Ambient Lighting Adjustment for Cup Holder / Center Console Not Possible Via Front Display and Control Panel: Check and Update Software Release of Front-End Electronics (BCM1) Control Unit if Necessary (51/25)

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

Model Year: **As of 2020 up to 2021**

Equipment: Interior lighting, basic + ambient lighting **(M-no. QQ1)**

Concerns: **Central computer**

Cause: **The customer complains that the ambient lighting for the cup holder and the center console cannot be adjusted via the respective menu item in the front display and control panel.**
The ambient lighting for the cup holder can be incorrectly set via the menu item "Roof console" and the ambient lighting for the center console via the menu item "cup holder".

Cause: The coding of the front-end electronics (BCM1) control unit refers to the incorrect menu items in the front display and control panel and causes this fault pattern.

Action: If a customer complaint exists, check the software release of the front-end electronics (BCM1) control unit and re-program or re-code the front-end electronics (BCM1) control unit using the PIWIS Tester, depending on the software release.

Information
The minimum programming / coding requirement is the PIWIS Tester software release **43.400.040** (or higher)

Information
After coding has been completed, the ambient lighting can be adjusted using the appropriate menu items "Cup holder" and "Center console" in the front display and control panel.

Required tools

Tools:

- **P90999 - PIWIS Tester 4**
- Battery charger with a current rating of **at least 90 A** and a **current and voltage-controlled charge map** for lithium starter batteries, e.g. **VAS 5908 - battery charger 90 A**. For further information about the battery chargers to be used, see the corresponding Workshop Manual. ⇒ *Workshop Manual '270689 Charge battery and vehicle electrical system'*

Checking software release of front-end electronics (BCM1) control unit

Work Procedure: 1 Perform general preliminary work for control unit programming accordingly.
⇒ *Workshop Manual '9X00IN Basic instructions and procedure for control unit programming - section on "Preliminary work"'*

2 Check software release of front-end electronics (BCM1) control unit.

2.1 In the **'Overview'** control unit selection, select the **'Front-end electronics (BCM1)'** control unit and press F12 ('Next') to confirm.

2.2 Select the **'Extended identifications'** tab and check the software release.

Assessment	Action
The software release is **lower than "0712"**.	**Re-program** front-end electronics (BCM1) control unit. As part of the programming sequence, the necessary coding takes place **automatically**. Continue with: ⇒ *Technical Information '9X00IN Re-program front-end electronics (BCM1) control unit'*
The software release is **"0712"** (or higher).	**Re-code** front-end electronics (BCM1) control unit. Continue with: ⇒ *Technical Information '9X00IN Re-coding front-end electronics (BCM1) control unit'*

Re-program front-end electronics (BCM1) control unit

Work Procedure: 1 Re-program front-end electronics (BCM1) 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'*

Specific information on control unit programming in the context of this Technical Information:

Required PIWIS Tester software release:	**43.400.040** (or higher)
Type of control unit programming:	Control unit programming using the **'Automatic programming'** function of the control unit: **'Front-end electronics (BCM1)'** 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 control unit is **re-programmed** and then **automatically** re-**coded**. **Do not interrupt the programming and coding process.** Backup documentation for the re-programmed software releases starts after programming.
Programming duration:	Programming takes up to **15 minutes**, depending on equipment.
Software programmed during this action:	▪ **Front-end electronics (BCM1) control unit** Software release: **0712** (or higher) Following control unit programming, the software release can be read out from the relevant control unit using the PIWIS Tester in the menu ⇒ 'Incremented identifications'.
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.

2 Read out and delete all control unit fault memories.

3 End diagnostic application, end readiness for operation and disconnect **P90999 - PIWIS Tester 4** from vehicle.

4 Switch off and disconnect the battery charger.
⇒ *Workshop Manual '270689 Charging vehicle electrical system battery'*

End of action.

Re-coding front-end electronics (BCM1) control unit

Work Procedure: 1 Re-code front-end electronics (BCM1) control unit.

The basic procedure to follow for control unit coding is described in the Workshop Manual.
⇒ *Workshop Manual '270689 Basic instructions and procedure for control unit programming using the PIWIS Tester'*

Specific information on control unit coding in the context of this Technical Information:

Required PIWIS Tester software release:	**43.400.040** (or higher)
Type of control unit coding:	Control unit coding using the **'Automatic coding'** function for the control unit: **'Front-end electronics (BCM1)'** control unit – **'Coding / programming'** menu – **'Automatic coding'** function.
Coding sequence:	Read and follow the **information and instructions on the PIWIS Tester** during the guided coding sequence. **Do not interrupt the coding process.** When coding is complete, the message "Coding has been completed successfully" is displayed and a tick appears in the "Status" box.
Procedure if control unit coding is **not successful**:	Repeat control unit coding.

2 Read out and delete all control unit fault memories.

3 End diagnostic application, end readiness for operation and disconnect **P90999 - PIWIS Tester 4** from vehicle.

4 Switch off and disconnect the battery charger.
⇒ *Workshop Manual '270689 Charging vehicle electrical system battery'*

Labor position and PCSS encryption

Labor position:

APOS	Labor operation	I No.
94492542	Re-coding front-end electronics (BCM1) control unit	
94492541	Re-program front-end electronics (BCM1) control unit	

PCSS encryption:

Location (FES5)	91520	Central computer
Damage type (SA4)	1134	programming error