

Technical Service Bulletin

Topic	27 P0E2D: Internal Control Module Hybrid/EV Battery Monitor Performance under diagnostic address 0001
Market area	United States 444 Volkswagen of America, Inc. (6444)
Brand	Audi
Transaction No.	2077462/1
Level	EH
Status	Released for publishing
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Diagnostic trouble codes

Diagnostic address	Diagnostic trouble code	Fault symptom	Storage state
0021 - Battery management 2	P0A1F00: Battery Energy Control Module "A" Performance		Intermittent
0021 - Battery management 2	P0A1F00: Battery Energy Control Module "A" Performance		static
0021 - Battery management 2	P060400: Internal Contr.Module Random Access Memory (RAM) Error		Intermittent
0021 - Battery management 2	P060400: Internal Contr.Module Random Access Memory (RAM) Error		static
0021 - Battery management 2	P062F00: Internal Control Module EEPROM Error		Intermittent
0021 - Battery management 2	P062F00: Internal Control Module EEPROM Error		static
0021 - Battery management 2	P060600: Control Module Processor		Intermittent
0021 - Battery management 2	P060600: Control Module Processor		static
0021 - Battery management 2	P061000: Control Module Vehicle Options Error		Intermittent
0021 - Battery management 2	P061000: Control Module Vehicle Options Error		static
0021 - Battery management 2	P151A00: Control module Incorrect coding		Intermittent
0021 - Battery management 2	P151A00: Control module Incorrect coding		static
0001 - Engine electronics	P0E2D00: Internal Control Module Hybrid/EV Battery Monitor Performance		Intermittent
0001 - Engine electronics	P0E2D00: Internal Control Module Hybrid/EV Battery Monitor Performance		static

New customer code

Object of complaint	Complaint type	Position
information, navigation, communication, entertainment -> information display symbols -> battery charge level information display	functionality -> activates	
information, navigation, communication, entertainment -> malfunction display symbols -> vehicle electrical system malfunction indicator	functionality -> activates	
information, navigation, communication, entertainment -> indicator display symbols	component, automotive fluids	
information, navigation, communication, entertainment -> information display symbols	functionality	
information, navigation, communication, entertainment -> malfunction display symbols	functionality	
information, navigation, communication, entertainment -> warning display symbols	functionality	
information, navigation, communication, entertainment -> instrument cluster, displays, screens	functionality	
information, navigation, communication, entertainment -> instrument cluster, displays, screens	control modules, services	
power, vehicle electrical system, data transfer -> battery management	functionality	
power, vehicle electrical system, data transfer -> battery management	control modules, services	
power, vehicle electrical system, data transfer -> power supply -> auxiliary battery	electrical -> voltage too low	
power, vehicle electrical system, data transfer -> power supply -> auxiliary battery	component, automotive fluids -> damaged	
power, vehicle electrical system, data transfer -> power supply -> auxiliary battery	component, automotive fluids -> loose	
power, vehicle electrical system, data transfer -> power supply -> auxiliary battery	component, automotive fluids -> too hot	
information, navigation, communication, entertainment -> instrument cluster, displays, screens -> battery voltage display	component, automotive fluids -> damaged	
information, navigation, communication, entertainment -> instrument cluster, displays, screens -> battery charging current display	functionality -> gives incorrect reading	
information, navigation, communication, entertainment -> instrument cluster, displays, screens -> battery charging current display	component, automotive fluids -> damaged	

New workshop code

Object of complaint	Complaint type	Position
power, vehicle electrical system, data transfer -> power supply -> starter battery	electrical -> voltage too low	

Vehicle data

A6 (C8) MY24-25

Sales types

Type	MY	Brand	Designation	Engine code	Gearbox code	Final drive code
4A*	2024	A		*	*	*
4A*	2025	A		*	*	*

A8 MY24-25

Sales types

Type	MY	Brand	Designation	Engine code	Gearbox code	Final drive code
4N*	2024	A		*	*	*
4N*	2025	A		*	*	*

Q7/Q8 MY24-25

Sales types

Type	MY	Brand	Designation	Engine code	Gearbox code	Final drive code
4M*	2024	A		*	*	*
4M*	2025	A		*	*	*

A7 MY24-25

Sales types

Type	MY	Brand	Designation	Engine code	Gearbox code	Final drive code
4K*	2024	A		*	*	*
4K*	2025	A		*	*	*

Documents

Document name
master.xml

Condition

Customer statement:

- Fault message in instrument cluster: “Electrical system fault: currently restricted. Journey can be continued” in combination with a yellow/red battery symbol or “Electric/electrical system: fault. Please contact workshop.” in combination with a yellow/red battery symbol (Figure 1).



Figure 1. Message in the instrument cluster.

Workshop findings:

The following event memory entry is logged under diagnostic address 0001:

- P0E2D:** Internal Control Module Hybrid/EV Battery Monitor Performance

One of the following event memory entries is logged under diagnostic address 0021:

- P0A1F00:** Battery Energy Control Module Malfunction.
- P060400:** Internal Contr. Module Random Access Memory (RAM) Error.
- P062F00:** Internal Control Module EEPROM Error.
- P060600:** Control module faulty.
- P061000:** Control Module Vehicle Options Error.
- P151A00:** Control Module Vehicle Options Error.

Technical Background

If the event memory entries listed under the workshop findings are logged in diagnostic address 0021, this indicates a hardware fault on the 48V battery.

Production Solution

Not applicable.

Service

1. Check with the diagnostic tester whether the following event memory entry is logged in diagnostic address 0001:
 - **P0E2D00**: Internal Control Module Hybrid/EV Battery Monitor Performance
2. If the event memory entry **P0E2D00** is logged in diagnostic address 0001, check diagnostic address 0021 for the following event memory entries:
 - **P0A1F00**: Battery Energy Control Module Malfunction
 - **P060400**: Internal Contr. Module Random Access Memory (RAM) Error
 - **P062F00**: Internal Control Module EEPROM Error
 - **P060600**: Control module faulty
 - **P061000**: Control Module Vehicle Options Error
 - **P151A00**: Control Module Vehicle Options Error
3. If one of the event memory entries is logged under diagnostic address 0021, work through the entry with Guided Fault Finding. Follow the instructions given in Guided Fault Finding.

Warranty

Claim Type:	If the vehicle is outside of any warranty, this Technical Service Bulletin is informational only.		
Service Number:	2708		
Damage Code:	0040		
Labor Operations:	GFF / Guided Functions	0150 0010	See SRT with associated operations
	GFF / Guided Functions	0150 0060	See SRT with associated operations
Claim Comment:	As per TSB 2077462/1		

All warranty claims submitted for payment must be in accordance with the *Audi Warranty Policies and Procedures Manual*. Claims are subject to review or audit by Audi Warranty.

Additional Information

All part and service references provided in this TSB (**2077462**) are subject to change and/or removal. Always check with your Parts Department and/or ETKA for the latest information and parts bulletins. Please check the Repair Manual for fasteners, bolts, nuts, and screws that require replacement during the repair.

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