Technical Service Bulletin

93 Vehicle does not start, DTC P0AA200 or P0AA500 is stored in the hybrid battery management control module

93 21 53 2063251/2 July 12, 2021. Supersedes Technical Service Bulletin Group 93 number 21-49 dated May 17, 2021 for reasons listed below.

Model(s)	Year	VIN Range	Vehicle-Specific Equipment
A7 TFSIe, Q5 TFSI	2020 - 2022	All	e-tron

Condition

REVISION HISTORY		
Revision	**Date**	**Purpose**
2	-	Revised *Warranty* (Updated Labor Operation)
1	05/17/2021	Initial publication

Customer states:

- The vehicle does not start.

Workshop findings:

The following DTC(s) may be stored in the hybrid battery management control module, J840 (address word 008C):

- **DTC P0AA200** (Hybrid/EV Battery Positive Contactor Circuit Stuck Open) with symptom code 20481.

And/or

- **DTC P0AA500** (Hybrid/EV Battery Negative Contact Circuit Stuck Open) with symptom code 20483.

Technical Background

The contact surfaces of the HV contactors built into the battery junction box (BJB) can in rare cases oxidize if they are not used for a very long time or if the air humidity is extremely high.

This oxidation concern can be rectified by the procedure mentioned in this TSB.

Production Solution

Not applicable.

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Service

If the following DTC(s) are stored in the hybrid battery management control module, J840 (address word 008C):

- **DTC P0AA200** (Hybrid/EV Battery Positive Contactor Circuit Stuck Open) with symptom code 20481 (Figure 1).

And/or

- **DTC P0AA500** (Hybrid/EV Battery Negative Contact Circuit Stuck Open) with symptom code 20483 (Figure 2).

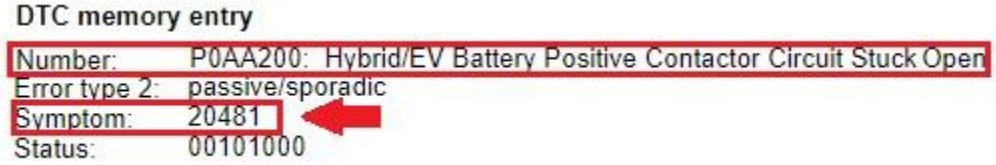

Figure 1. *DTC P0AA200 with symptom code 20481.*

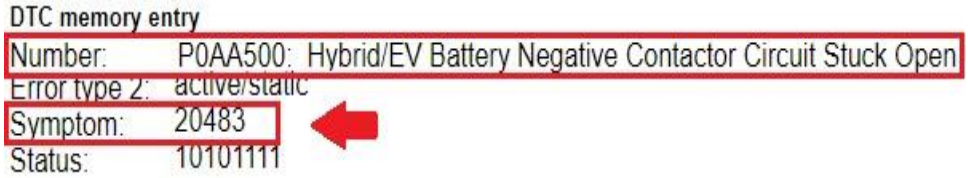

Figure 2. *DTC P0AA200 with symptom code 20483.*

DANGER

High voltage increases the risk of fatal injury.

Severe bodily injury or death by electrocution or electric arcs is possible.

- **Have an Audi high-voltage technician or an Audi high-voltage expert de-energize the high-voltage system.**

WARNING

High voltage increases the risk of fatal injury.

Severe bodily injury or death by electrocution or electric arcs is possible.

- **have an Audi high-voltage technician or and Audi high-voltage expert bring the high-voltage system back into service.**

For the DTCs specified above, GFF suggests replacing the switching unit for the high-voltage battery (Battery Junction Box, SX6).

Do not proceed according to GFF; instead, perform the following steps in the specified sequence:

1. Read out all measured value blocks relating to energy management from the gateway via GFF and make them available in GFF paperless.
2. Switch the ignition off and on again 5 to 10 times in a row (waiting for 5 seconds each time).
3. Erase all DTCs.
4. Perform a road test (EV mode with as many electrical consumers as possible switched on).
5. Then re-assess whether the issue still occurs.

If the issue does not occur again:

- Return vehicle to the customer. This condition is very rare and we do not expect the concern to repeat itself.

If the issue occurs again:

1. Proceed according to the scan tool and replace the High-Voltage Battery Control Module SX6 (BJB). Follow all instructions in the scan tool and the Elsa repair manual.
2. Read out all measured value blocks relating to energy management from the gateway via GFF and make them available online (option 2 in GFF).
3. Switch the ignition off and on again 5 to a maximum of 10 times in a row (waiting for 5 seconds each time).
4. Erase all DTCs.
5. Perform a road test (EV mode with as many electrical consumers as possible switched on).
6. Then re-assess whether the issue still occurs.

Warranty

Claim Type:	• 110 up to 48 Months/50,000 Miles. • G10 for CPO Covered Vehicles – Verify Owner. • If the vehicle is outside any warranty, this Technical Service Bulletin is informational only.		
Service Number:	9327		
Damage Code:	0010		
Labor Operations:	TSB Test Procedure, performed once **(Issue resolved 1st attempt)**	9327 0199	10 TU

	TSB Test Procedure, performed twice **(Issue not resolved 1st attempt repair required)**	9327 0299	10 TU
	HV battery control module remove + reinstall **(only to be claimed if the TSB Test Procedure did not repair the concern on the 1st attempt)**	9327 1950	See SRT with associated operations
Diagnostic Time:	GFF	0150 0000	Time stated on the diagnostic protocol (Max 100 TU)
	Road test prior to service procedure	No allowance	0 TU
	Road test after service procedure	0121 0004	10 TU
Claim Comment:	As per TSB #2063251/2		

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.

Required Parts and Tools

Always check with your Parts Department and/or ETKA for the latest information and parts bulletins.

Parts are only to be replaced if the TSB Test Procedure did not repair the concern on the 1st attempt.

Part Number	Part Description	Quantity
See ETKA	Fasteners, Bolts, Nuts and Screws as needed per the Repair Manual	See ETKA/ELSA
Q5		
80A915235* (Order by VIN)	High-voltage battery switch box BJB	01
A7		
4K0915254* (Order by VIN)	High-voltage battery switch box BJB	01

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Additional Information

All part and service references provided in this TSB (206325) 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.