to inform you of a voluntary Workshop Campaign on certain 2010 to 2013 Panamera/4/S/4S/S Hybrid and Panamera Turbo/S vehicles. **A new parameter set for the instrument cluster is available for the affected vehicles.** Internal communication between various control units and the instrument cluster has been optimized with this parameter set.
Action Required:	Re-code the instrument cluster using PIWIS Tester II with software version **9.900** (or higher) installed.

i **Information**

When the instrument cluster is re-coded, the **individual settings** implemented in the instrument cluster by the customer will be **lost** and are reset to the **default values** of the **country version** that applies to the vehicle.

After carrying out the campaign, therefore, please **inform** your customers that personal settings they have implemented in the instrument cluster will have to be **set again** and provide them with any **help and support** they need for setting the relevant options.

This affects the following settings in the Vehicle menu, for example:

- Lowering of door mirror on passenger's side during parking manoeuvres

- Locking settings

- Light & Visibility settings

- Units (kilometres/miles, Celsius/Fahrenheit, …)

- Language

i **Information**

The instrument cluster must be re-coded using the PIWIS Tester software version 9.900 (or higher) because the new coding values for the instrument cluster are only available on the PIWIS Tester with this test software version or later versions.

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.
Tools:	PIWIS Tester II 9818 with software version **9.900** (or higher) installed. Battery charger (current rating of **at least 40 A**)
Work Procedure:	See Attachment "A".
Administrative Procedure:	See Attachment "B".
Attachment "A":	**Work Procedure** **Create Vehicle Analysis Log (VAL) and re-code the instrument cluster.**

NOTICE

Coding will be aborted in the event of low voltage.

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

⇒ **Before commencing work, connect a suitable battery charger with a current rating of at least 40 A to the jump-start terminals in the engine compartment.**

NOTICE

Coding 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, coding may be aborted.**

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

Information

The procedure described here is based on the PIWIS Tester II software version **9.900**.

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.

1   The following **preconditions** must be met before starting coding:

1.1 Connect a battery charger with a current rating of **at least 40 A** to the jump-start terminals in the engine compartment.

1.2 Switch on ignition using the **original vehicle key**. For vehicles with "Porsche Entry & Drive", do this by replacing the control panel in the ignition lock with the original vehicle key if necessary.

1.3 PIWIS Tester II 9818 with test software version **9.900** (or higher) installed 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.

1.4 On the PIWIS Tester start screen, call up the ⇒ **'Diagnostics'** menu and select vehicle type ⇒ **'Panamera'**.

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

2 **Create Vehicle Analysis Log (VAL) and check the front-end electronics control unit for fault entries.**

2.1 Create Vehicle Analysis Log (VAL) using PIWIS Tester II.

2.2 Once you have created the Vehicle Analysis Log (VAL), display the list of vehicle analysis logs in the control unit selection screen (⇒ **'Overview'** menu) by pressing ⎡F10⎤ .

2.3 Select the vehicle analysis log you have just created from the list using the saved chassis number and press ⎡F10⎤ to generate the print preview.

2.4 Call up the ⇒ **'Front-end electronics'** control unit in the Vehicle Analysis Log and check the front-end electronics control unit for fault entries with the **following fault codes**:

DTC860602	DTC86060B
DTC860702	DTC86070B
DTC860802	DTC86080B
DTC860902	DTC86090B
DTC860A02	DTC860A0B
DTC860B02	DTC860B0B

2.5 **If one or more** of the fault codes listed above for the front-end electronics control unit are listed in the Vehicle Analysis Log (VAL), ⇒ **replace the ignition starter switch** ⇒ *Workshop Manual '280419 Removing and installing ignition starter switch'*.

Replacement of the ignition starter switch must be processed using a **separate warranty claim** and **cannot** be invoiced under the workshop campaign number.

Then continue with Step 3 and code the instrument cluster.

ℹ️ **Information**

If, after replacing the ignition starter switch and then erasing the fault memory, one of the fault codes listed above is still in the fault memory of the front-end electronics control unit, check the wire harness for the ignition starter switch to the front-end electronics control unit for short circuit and open circuit.

