

Launch Information - Macan BEV (XAB) - Alarm Goes Off Randomly



Various control units must have Vehicle Key Management System (VKMS) re-taught, even after WRM0 and PDI handover. VKMS acts as a security protocol for both immobilization and various control unit communications.

A VAL will have fault codes for VKMS not taught, e.g. some listed fault code below:

- **Main control unit body electronics HCP4 (J519) - front car electronics:**
 - **B18B0F3** - Anti-theft functions (VKMS) - not taught
 - **U303600** - Anti-theft functions (VKMS) - not taught
- **Main Infotainment HCP3 control unit (J794):**
 - **U303600** - Secure Onboard Communication (SOC) - anti-theft functions (VKMS) - not taught
- **Airbag (J234):**
 - **U303600** - Secure Onboard Communication (SOC) - anti-theft functions (VKMS) - not taught

A subsequent fault due to VKMS not being taught may occur during an integration test on the PIWIS Tester. The necessary action for "Coding signing error" may be given as a result after an integration test has been performed (Refer to Figure 1). If this necessary action occurs, verify all "Actual" and "Target" fields results for the control unit by highlighting the control unit and pressing Details (F12).

If the "Actual" and "Target" results are the same, then perform a VKMS re-teach.

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Overview	Extended identifications	Fault memory	Actual values input signals	Drive links checks	Maintenance repairs	Coding programming
Control unit		Status	Necessary action			
Left main headlight (A31)		⊗	Coding signing error			
Auxiliary headlight, left (J1018)		⊗	Coding signing error			
Auxiliary headlight, right (J1023)		⊗	Coding signing error			
Right main headlight (A27)		⊗	Coding signing error			

Teaching anti-theft functions (VKMS)

Status of the control units. Show fault of the selected control unit with [F8]. Continue with [F12].

Overview	Extended identifications	Fault memory	Actual values input signals	Drive links checks	Maintenance repairs	Coding programming
Control unit			Information		Status	
Main control unit body electronics HCP4 (J519) - front car electronics			Control unit was taught		✓	
Main HCP3 Infotainment control unit (J794) - Infotainment			Control unit was taught		✓	
HCP5 gateway main control unit (J1273) - onboard diagnostic tester			Control unit was taught		✓	