WPS9 – Re-Programming Thermal Management (TME) Control Unit (Workshop Campaign)

Revision: This bulletin replaces bulletin Group 1 208/23 WPS9, dated February 8, 2024.

Model Year: **As of 2020 up to 2025**

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 Line: **Taycan (Y1A / Y1B / Y1C)**

Concerns: **Thermal management control unit (TME)**

Cause: **Optimized software is available for the thermal management (TME) control unit to increase the robustness of the electric passenger compartment heater.**

Actions:
- Re-program the thermal management (TME) control unit and HV heater with the **latest** PIWIS Tester software release.
- Minimum requirement: Release **42.500.000**

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

Required tools

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

Re-programming thermal management control unit (TME)

1 The prerequisites for control unit programming are described in the Workshop Manual ⇒*Workshop Manual 'Basic Instructions and Procedure for Control Unit Programming Using the PIWIS Tester'*.

2 After the backup documentation process, the integration test is started automatically. The result must first be **ignored**.

Information

Please note that the electric passenger compartment heater is also programmed as part of the thermal management programming process. For programming the electric passenger compartment heater, it is necessary to first deactivate the high-voltage system (see =>Workshop Manual '2X00IN Deactivating/ commissioning high-voltage system'). This information can also be found in the PIWIS Tester as required preliminary work before the programming process.

3 **Re-program thermal management control unit (TME) and HV heater.**

Required PIWIS Tester software release:	**42.500.000** (or higher)
Type of control unit programming:	Control unit programming using the **"Automatic programming" function** of the thermal management (TME) control unit.
Programming sequence:	Read and follow the **information and instructions on the PIWIS Tester** during the guided programming sequence. **Do not interrupt programming and coding.** A backup documentation process for the re-programmed software releases starts as soon as programming and coding is complete.
Programming time (up to):	**20 minutes**
Procedure in the event of error messages appearing during the programming sequence:	⇒ *Workshop Manual '9X00IN Basic instructions and procedure for control unit programming using the PIWIS Tester'*
Procedure in the event of a termination in the control unit programming:	Repeat control unit programming by restarting programming. Additional instructions for aborted programming ⇒ *Technical Information '9X00IN Additional instructions if programming is aborted'*

Control Unit	Model year	Hardware Version	Latest Software Version*
Thermal management (TME)	2020-2024	H08, H09, H10	0325
Electric A/C compressor	2020	H03	0114
Electric A/C compressor	2020-2021	H04, H05	0117
Electric A/C compressor	2022-2024	H05	0117
Electric interior heater (HV-PTC)	2020-2021	H10	0015
Electric interior heater (HV-PTC)	2020-2024	H11	0017

*Latest Software versions as of Tester version 42.500.000

4 Read out all **fault memories**. If necessary, work through existing faults and delete them.

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.

5 Press •F3 “ to start the integration test in the control unit selection.
All affected control units should now be successfully re-programmed or checked in the control unit overview and their status.

Information

If a deviation in the integration test is still indicated despite programming being carried out, this must be repeated. If the deviation persists, contact Technical Support.

6 Enter the campaign in the Warranty and Maintenance logbook.

Warranty processing

Scope 1: Re-programming thermal management control unit (TME)

Labor time:

Re-programming thermal management control unit (TME) Labor time: **117 TU**

Includes: Connecting and disconnecting battery charger
Connecting and disconnecting PIWIS Tester
Deactivating and commissioning high-voltage system
Reading out and deleting fault memories

⇒ **Damage number WPS9 066 000 1**