APA0 - Re-Programming DME and Transmission Control Units (Recall 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: **2016**

Model Line: **911 GT3 RS (991)**

Concerns: **DME control unit**

Information: **During internal tests, Porsche has discovered that exhaust emissions can be increased under certain driving conditions in Sport+ mode on the 991 GT3 RS model.**

Action required: Re-program the DME and transmission control units using the PIWIS Tester with software version **41.900.020** (or higher) installed.

Information
During programming, the DME control unit and the PDK control unit are **automatically** programmed and then coded.
It takes **approx. 15 minutes** in total to **program and code** both control units.

Affected Vehicles: Only vehicles assigned to the campaign (see also PCSS Vehicle Information).

Required tools

Tool:
- **9900 - PIWIS Tester 3 / 4** with PIWIS Tester software version **41.900.0200** (or higher) installed
- Battery charger with a current rating of **at least 90A**, e.g. **VAS 5908 battery charger 90A**

Re-programming DME control unit

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'*.

2 Re-program DME control unit.

The basic procedure for control unit programming is described in the Workshop Manual ⇒ *Workshop Manual '9X00IN Basic instructions and procedure for control unit programming using the PIWIS Tester'*.

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

Required PIWIS Tester software version:	**41.900.020** (or higher)
Type of control unit programming:	Control unit programming using the **'Automatic programming'** function of the DME control unit: **'DME'** control unit – **'Coding / programming'** menu – **'Automatic programming'** function.
Programming sequence:	Read and follow the **information and instructions on the PIWIS Tester** during the guided programming sequence. During the programming sequence, the **DME control unit** is **re-programmed** first, depending on the model year the instrument cluster and then the **PDK control unit** is re-programmed. Both control units are then **automatically** re-**coded**. **Do not interrupt programming and coding.** Once the control units have been programmed and coded, you will be prompted to switch the ignition off and then back on again after a certain waiting time. Backup documentation of the new software versions is then performed.
The programming sequence takes (approx.):	**15 minutes**
Software version programmed as part of this campaign:	See ⇒ *Technical Information '9X00IN Warranty processing'* section

Procedure in the event of a **termination** of control unit programming:	• Switch ignition off and then on again. • Read out and delete the fault memories ⇒ *Workshop Manual '9X00IN Basic instructions and procedure for control unit programming using the PIWIS Tester - "Rework" section'*. • Repeat control unit programming by restarting programming.
Procedure in the event of **other error messages** appearing during the programming sequence:	⇒ *Workshop Manual '9X00IN Basic instructions and procedure for control unit programming using the PIWIS Tester - section on "Fault finding"'*

3 Select the **DME** control unit in the **Overview**.

4 Select **Maintenance / repairs**. Press •F12 " to continue.

5 Select **Throttle valve adaptation**. Press •F12 " to continue.

6 Function selected. Press •F12 " to continue.

7 Adapt function. Press •F8 " to start.

Perform adaptation according to menu guidance. End adaptation with •F8 " .

8 Read out all **fault memories**, process and delete existing faults if necessary.

Information

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.

9 Exit the diagnostic application.

10 Switch off ignition.

11 Disconnect the Tester from the vehicle.

12 Switch off and disconnect the battery charger.

13 Enter the campaign in the Warranty and Maintenance booklet.

For warranty processing, see the Section ⇒ *Technical Information '9X00IN Warranty processing'*

Software overview

911 (991):

Type	Model year	Software part number	Software version
911 (GT3 RS)	2016	**DME** **99161866204** **Transmission** **99161839405**	**DME** **3143** **Transmission** **Q061**

Warranty processing

Scope: **Re-programming DME control unit**

Labor time:

Re-programming DME control unit — Labor time: **71 TU**

Includes: Connecting and disconnecting battery charger
Connecting and disconnecting PIWIS Tester
Re-programming PDK control unit
Perform throttle valve adaptation
Reading out and deleting fault memories

⇒ **Damage Code APA0 099 000 1**