PORSCHE®

Technical Information

WNA1 - Re-Programming of the DME 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:	**2019**
Vehicle Type:	**911 Speedster (991)** **911 GT3RS (991)**
Concerns:	**DME control unit**
Information:	**Internal function tests have shown that the functionality of the oxygen sensor will not be consistently met over time, particularly at higher mileages or due to high thermal loads during racetrack use.** Under certain conditions, this can cause an error message "Engine control fault" to be displayed in the instrument cluster and the Check Engine light will be activated. Compliance with the emission limits is ensured at all times.
Action required:	Re-program the DME control unit using the PIWIS Tester with software version **40.775.060** (or higher) installed.
Affected Vehicles:	Only the vehicles assigned to the campaign (see also PIWIS Vehicle information).

Required tools

Tool:	• **9900 - PIWIS Tester 3** with PIWIS Tester software version **40.775.060** (or higher) installed • Battery charger with a current rating of **at least 90 A**, e.g. **VAS 5908 battery charger 90A**

Re-Programming of the DME Control Unit - Scope 1

Work procedure: 1 Re-program DME control unit.

The basic procedure for control unit programming is described in the Workshop Manual ⇒ *Workshop Manual '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:	**40.775.060** (or higher)
Type of control unit programming:	Control unit programming using the **'Automatic programming'** function for 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, then the **PDK control unit** is reprogrammed. Both control units are then **recodedautomatically**. **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.):	**13 minutes**
Software version programmed during this campaign:	See ⇒ *Technical Information 'Software overview'* section.
Procedure in the event of abnormal **termination** of control unit programming:	• Switch ignition off and then on again. • Read out and erase the fault memory ⇒ *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"'.*

2   Select the **DME** control unit in the **overview.**

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

4 **Adaptations** must be selected. Press •F12" to continue.

5 Perform throttle valve adaptation. Press •F12" to continue.

6 Adapt function. Press •F8" to start.

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

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

8 Exit the diagnostic application. Switch off ignition. Disconnect the Tester from the vehicle.

9 Switch off and disconnect the battery charger.

10 Enter the campaign in the Warranty and Maintenance booklet.
   – End of action –

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

Re-Programming the DME Control Unit - Scope 2

Work procedure: 1 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:	**40.775.060** (or higher)
Type of control unit programming:	Control unit programming using the **'Automatic programming'** function for 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. The **DME control unit** is **reprogrammed** during the programming sequence.
	The DME control unit is then **recodedautomatically**.
	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.):	**10 minutes**
Software version programmed during this campaign:	See ⇒ *Technical Information '9X00IN Software overview'* section.
Procedure in the event of abnormal **termination** of control unit programming:	• Switch ignition off and then on again. • Read out and erase the fault memory ⇒ *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"'*.

2 Select the **DME** control unit in the **overview.**

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

4 **Adaptations** must be selected. Press •F12" to continue.

5 Perform throttle valve adaptation. Press •F12" to continue.

6 Adapt function. Press •F8" to start.

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

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

8   Exit the diagnostic application. Switch off ignition. Disconnect the Tester from the vehicle.

9   Switch off and disconnect the battery charger.

10   Enter the campaign in the Warranty and Maintenance booklet.
       – End of action –

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

DME Software Overview

911 (991):

Type	Model year	I-no.	Software part number	Software version
911 Speedster	2019	4BF	**9P1906033Q**	**0001**
911 Speedster	2019	161	**9P1906033R**	**0001**
911 Speedster	2019	160	**9P1906033S**	**0001**
911 Speedster	2019	162	**9P1906033T**	**0001**
911 GT3 RS	2019	4BF	**9P1906033P**	**0001**

Warranty processing

Scope 1:   **Re-Programming DME control unit**

•   Only valid for vehicles with **PDK (M-NO.: 250)**

Working time:	
Re-Programming DME control unit	Labor time: **57 TU**

Includes: Connecting and disconnecting battery charger
              Connecting and disconnecting PIWIS Tester
              Performing adaptations
              Reading out and erasing fault memories	

⇒ **Damage code WNA1 066 000 1**	

Scope 2: **Re-Programming DME control unit**

- Valid for vehicles with **manual transmission (M-NO.: 486)**

Working time:

Re-Programming DME control unit   Labor time: **45 TU**
Includes: Connecting and disconnecting battery charger
              Connecting and disconnecting PIWIS Tester
              Performing adaptations
              Reading out and erasing fault memories

⇒ **Damage code WNA1 066 000 1**