

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

93 21 49 2063251/1 May 17, 2021.

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

## Condition

#### **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.

## 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

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

#### DTC memory entry

Number:	P0AA200: Hybrid/EV Battery Positive Contactor Circuit Stuck Open
Error type 2:	passive/sporadic
Symptom:	20481
Status:	00101000

Figure 1. DTC P0AA200 with symptom code 20481.

DTC memory entry			
Number:	P0AA500: Hybrid/EV Battery Negative Contactor Circuit Stuck Open		
Error type 2:	active/static		
Symptom:	20483		
Status:	10101111		

Figure 2. DTC P0AA200 with symptom code 20483.

### A 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).

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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.

Claim Type:	<ul> <li>• 110 up to 48 Months/50,000 Miles.</li> <li>• G10 for CPO Covered Vehicles – Verify Owner.</li> <li>• If the vehicle is outside any warranty, this Technical Service Bulletin is informationly.</li> </ul>		
Service Number:	9327		
Damage Code:	0010		
Labor Operations:	TSB Test Procedure, performed once (Issue resolved 1 <sup>st</sup> attempt)	9327 0199	10 TU
	TSB Test Procedure, performed twice (Issue not resolved 1 <sup>st</sup> 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 1 <sup>st</sup> attempt)	9319 1950	See SRT with associated operations
Diagnostic Time:	GFF	0150 0000	Time stated on the diagnostic

### Warranty

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			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 #2063251/1		

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.

## **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 1 <sup>st</sup> 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	

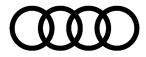
## **Additional Information**

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.

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