Technical Service Bulletin

91 Parking aid sporadically does not work, DTC B107BF0 or B10FCF0 stored in the driver assist systems

91 21 51 2058769/5 November 17, 2021. Supersedes Technical Service Bulletin Group 91 number 21-03 dated May 18, 2021 for reasons listed below.

Model(s)	Year	VIN Range	Vehicle-Specific Equipment
Audi e-tron sportback quattro, Audi e-tron GT, and Audi RS e-tron GT	2020 - 2023	All	Driver Assist Systems
A6, A7, A8, Q7, Q8, and Audi e-tron quattro	2019 - 2023	All	Driver Assist Systems

Condition

REVISION HISTORY		
Revision	**Date**	**Purpose**
5	-	Revised header (Added Model)
4	05/18/2021	Revised header (Added Model Years)
3	11/07/2020	Revised header (Updated applicable vehicles)

Customer states:

- The warning message “Front/rear parking aid: Sensor view restricted because of environmental factors No obstacle warning” appears in the instrument cluster relating to the parking aid system.

Workshop findings:

- The message is reproducible.

One of the following DTCs are stored in the control module for driver assist systems, J1121 (address word 00A5):

- **DTC B107BF0** (Rear parking aid sender, malfunction because of environment influences) with symptom code 233479 or 233473.

Or

- **DTC B10FCF0** (Front parking aid sender, malfunction because of environment influences) with symptom code 233523 or 233472.

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Technical Background

The new 6th generation ultrasound parking aid sensors are fitted for the first time at the introduction of the 2019 A8 (type 4N).

Within the limits of this new system there is the ability to detect problems due to external influence such as dirt, ice, and external ultrasound signals.

When the system detects such problems the system is made temporarily unavailable in order to prevent false warnings to the driver. When this occurs a message is displayed to the driver in the instrument cluster.

Below are examples based on the symptom code found with DTC B107BF0 or B10FCF0:

- **Symptom 233479/233523:** Temporary partial availability of the system because of environmental influences (e.g. external ultrasound signal, street sweeper, construction equipment etc.).
- **Symptom 233473/233472:** Temporary partial availability of the system because of environmental influences (e.g. dirt/ice).

Production Solution

Not applicable.

Service

Perform the following checks on the respective ultrasound sensors (depending on DTC):

- Check for dirt, ice, foreign objects, stickers, and a properly fit license plate.
- Check for damage on the bumper, air intake grille, and underbody which indicates an impact during parking.
- Check for mechanical damage (stone chips and scratches).
- Check the fit of the sensors, bumpers, and trim in the surrounding areas.
- Check the measured value block "Vibration time of parking aid sender" in the control module for driver assist systems, J1121 (address word 00A5) for a cyclic/dynamic change of the respective measured values when approaching an obstacle.

Scenario 1: If the concern occurs sporadically: No further measures are necessary, as it is caused by environmental influences.

Note:

In this case, replacement of the driver assistance systems J1122 without clear findings is not effective. Part replacement of the J1121 does not solve this issue. Claims for replaced parts will be subject to review.

Scenario 2: If the concern is reproduced or is static: One of the ultrasound sensors, mountings or circuits may be faulty. If this is the case, proceed with standard diagnosis.

Note:

An indicator a malfunction may be present is a significantly increased frequency counter within the standard ambient conditions of the respective fault code.

Warranty

Claim Type:	• 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:	9175		
Damage Code:	0040		
Labor Operations:	Checking of the parking aid sensor	9175 0199	20 TU
Diagnostic Time:	GFF	0150 0000	Time stated on the diagnostic protocol (Max 100 TU)
	Road test prior to the service procedure	No allowance	0 TU
	Road test after the service procedure	No allowance	0 TU
Claim Comment:	As per TSB #2058769/5		

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 (2058769) 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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