

Technical Service Bulletin

Topic	93 e-tron update OBC software when replacing HV wiring harness for charging socket - NTC to PT1000 charging socket
Market area	United States 444 Volkswagen of America, Inc. (6444)
Brand	Audi
Transaction No.	2070110/5
Level	EH
Status	Released for publishing
Release date	Apr 23, 2025

New customer code

Object of complaint	Complaint type	Position
power, vehicle electrical system, data transfer -> power supply -> high-voltage battery charging socket	component, automotive fluids -> damaged	
power, vehicle electrical system, data transfer -> battery management -> charging high-voltage battery	functionality -> faulty	

Vehicle data

e-tron GE MJ19-20 OBC Cluster 1

Sales types

Type	MY	Brand	Designation	Engine code	Gearbox code	Final drive code
GE*	2019	A		*	*	*
GE*	2020	A		*	*	*

PR numbers

PR numbers
? :with ES6

Control units

Diagnostic address	Software part number	Software version	Hardware part number	Hardware version
00C6 - High-voltage battery charger	*	0022	*	*
00C6 - High-voltage battery charger	*	0023	*	*
00C6 - High-voltage battery charger	*	0024	*	*
00C6 - High-voltage battery charger	*	0020	*	*

Diagnostic address	Software part number	Software version	Hardware part number	Hardware version
00C6 - High-voltage battery charger	*	0030	*	*
00C6 - High-voltage battery charger	*	0031	*	*
00C6 - High-voltage battery charger	*	0021	*	*

Documents

Document name
master.xml
vehicle_data_master.doc

Condition

REVISION HISTORY		
Revision	Date	Purpose
5	-	Revised title (Removed DTC P31D200) Revised <i>Condition</i> (Removed DTC) Revised <i>Service</i> (Added additional checks) Revised <i>Warranty</i> (Updated Labor operations)
4	03/22/2024	Revised title (Added DTC P31D200) Revised <i>Condition</i> (Added DTC)
3	07/26/2023	Revised <i>Service</i> (Updated Part Numbers)

Workshop findings:

- Please note the following when replacing the High-voltage wiring harness for the charging socket as part of repair work:
- It is essential to check the part number of the removed High-voltage wiring harness and of the new High-voltage wiring harness

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

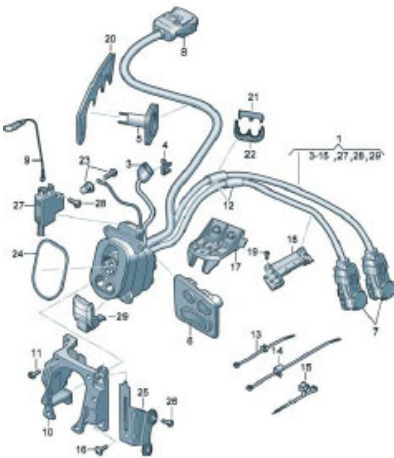


Figure 1. High-voltage wiring harness for charging socket.

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:

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.*



NOTICE

If the vehicle in question has the PR number JS1 (second charging socket), both charging sockets must be replaced.



When replacing the high voltage wiring harness for the charging socket, check the information in tables 1.1 and 1.2 so that it can be clearly assigned to this TSB. The following repair must only be carried out if all the criteria (part number, software version, code etc.) apply exactly. Otherwise, this solution will not eliminate the issue and repeat repairs may be necessary. In such a case, we may reject the warranty claim and charge back the cost of the parts.

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:

Model	Old Software Part Number	Old Software Version	New Software Part Number	New Software Version	SVM Code Input
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				(or higher)	
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.

Then work through the remaining DTC entries.

Warranty

Claim Type:	• If the vehicle is outside any warranty, this Technical Service Bulletin is informational only.		
Service Number:	9353		
Damage Code:	0010		
Labor Operations:	Charge battery	2706 8950	See SRT with associated operations
	Software update	0151 0000	Time stated on the diagnostic protocol
Claim Comment:	As per TSB 2070110/5		

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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