

WG28 - Re-programming Front Axle Lift System Control Unit (Workshop Campaign)

Revision: **Revision 1 — August 11, 2016**
 This revision amends WG28 as follows:
 Under "Re-programming Front Axle Lift System Control Unit" Work Procedure Step 1, line 5 of table was changed to:
Software version programmed during this campaign: 0930
Following control unit programming, the software version can be read out of the front axle lift system control unit in the ⇒ 'Extended identification' menu using the PIWIS Tester.

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. Please refer to Equipment Information EQ1401 for a list of suitable battery chargers/power supplies which should be used to maintain vehicle voltage.

Model Line: **911 (991)**

Equipment: Front axle lift function (I-no. 474)

Subject: **Front axle lift system control unit**

Information: **The error message "Error lift system - service necessary" can appear sporadically in the instrument cluster on the affected vehicles because the front axle lift system diagnostic function is too sensitive.**
 The front axle lift system is then not available until such a time as the ignition is switched off and on again.

Remedial Action: Re-program front axle lift system control unit using the PIWIS Tester with software version **33.600.010** (PIWIS Tester 3) or version **17.600.010** (PIWIS Tester II) or a higher software version installed.

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.**

**Information**

The total time required for programming and coding the control unit is **approx. 4 minutes**.

Affected Vehicles: Only the vehicles assigned to the campaign (see also PIWIS Vehicle information). This campaign affects 596 vehicles in North America.

Required Tools

- 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.
 - **9900 - PIWIS Tester 3** with PIWIS Tester software version **33.600.010** (or higher) installed
- or
- **9818 - PIWIS Tester II** with PIWIS Tester software version **17.600.010** (or higher) installed.

Preparatory 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 and the vehicle communication module (VCI). As a result, control unit programming may be aborted.
- ⇒ During control unit programming, always connect PIWIS Tester 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.

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"*.

Re-programming Front Axle Lift System Control Unit



Information

The procedure described here is based on the PIWIS Tester II software version **17.600.010**.

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 **Re-program front axle lift system 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"*.

Use the "Campaign" function in the Additional menu on the PIWIS Tester by entering the specific programming code, found in the chart below.

For specific information on control unit programming during this campaign, see table below.

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.**

| | |
|---|---|
| Required PIWIS Tester software version: | <ul style="list-style-type: none"> • PIWIS Tester 3: 33.600.010 (or higher) • PIWIS Tester II: 17.600.010 (or higher) |
| Programming code: | N2M8V |
| Programming sequence: | <p>Read and follow the information and instructions on the PIWIS Tester during the guided programming sequence.</p> <p>During the programming sequence, the front axle lift system control unit is re-programmed and then re-coded automatically.</p> <p>Do not interrupt programming and coding.</p> |
| Programming time (approx): | 4 minutes |

| | |
|---|--|
| Software version programmed during this campaign: | 0930 Following control unit programming, the software version can be read out of the front axle lift system control unit in the ⇒ 'Extended identification' menu using the PIWIS Tester. |
| 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'.</i> |
| Procedure in the event of abnormal termination of control unit programming: | Repeat control unit programming by entering the programming code again. |

Reading Out and Erasing Fault Memory

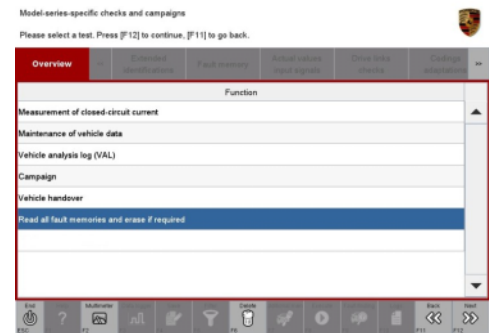
Work Procedure: 1 In the control unit selection screen (⇒ 'Overview' menu), press •F7" to call up the Additional menu.

- 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.

- 3 Once you have read out the fault memories, erase the fault memory entries by pressing •F8" .

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



Erasing fault memories

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



Information

If the fault memories of individual control units cannot be erased, proceed as follows:

- Switch off the ignition.
- Disconnect the PIWIS Tester diagnostic connector from the diagnostic socket.
- Lock the vehicle using the driver's key.
- Wait approx. 1 minute before unlocking the vehicle again.
- Start the engine, leave it running for a short time and then stop it again.
- Switch off the ignition and wait approx. 10 seconds before switching it back on again.
- Plug the PIWIS Tester diagnostic connector into the diagnostic socket again and restore communication with the vehicle.
- Read out the fault memory again and delete any fault memory entries that are stored.

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

- 5 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

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 On vehicles with Porsche Entry & Drive, replace the original vehicle key in the ignition lock with the control panel again.

Warranty Processing



Information

The specified working time was determined specifically for carrying out this campaign and includes all required preliminary and subsequent work.

The working time may differ from the working times published in the Labor Operation List in PIWIS.

Scope:

| | |
|---|---------------------------------|
| <p>Working time:</p> <p>Re-programming front axle lift system control unit</p> <p>Includes: Connecting and disconnecting battery charger Connecting and disconnecting PIWIS Tester</p> | <p>Labor time: 20 TU</p> |
|---|---------------------------------|

Reading out and erasing fault memory

⇒ Damage Code WG28 066 000 1

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