



Technical Service Bulletin

20 EPC Light on: Fuel level sender DTC entry B10581B, B103E1B Resistance too high

20 24 71 2070211/2 July 10, 2024. Supersedes Technical Service Bulletin Group 20 number 23-59 dated May 4, 2023 for reasons listed below.

Model(s)	Year	VIN Range	Vehicle-Specific Equipment
Q7	2017 - 2024	All	Not Applicable
A6, and Q8	2019 - 2024		
A7	2019 - 2023		
A6 allroad, S6, SQ7, SQ8, and RS Q8	2020 - 2024		
S7	2020 - 2023		
RS 6 Avant	2021 - 2024		
RS 7	2021 - 2023		
A7 e quattro	2021 - 2024		

Condition

REVISION HISTORY		
Revision	Date	Purpose
2	-	Revised header (Add Model Year, Model(s), etc.) Revised <i>Condition</i> (Add workshop findings) Revised <i>Technical Background</i> (Add updated background) Revised <i>Product Solution</i> (Add Solution introduction dates) Revised <i>Service</i> (Add repair directions) Revised <i>Warranty Table</i> (Add additional Labor Ops) Revised <i>Parts and Tools</i> (Add Parts list)
1	05/05/2023	Initial publication

Customer states:

An EPC warning and a fuel system warning are displayed in the instrument cluster.

Workshop findings:

The following DTC are stored in the Comfort System Central Control Module, J393 (address word 0046):

- **B10581B** Fuel level sensor 2 Resistance too high with symptom number 65698.



Technical Service Bulletin

or

- **B103E1B** Fuel level sensor 1 Resistance too high with symptom number 65694.

Technical Background

Deposits build up on tank senders.

Production Solution

- Increased debounce time week 50/2023.

Service

1. Follow all instructions in TSB [→ 2011732](#): *00 Software Version Management (SVM), operating instructions*.
2. Update the J393 (0046) using the SVM action code as listed in the table below, if necessary:
 - Issue with tank sender 1:
 - Please run SVM code 46A033 and then check the complaint again. If the complaint has not been remedied, please replace tank sender 2.
 - Issue with tank sender 2:
 - Please run SVM code 46A033 and then check the complaint again, if the complaint has not been remedied, please replace the tank and tank sender 1.

Model	Engine, Transmission, or Diagnostic Address	Old Software Part Number	Old Software Version	New Software Part Number (or higher)	New Software Version (or higher)	SVM Code Input
A6/A7 MY19	0046	4K8909501D		4K8909501D	0037	46A033
A6/A7 MY20		4K8909501G		4K8909501G	0045	
A6/A7 MY20		4K8909501H		4K8909501H	0045	
A6/A7 MY21		4K8909501K		4K8909501K	0052	
A6/A7 MY22		4K8909501N		4K8909501N	0056	



Technical Service Bulletin

A6/A7 MY23		4K8909501R		4K8909501R	0061
Q7 MY17		4M0909501G		4M0909501G	0064
Q7 MY18		4M0909501J		4M0909501J	0065
Q7 MY19		4M0909501L		4M0909501L	0072
Q7 MY19		4M0909501M		4M0909501M	0072
Q7 MY19		4M0909501P		4M0909501P	0072
Q7 MY20		4M0909501N		4M0909501N	0081
Q7 MY21		4M0909501S		4M0909501S	0086
Q7 MY22		4M0909501AA		4M0909501AA	0089
Q7 MY23		4M0909501AB		4M0909501AB	0091
Q8 MY18		4M8909501A		4M8909501A	0017
Q8 MY19		4M8909501D		4M8909501D	0025
Q8 MY20		4M8909501E		4M8909501E	0029
Q8 MY21		4M8909501G		4M8909501G	0036
Q8 MY22		4M8909501J		4M8909501J	0041
Q8 MY23		4M8909501K		4M8909501K	0042

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 of any warranty, this Technical Service Bulletin is informational only. 		
Service Number:	2015		
Damage Code:	0040		
Labor Operations:	Replace fuel tank	2010 55XX	See SRT with associated operations



Technical Service Bulletin

	Remove and install fuel gauge sender	2015 19XX	See SRT with associated operations
	Software Update (Includes checking for DTCs)	0151 0060	Time stated on the diagnostic protocol
	Charge battery	2706 8950	See SRT with associated operations
Diagnostic Time:	GFF	No allowance	0 TU
Claim Comment:	As per TSB 2070211/2		

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.		
Part Number	Part Description	Quantity
See ETKA	Fasteners, Bolts, Nuts, and Screws as needed per the Repair Manual	See ETKA/ELSA
See ETKA	Fuel level sender 1 (If needed)	01
See ETKA	Fuel tank (If needed)	01

Additional Information

All parts and service references provided in this TSB (**2070211**) are subject to change and/or removal.

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