

WNM9 - Re-Programming 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 mileage/km or due to high thermal loads during race track 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 test software version **41.200.040** (or higher) installed.

Affected Vehicles: Only the vehicles assigned to the campaign (see also PIWIS Vehicle information).

Required tools

- Tools:**
- **P90999 - PIWIS Tester 4**
 - Battery charger with a current rating of **at least 90 A**, e.g. **VAS 5908 – battery charger 90A**

Reprogramming 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:	41.200.040 (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, or transmission, as the case may be , is reprogrammed. 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.):	13 minutes
Software version programmed during this campaign:	See ⇒ <i>Technical Information 'DME Software Overview'</i> 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 ⇒ <i>Workshop Manual '9X00IN Basic instructions and procedure for control unit programming using the PIWIS Tester - "Rework" section'</i>. ▪ Repeat control unit programming by restarting programming.
Procedure in the event of other error messages appearing during the programming sequence:	⇒ <i>Workshop Manual '9X00IN Basic instructions and procedure for control unit programming using the PIWIS Tester - section on "Fault finding"</i> .

- 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 Attach **Recall Proof of Completion label** to the front lid (**California Porsche Centers only**).

Instructions for attaching labels

- Surfaces on which you intend to attach the label must be clean, dry and free from grease and oil residues.
- Before attaching the label, clean the surfaces using a suitable cleaning agent and a clean, grease-free and lint-free cloth.
- This label must not be affixed over existing label.
- Attach label only at the specified positions.

- 10.1 Fill out the Recall Proof of Completion label
 ⇒ *Recall Proof of Completion Label* fully and correctly. This includes the recall code "**WNM9**", your Porsche Center code and the repair date.
- 10.2 Clean the surface in the lower area on the front lid at the left-hand side in direction of travel at which the Recall Proof of Completion label must be attached ⇒ *Proof of Completion Label: specified position (Exemplary illustration) -arrow-* using a suitable cleaning agent and a clean, grease-free and lint-free cloth.

Recall Proof of Completion Label

- 10.3 Affix Recall Proof of Completion label in the lower area of the front lid at the lefthand side in direction of travel ⇒ *Proof of Completion Label: specified position (Exemplary illustration) -arrow-*.
- 10.4 Close front lid.
- 11 Enter the campaign in the Warranty and Maintenance booklet.
– End of action –

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



Proof of Completion Label: specified position (Exemplary illustration)

Reprogramming 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:	41.200.040 (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 recoded automatically . 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 ⇒ <i>Technical Information '9X00IN DME Software Overview'</i> 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 ⇒ <i>Workshop Manual '9X00IN Basic instructions and procedure for control unit programming using the PIWIS Tester - "Rework" section'</i>. ▪ Repeat control unit programming by restarting programming.
Procedure in the event of other error messages appearing during the programming sequence:	⇒ <i>Workshop Manual '9X00IN Basic instructions and procedure for control unit programming using the PIWIS Tester - section on "Fault finding"</i> .

- 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 Attach **Recall Proof of Completion label** to the front lid (**California Porsche Centers only**).
Instructions for attaching labels
 - Surfaces on which you intend to attach the label must be clean, dry and free from grease and oil residues.
 - Before attaching the label, clean the surfaces using a suitable cleaning agent and a clean, grease-free and lint-free cloth.
 - This label must not be affixed over existing label.
 - Attach label only at the specified positions.

- 10.1 Fill out the Recall Proof of Completion label
⇒ *Recall Proof of Completion Label* fully and correctly. This includes the recall code "WNM9", your Porsche Center code and the repair date.
- 10.2 Clean the surface in the lower area on the front lid at the left-hand side in direction of travel at which the Recall Proof of Completion label must be attached ⇒ *Proof of Completion Label: specified position (Exemplary illustration) -arrow-* using a suitable cleaning agent and a clean, grease-free and lint-free cloth.
- 10.3 Affix Recall Proof of Completion label in the lower area of the front lid at the lefthand side in direction of travel ⇒ *Proof of Completion Label: specified position (Exemplary illustration) -arrow-*.
- 10.4 Close front lid.
- 11 Enter the campaign in the Warranty and Maintenance booklet.
– **End of action** –
- For warranty processing, see the Section ⇒ *Technical Information '9X00IN Warranty processing'*.

Recall Proof of Completion Label



Proof of Completion Label: specified position (Exemplary illustration)

DME Software Overview

911 (991):

Type	Model year	I-no.	Software part number	Software version
911 Speedster	2019	4BF	9P1906033AB	0002
911 Speedster	2019	161	9P1906033AC	0002
911 Speedster	2019	160	9P1906033AD	0002
911 Speedster	2019	162	9P1906033AE	0002
911 GT3 RS	2019	4BF	9P1906033AA	0002

Warranty processing

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

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

Labor time: Re-programming DME control unit Includes: Connecting and disconnecting battery charger Connect and disconnect PIWIS Tester Performing adaptations Select and erasing fault memories Attach Recall Proof of Completion label and provide signed proof of correction to customer (California Porsche Centers only)			Labor time: 57 TU
PNA EMI 000 00	Label – Recall Proof of Completion	1 ea.	
PNA 999 100 235	Certificate - Recall Proof of Correction	1 ea.	
* California Porsche Centers only: - For warranty processing, enter the Part No. PNA EMI 000 00 with the designation "label" as a local part at US\$ 0.34 in the warranty claim. - For warranty processing, enter the Part No. PNA 999 100 235 with the designation "certificate" as a local part at US \$0.01 in the warranty claim.			
⇒ Damage code WNM9 066 000 1			

Scope 2:

Re-programming DME control unit

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

Labor time: Re-programming DME control unit Includes: Connecting and disconnecting battery charger Connect and disconnect PIWIS Tester Performing adaptations Select and erasing fault memories Attach Recall Proof of Completion label and provide signed proof of correction to customer (California Porsche Centers only)			Labor time: 45 TU
PNA EMI 000 00	Label – Recall Proof of Completion	1 ea.	
PNA 999 100 235	Certificate – Recall Proof of Correction	1 ea.	
* California Porsche Centers only: - For warranty processing, enter the Part No. PNA EMI 000 00 with the designation "label" as a local part at US\$ 0.34 in the warranty claim. - For warranty processing, enter the Part No. PNA 999 100 235 with the designation "certificate" as a local part at US \$0.01 in the warranty claim.			
⇒ Damage code WNM9 066 000 1			

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