

Technical Service Bulletin



90 Individual overhead view cameras are inoperative (picture is blurry or fogged up), DTCs B200FFA, B127C04, C12AE02

90 23 30 2055188/6 June 20, 2023. Supersedes Technical Service Bulletin Group 90 number 23-14 dated March 15, 2023, for reasons listed below.

Model(s)	Year	VIN Range	Vehicle-Specific Equipment
A6, A7, A8, and Q8	2019 – 2024	All	Overhead view camera
e-tron quattro	2019 2021 – 2024		
A6 allroad, S6, S7, S8, Q7, SQ7, SQ8, and RS Q8	2020 – 2024		
A8 e quattro	2020 – 2021		
RS 6 Avant, and RS 7	2021 – 2024		
A7 e quattro	2021 – 2022		
e-tron S quattro	2022 – 2024		

Condition

REVISION HISTORY		
Revision	Date	Purpose
6	-	Revised Technical Background (added info about J1121's diagnostic capabilities) Revised Service (clarified fault analysis process and repair) Revised Warranty (updated labor ops) Revised Required Parts and Tools (removed section)
5	03/15/2023	Revised title (corrected service number) Revised header (added new model years)
4	04/20/2022	Revised header (added e-tron GT)

Customer states:

- One of the overhead view cameras is inoperative.



- One of the overhead view cameras is fogged up.

Workshop findings:

One or more of the following DTC(s) may be stored in the control module for driver assist systems, J1121 (address word 00A5):

Description	Faulty	Video cable signal error	Excess temperature
Front overhead view camera	B127C04	C12AE02	B127C4B
Rear overhead view camera	B127D04	C12AF02	B127D4B
Left overhead view camera	B127E04	C12B002	B127E4B
Right overhead view camera	B127F04	C12B102	B127F4B

And/Or

- DTC B200FFA (internal malfunction) with symptom code 282648 or 282649.

Technical Background

Because of shortcomings in the diagnostic capability of the driver assist systems control unit –J1121–, a problem with an individual overhead view camera (e.g. faulty camera, short/open circuit in the video cable, water ingress, etc...) can cause a partial or complete failure of the overhead view camera system. All, or some of the DTC entries above may be logged, even if only one camera is affected. Further, the blanked out camera on the MMI screen may not be related to the defective camera branch.

Production Solution

Not Applicable

Service

Scenario 1:

An individual overhead view camera is fogged up or the image from it is cloudy or blurry

Replace the fogged/blurry overhead view camera alongside the adapter wiring harness and take clear pictures of the complaint.

Scenario 2:



Several or all DTCs listed in the table above are entered in the driver assist systems control unit –J1121–

Due to shortcomings in the diagnostic capability of the driver assist systems control unit –J1121–, all or some of the DTCs in the table above may be entered in address word 00A5. The entered DTCs or crossed out cameras on the MMI display may not correspond to the defective camera branch.

In order to locate the fault, disconnect **ALL** cameras from the driver assist systems control unit –J1121– and then connect each camera **individually** to the driver assist systems control unit.

Each time a different camera branch is connected, a bus sleep cycle must be performed in order to reinitialize the driver assist systems control unit –J1121–.

For each camera, activate the overhead view camera system, then move the doors/hood/trunk (depending on the position of the camera that is currently checked) and check at the same time that the image displays correctly and uninterrupted on the MMI screen.

This should point to the affected camera branch in the vehicle.

Once the camera branch is identified, check all the coupling points and coax cables between the driver assist systems control unit –J1121– and the affected overhead view camera (–R243–, –R244–, –R245–, –R246–) for loose connectors, loose/pushed back pins, corrosion or damage (e.g. around pinched/overbent/kinked coax cables around the mirror feet)

NOTICE

Replacing cameras (–R243–, –R244–, –R245–, –R246–) or the driver assist systems control module –J1121– will not resolve this customer complaint. Claims for replaced cameras or driver assist systems control modules may be denied.

Scenario 3:

A single DTC is logged for one individual overhead view camera (without any other DTCs from the table above)

Perform a bus sleep cycle to reinitialize the control module for driver assist systems –J1121–.

Activate the overhead view camera system, then move the doors/hood/trunk (depending on the position of the camera that is currently checked) and check at the same time that the image displays correctly and uninterrupted on the MMI screen.

If the DTC persists and is identical to the initial DTC, check all the coupling points and coax cables between the driver assist systems control unit –J1121– and the affected overhead view camera (–R243–, –R244–, –R245–, –R246–) for loose connectors, loose/pushed back pins, corrosion or damage (e.g. around pinched/overbent/kinked coax cables around the mirror feet)

If no problem with the wiring can be identified, swap the affected overhead camera with another one. If the fault follows the camera, replace the affected camera.

If no problem with the camera can be identified, double check the wiring by removing the connector housing on the J1121 side of the coax wire and swapping it with a camera at a different position. If the fault follows the swapped coax wire, overlay the coax wire to the camera.

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NOTICE

Replacing the driver assist systems control module –J1121– will not resolve the customer complaint. Claims for replaced driver assist systems control module –J1121– may be denied.

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:	9083		
Damage Code:	0040		
Labor Operations:	Check overhead view camera	9083 0199	Please bill according to time required. All work carried out must be clearly documented.
	Remove and install overhead view camera	9083 19XX	See SRT with associated operations
	Adjust overhead view camera	9083 1550	See SRT with associated operations
Diagnostic Time:	GFF	0150 0000	Time stated on the diagnostic protocol (Max 150 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 2055188/6		

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 parts and service references provided in this TSB (**2055188**) are subject to change and/or removal.

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