



Technical Service Bulletin

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

90 24 54 2055188/13 December 16, 2024. Supersedes Technical Service Bulletin Group 90 number 24-36 dated October 14, 2024 for reasons listed below.

Model(s)	Year	VIN Range	Vehicle-Specific Equipment
A6, A7, A8, and Q8	2019 – 2025	All	Overhead camera
e-tron	2019 2021 – 2023		
A6 allroad, S6, S7, S8, Q7, SQ7, SQ8, and RS Q8	2020 – 2025		
e-tron Sportback	2020 – 2023		
A8 e quattro	2020 – 2021		
RS 6 Avant, and RS 7	2021 – 2025		
A7 e quattro	2021 – 2022		
e-tron GT, and RS e-tron GT	2022 – 2025		
Q8 e-tron, Q8 Sportback e-tron, SQ8 e-tron, and SQ8 Sportback e-tron	2024 – 2025		

Condition

REVISION HISTORY		
Revision	Date	Purpose
13	-	Revised <i>Service</i> (updated verbiage)
12	10/14/2024	Revised <i>Condition</i> (updated customer states verbiage)
11	08/11/2024	Revised <i>Warranty</i> (updated labor ops)

Customer states:

The customer complains about one or more of the following issues with the overhead view camera system:



Technical Service Bulletin

- One of the overhead view cameras is steamed up.
- The overhead view camera system does not work (intermittent/static issue).
- Individual overhead view cameras do not work (intermittent/static issue).
- Multiple overhead view cameras do not work (intermittent/static issue).

Workshop findings:

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

Description	Fault	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 (symptom 282648 or 282649).

 **CAUTION**

Replacing the driver assist systems control unit -J1121- (address word 00A5) because of DTC B200FFA – Internal malfunction (symptom 282648 or 282649) will **NOT** fix the customer complaint.

Technical Background 1

Deviation in the diagnostic capability of the driver assist systems control unit -J1121-.

Production Solution

Not applicable.

Service

Scenario 1:

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

Because of deviations in the diagnostic capability of the driver assist systems control unit -J1121-, an individual overhead view camera (e.g., faulty overhead view camera, short 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 above DTCs are logged.



Technical Service Bulletin

If necessary, replace the fogged/blurry overhead view camera alongside the adapter wiring harness and take clear pictures of the complaint.

NOTICE

Please note that during the following checks, the vehicle must enter bus sleep after each step so that the overhead view camera system is reinitialized.

NOTICE

Replacing the driver assist systems control unit -J1121- without clear findings will NOT resolve the issue.

Scenario 2:

Several DTCs about various cameras are stored:

Because of deviations in the diagnostic capability of the driver assist systems control unit -J1121-, an individual overhead view camera (e.g., faulty overhead view camera, short 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 above DTCs are logged.

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 operate the doors/hood/trunk (depending on the position of the camera that is currently checked) and at the same time check that the image displays correctly and uninterrupted on the MMI screen.

This should point to the affected camera harness(es) branch(es) 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.

If no cause can be located, the following measures must be performed to narrow down the cause:

- Swap an individual overhead view camera with another one (e.g., -R244- with -R245-) to rule out a faulty overhead view camera.
- Swap the video cable connection on the driver assist systems control unit -J1121- with another one (e.g., video cable of -R244- with video cable of -R245-) to rule out a faulty video cable. The connector housing on the video cable must be removed to do this.
- If it is not possible to locate the harness causing the issue using the procedure described in section 2, please refer to TSB 2076264.



Technical Service Bulletin

NOTICE

Please note that during the following checks, the vehicle must enter bus sleep after each step so that the overhead view camera system is reinitialized.

NOTICE

Replacing driver assist systems control unit -J1121- without clear findings will NOT resolve the issue.

Scenario 3:

A single DTC is logged for one individual overhead view camera (there are no other DTCs)

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

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

If the DTC persists and is identical to the initial DTC (otherwise, continue with Scenario 2), 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.

If no cause can be located, the following measures must be performed to narrow down the cause:

- Swap an individual overhead view camera with another one (e.g., -R244- with -R245-) to rule out a faulty overhead view camera.
- Swap the video cable connection on the driver assist systems control unit -J1121- with another one (e.g., video cable of -R244- with video cable of -R245-) to rule out a faulty video cable. The connector housing on the video cable must be removed to do this.

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.

NOTICE

Please note that during the following checks, the vehicle must enter bus sleep after each step so that the overhead view camera system is reinitialized.

Warranty

Claim Type:	• If the vehicle is outside any warranty, this Technical Service Bulletin is informational only.
Service Number:	9083
Damage Code:	0040



Technical Service Bulletin

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
	GFF	0150 0060	Time stated on the diagnostic protocol
	Charge battery	2706 8950	See SRT with associated operations
	If the driver assist systems control unit has to be removed for the checks, additionally:		
	Remove and install driver assist systems control unit	9093 19xx	See SRT with associated operations
Claim Comment:	As per TSB 2055188/12		

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 (**2055188**) 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.

©2024 Audi of America, Inc. All rights reserved. The information contained in this document is based on the latest information available at the time of printing and is subject to the copyright and other intellectual property rights of Audi of America, Inc., its affiliated companies, and its licensors. All rights are reserved to make changes at any time without notice. No part of this document may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, nor may these materials be modified or reposted to other sites without the prior expressed written permission of the publisher.