



Technical Service Bulletin

93 Update OBC software when replacing HV wiring harness for charging socket P31D200

93 24 47 2070110/4 March 22, 2024. Supersedes Technical Service Bulletin Group 93 number 23-17 dated July 26, 2023 for reasons listed below.

Model(s)	Year	VIN Range	Vehicle-Specific Equipment
e-tron quattro	2019	All	OBC Cluster 1
e-tron Sportback quattro	2020		

Condition

REVISION HISTORY		
Revision	Date	Purpose
4	-	Revised title (Added DTC P31D200) Revised <i>Condition</i> (Added DTC)
3	07/26/2023	Revised <i>Service</i> (Updated Part Numbers)
2	05/09/2023	Revised <i>Service</i> (Updated Software)

Workshop findings:

The following DTC may be stored in the On-Board Battery Charger -J1050-, (address word 00C6):

- **P31D200:** “Charge socket A Excessive temperature.”

The High Voltage Wiring Harness for the charging socket UX4 or UX5 is replaced as part of any repair work (Figure 1).

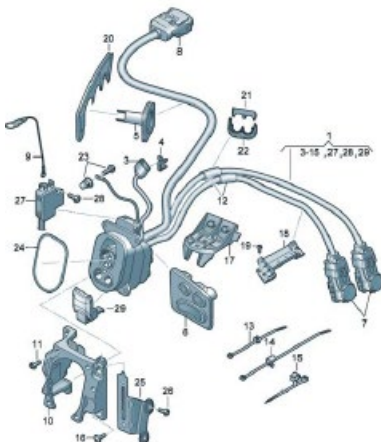


Figure 1. High-voltage wiring harness for charging socket.



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Technical Background

The charging socket was modified in production.

Production Solution

From Q2 2020, only the new-generation high-voltage wiring harness for the charging socket is fitted in production vehicles.

Service

It is essential to check the part number of the removed original high-voltage wiring harness and of the new replacement high-voltage wiring harness.

No further service measures are necessary if the following table applies:

Part number <u>removed</u> from vehicle		New part number <u>installed</u> in vehicle
4KL 971 093 H	is replaced with	4KL 971 093 H
4KL 971 093 A 4KL 971 093 J	is replaced with	4KL 971 093 J
4KR 971 093 E	is replaced with	4KR 971 093 E
4KR 971 093 A 4KR 971 093 F	is replaced with	4KR 971 093 F
4KL 971 106 E	is replaced with	4KL 971 106 E
4KL 971 106 G 4KL 971 106 N	is replaced with	4KL 971 106 N
4KL 971 106 C	is replaced with	4KL 971 106 C
4KL 971 106 A 4KL 971 106 D	is replaced with	4KL 971 106 D

Table 1.1: No further measures.

If the high-voltage wiring harness for the charging socket is replaced as listed in Table 1.1, no further measures are necessary and this TSB does not apply.

If the following table applies, the measures described below must be performed:



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Part number <u>removed</u> from vehicle		New part number <u>installed</u> in vehicle
4KL 971 093 H	is replaced with	4KL 971 093 AD
4KL 971 093 A 4KL 971 093 J	is replaced with	4KL 971 093 R
4KR 971 093 E	is replaced with	4KR 971 093 K
4KR 971 093 A 4KR 971 093 F	is replaced with	4KR 971 093 L
4KL 971 106 E	is replaced with	4KL 971 106 J
4KL 971 106 G 4KL 971 106 N	is replaced with	4KL 971 106 L
4KL 971 106 C	is replaced with	4KL 971 106 F
4KL 971 106 A 4KL 971 106 D	is replaced with	4KL 971 106 N

Table 1.2: Further measures required TSB applies.

If the high-voltage wiring harness for the charging socket is replaced as listed in Table 1.2, an SVM code will need to be performed *and a replacement test plan performed*.

SVM Update Instructions

NOTICE

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.

NOTICE

The parking brake must be released and the diagnostic interface must be hardwired into the scan tool.

1. Follow all instructions in TSB 2011732: *00 Software Version Management (SVM), operating instructions*.
2. Update the On-Board Battery Charger (J1050) using the SVM action code as listed in the table below, if necessary:



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Model	Old Software Part Number	Old Software Version	New Software Part Number	New Software Version (or higher)	SVM Code Input
e-tron	5QE915684J	0019	5QE915684DD	0032	C6A012
	5QE915684J	0020			
	5QE915684J	0023			
	5QE915684L	0031			

After the SVM code has been performed the following must be performed with the scan tool.

Using the latest ODIS version, start diagnostics via Guided Fault Finding -> "Select own test".

- 00C6 – High-voltage battery charger – J1050.
- 00C6 – High-voltage battery charger, functions.
- C6 – Replace the control module.

After the update, the basic setting of the parking brake must be performed.

Warranty

Claim Type:	<ul style="list-style-type: none"> • 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:	9353		
Damage Code:	0010		
Labor Operations:	Software update	0151 0000	Time stated on diagnostic protocol (Max 30 TU)
Diagnostic Time:	GFF (High-voltage battery charger replacement test plan)	0150 0000	Time stated on diagnostic protocol (Max 30 TU)
	Road test prior to service procedure	No allowance	0 TU



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	Road test after service procedure	No allowance	0 TU
Claim Comment:	As per TSB 2070110/4		

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 (**2070110**) 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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