

# Technical Service Bulletin



## 93 Red battery symbol, DTC P0B1300, P33F000, or U059B00 is stored in the hybrid battery management module

93 23 08 2068491/2 May 19, 2023. Supersedes Technical Service Bulletin Group 93 number 22-88 dated November 15, 2022, for reasons listed below.

Model(s)	Year	VIN Range	Vehicle-Specific Equipment
A7 e quattro	2021 – 2022	All	Not Applicable
Q5 e quattro	2020 – 2022		

## Condition

REVISION HISTORY		
Revision	Date	Purpose
2	-	Revised <i>Service</i> (Added software update for A7 and MY 2020 and 2021 Q5) Revised <i>Header</i> (Added A7 and MY 2020 and 2021 Q5)
1	11/08/2022	Initial publication

### Customer states:

- In the instrument cluster, the red battery symbol is shown with the text “Electrical system: fault. Safely stop vehicle” (Figure 1).
- After switching the ignition off and then on again, the warning lamp is off and the vehicle works again.



Figure 1. Red battery symbol.

### Workshop findings:

The following DTC is stored in the hybrid battery management module, J840 (address word 008C):

- DTC P0B1300** (Hybrid/HV battery current measurement sender 1/2 variation) with symptom code 14348.

This TSB applies if one of the following DTC Combinations is logged in the hybrid battery management module, J840 (address word 008C):

DTC	Description	DTC #2
P0B1300	Only entry in 008C	none
P0B1300	In combination with	P33F000
P0B1300	In combination with	U059B00



The TSB **does not apply** if other DTCs in addition to the above combinations are logged in the hybrid battery management module, J840 (address word 008C). In this case, continue diagnosis outside of the TSB.



## Note:

According to Guided Fault Finding, the switching unit for high-voltage battery should be replaced. However, replacing the part will not solve the problem.

## Technical Background

There are certain issues with the internal communication between the switching unit electronics and the power/voltage sensor.

## Production Solution

Not Applicable

## Service

This TSB replaces Pending Service Solution (PSS) 2062211: *PSS 93 Red battery symbol, DTC P0B1300 is stored in the hybrid battery management module.*

If the above condition applies to the vehicle the Hybrid Battery Management software part number and version must be checked.

Using ODIS identify the hybrid battery regulation control module (J840) address word 008C (Figure 2).

- If the software part number *is* 4M4915233G with version 0371 *perform SVM update Option 1 below.*
- If the software part number *is not* 4M4915233G with version 0371 *perform SVM update Option 2 below.*

**Address: 008C System name: 8C - Hybrid Battery Management**

### Identification:

Data source:	Vehicle
Hardware part number:	4M0915233C
Part number:	4M0915233AE
Hardware version number:	H08
Software version number:	0278

*Figure 2. Hybrid Battery Management software and version*



## SVM Update Option 1 Instructions

1. Follow all instructions in TSB 2011732: *00 Software Version Management (SVM), operating instructions.*
2. Update the Hybrid Battery Management control unit (J840) using the SVM action code as listed in the table below, if necessary:



### Note:

To prevent the high-voltage battery from charging during the software update, the high-voltage charging cable on vehicles with high-voltage components must be unplugged BEFORE the SVM code is entered. Charging the high-voltage battery during a software update can cause damage to the high-voltage components.

Model	Old Software Part Number	Old Software Version	New Software Part Number	New Software Version (or higher)	SVM Code Input
Q5 TFSIe	4M4915233G	0371	4M4915233K	0373	8CA009

## SVM Update Option 2 Instructions



### Note:

For this repair option two SVM codes will need to be run and they must be in the order provided below:

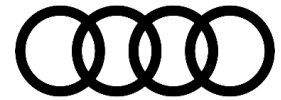
1. Follow all instructions in TSB 2011732: *00 Software Version Management (SVM), operating instructions.*
2. Update the Hybrid Battery Management control unit (J840), the Battery Junction Box (SX6) and the Cell Module Control units (CMC) using the SVM action code as listed in the table below, if necessary:



### Note:

To prevent the high-voltage battery from charging during the software update, the high-voltage charging cable on vehicles with high-voltage components must be unplugged BEFORE the SVM code is entered. Charging the high-voltage battery during a software update can cause damage to the high-voltage components.

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Model	Old Software Part Number	Old Software Version	New Software Part Number	New Software Version (or higher)	SVM Code Input
Q5 TFSle	4M0915233R	0273	4M0915233C	0278	8CA011 + 8CA011KONF
		0274			
A7 TFSle	4K0915233	0275	4K0915233A	0278	
	4M4915233B	0371	4M4915233B	0373	

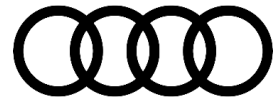
## Warranty

<b>Claim Type:</b>	<ul style="list-style-type: none"> <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 informational only.</li> </ul>		
<b>Service Number:</b>	9327		
<b>Damage Code:</b>	0040		
<b>Labor Operations:</b>	Software Update	0151 0000	Time stated on diagnostic protocol (Max 80 TU)
<b>Diagnostic Time:</b>	GFF	No allowance	0 TU
	Road test prior to service procedure	No allowance	0 TU
	Road test after service procedure	No allowance	0 TU
<b>Claim Comment:</b>	As per TSB 2068491/2		

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.

## Additional Information

All part and service references provided in this TSB (**2068491**) 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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