If none of the fault codes listed above are stored in the front-end electronics control unit, ⇒ continue with **Step 3** and **code the instrument cluster**.

ℹ️ **Information**

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

3 **Code the instrument cluster.**

Control unit selection

3.1 Select ⇒ **'Instrument cluster'** in the control unit selection screen (⇒ **'Overview'** menu) and confirm your selection by pressing `>>` . .

Control unit selection - Instrument cluster

3.2 Once the instrument cluster has been found and is displayed in the list, select the ⇒ **'Codings/adaptations'** menu .

Automatic coding

3.3 Select the ⇒ **'Automatic coding'** function and press `>>` to start coding .

Coding successful

3.4 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**.

3.5 Once coding has been completed successfully, press `>>` and return to the start page of the ⇒ **'Codings/adaptations'** menu.

3.6 Select the ⇒ **'Overview'** menu and press `<<` to return to the control unit selection screen.

4 **Read out the fault memory and erase it.**

4.1 In the control unit selection screen (⇒ **'Overview'** menu), press `F7` to call up the Additional menu.

4.2 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.

4.3   Once you have read out the fault memories, delete the fault memory entries by pressing `F8`.

4.4   Press `F12` ("Yes") in response to the question as to whether you really want to delete all fault memory entries.

Erasing fault memories

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

ⓘ Information

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

4.6   Once you have erased the fault memories, select the ⇒ **'Overview'** menu and press `<<` to return to the control unit selection screen ⇒ *Control unit selection*.

5   **Subsequent work.**

5.1   Switch off ignition.

5.2   Disconnect the PIWIS Tester from the vehicle.

5.3   For vehicles with Porsche "Entry & Drive", 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.

Control unit selection

5.4   Switch off and disconnect the battery charger.

ⓘ Information

The values for the Tire Pressure Monitoring (TPM) system may be lost after coding the instrument cluster.

If the Tire Pressure Monitoring (TPM) system is reset, you must select **Main menu**> **Tire pressure**> **Settings** in the instrument cluster to reset the **tire type** and **tire size**. The wheel position values will then be re-taught in the control unit during the **test drive** (at a speed of over **15 mph/25 km/h**).

To set the tire type and tire size, see ⇒ Owner's Manual, chapter Instrument Panel and Multi-Function Display - 'Tire Pressure Monitoring, TPM'.

6   Enter the workshop campaign in the Warranty and Maintenance booklet.
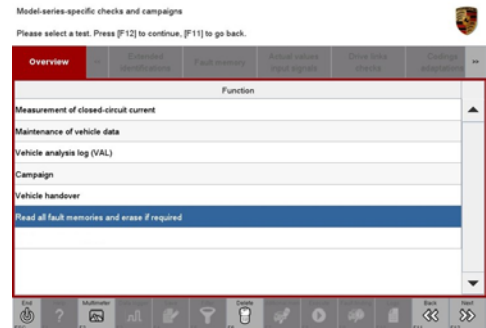
Attachment "B":   **Administrative Procedure** - Workshop Campaign WB40
Warranty claims should be submitted via WWS/PQIS.
Note: Open campaigns can be checked by using the PIWIS Vehicle Information link.
Labor, parts, and sublet will be automatically inserted when Technician is selected in WWS/PQIS.

Creating Vehicle Analysis Log (VAL) and re-coding the instrument cluster

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Working time:

Re-coding instrument cluster   Labor time: **30 TU**
Includes:

       Connecting and disconnecting battery charger
       Connecting and disconnecting PIWIS Tester
       Creating Vehicle Analysis Log

Invoicing: ⇒ Damage Code WB40 066 000 1

References: ⇒ *Workshop Manual '280419 Removing and installing ignition starter switch'*

Dealership	Service Manager	_____	Shop Foreman	_____	Service Technician	_____	_____	_____	_____
Distribution Routing	Asst. Manager	_____	Warranty Admin.	_____	Service Technician	_____	_____	_____	_____