

Symptom in Vehicle Interior - Air-conditioning System Does Not Function: Re-programming air-conditioning control unit (SY 27/15)

General information

Model Line: **Macan**

Model Year: **As of 2015**

Symptom: No cooling performance from the air-conditioning system.

Cause: The evaporator for the air-conditioning system can freeze at high outside temperatures and high humidity.

Remedial Action: Re-program control unit for air-conditioning system using a modified parameter set.



Information

Before doing any other work, the **software version** must be **read out of the air-conditioning control unit** using the PIWIS Tester.

⇒ If the **software version is higher than "1040"**, the **remedial action** described below **must not be carried out**.

⇒ The software in the air-conditioning control unit is already the latest version in this case. Programming the air-conditioning control unit using the programming code will not resolve the problem.

Tools: Battery Charger/Power Supply - Suitable for AGM Type batteries, recommended current rating of 70A fixed voltage 13.5V to 14.5V.

9900 - PIWIS Tester III

Re-programming air-conditioning control unit

Preliminary 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 suitable 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 WLAN connection is unstable.

- An unstable WLAN connection can interrupt communication between PIWIS Tester III and the vehicle communication module (VCI). As a result, control unit programming may be aborted.
- ⇒ During control unit programming, always connect PIWIS Tester II to the vehicle communication module (VCI) via the USB cable.

NOTICE

Control unit programming will be aborted if the driver's key is not recognized

- If the driver's key is not recognised in vehicles with Porsche Entry & Drive, programming cannot be started or will be interrupted.
- ⇒ Switch on the ignition using the original driver's key. To do this, replace the control unit in the ignition lock with the original driver's key if necessary.

- 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"*.

**Information**

Before doing any other work, the **software version** must be **read out of the air-conditioning control unit** using the PIWIS Tester.

⇒ If the **software version is higher than "1040"**, the **remedial action** described below **must not be carried out**.

⇒ The software in the air-conditioning control unit is already the latest version in this case. Programming the air-conditioning control unit using the programming code will not resolve the problem.

Re-program control unit for air-conditioning system.

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"*.

Specific information on control unit programming during this repair measure:

Reading out the software version :	'Air-conditioning' control unit ⇒ 'Extended identifications' menu ⇒ Software version: • The measure described below must only be carried out if the software version is lower than 1040 .
Required PIWIS Tester III software version:	33.800.020 (or higher)
Type of control unit programming:	Control unit programming using the "Campaign" function in the Additional menu on the PIWIS Tester by entering a programming code.
Programming code:	R4K5P
Programming sequence:	Read and follow the information and instructions on the PIWIS Tester during the guided programming sequence. The control unit for the air-conditioning system is re-programmed first during the programming sequence. Once programming is complete, the control unit is re-coded automatically . Do not interrupt programming and coding.
Time required for programming and coding:	approx. 4 minutes
Software version programmed during this repair measure:	1040 Following control unit programming, the software version can be read out of the air-conditioning 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 - section on "Fault finding"</i> .
Procedure in the event of abnormal termination of control unit programming:	Repeat control unit programming by entering the programming code again.

Subsequent work2 Carry out general subsequent work for control unit programming as described in the Workshop Manual ⇒ *Workshop Manual '9X00IN Basic instructions and procedure for control unit programming using the PIWIS Tester - section on "Subsequent work"*.

Invoicing: The work involved is invoiced under the labor operation:

APOS	Labor operation	I No.
87022580	Programming air conditioning control	

For invoicing and documentation using PQIS, enter the following coding:

Location (FES5)	87020	Air conditioning control
Damage type (SA4)	9830	Cannot establish cause, software re-installed

References: ⇒ *Workshop Manual '9X00IN Basic instructions and procedure for control unit programming using the PIWIS Tester - section on "Preliminary work"*

 ⇒ *Workshop Manual '9X00IN Basic instructions and procedure for control unit programming using the PIWIS Tester - section on "Subsequent work"*

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