Technical Service Bulletin

90 Driver Assist Systems various improvements (DTC C12D5FA, B200FF9, B107A16, intersection assist arrows flicker)
90 23 99 2069244/1 February 2, 2023.

Model(s)	Year	VIN Range	Vehicle-Specific Equipment
A8 e quattro	2021	All	Not Applicable
A6, S6, A6 allroad, RS 6 Avant, A7, A7 e quattro, S7, RS 7, A8, S8, e-tron quattro, e-tron Sportback quattro, Q7, SQ7, Q8, SQ8, and RS Q8	2021 - 2022		
e-tron S, e-tron GT, and RS e-tron GT	2022		

Condition

Customer States:

- The intersection assist arrows flicker for a short period after the vehicle is started (figure 1).

OR

- Various driver assist warnings are displayed on the instrument cluster.

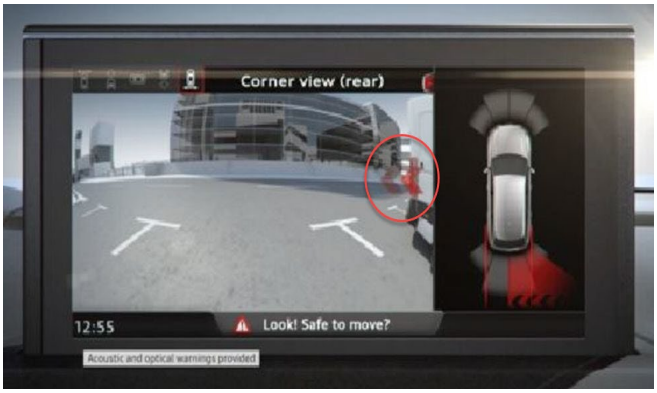

Figure 1: *RCTA/Intersection assist arrows.*

Workshop findings:

No DTCs, or one or more of the following DTCs may be stored in the control module for driver assist systems (zFAS) -J1121- (address word 00A5).

- **DTC C12D5FA:** control unit for driver assist systems, picture processor does not respond (sym. 221281), **sporadic**.

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- **DTC B200FF9:** Internal Malfunction (sym. 2117657).
- **DTC B107A16:** Supply voltage for park assist sensor Voltage too low (sym. 233474).

Technical Background

The complaints listed have been observed with prior versions of the control unit software.

Production Solution

The optimized software for the affected control units was implemented in production in model year 2023.

Service

This TSB replaces PSS 2065489/1: *PSS 91 Intersection assist arrows flicker after the vehicle is started.*

For Model Years 2019 and 2020 A6, A7, A8, Q7, Q8, and e-tron quattro please refer to:

- PSS 2060332: *PSS 90 Audi adaptive light/Audi pre sense malfunction or driver assist systems inop, DTC C12D5FA stored.*
- PSS 2061489: *PSS 90 Pre sense malfunction/driver assist systems sporadically inop, DTC B200FF9 is stored in the driver assist module.*
- PSS 2061689: *PSS 90 Parking aid inop, DTC B107A16 stored in the driver assistance system with symptom code 233474.*

NOTICE

If active fault messages about driver assist systems are shown in the instrument cluster, this TPI may not solve the problem. If the flashing procedure is started despite active fault messages, the flash routine will be aborted and it may be necessary to replace control units as a result. Please attempt to resolve those cluster messages by clearing vehicle DTCs and cycling the ignition before starting this procedure.

CAUTION

Always use DoIP when flashing a control module via ODIS in supported vehicles.

To Activate DoIP, select Administration >> General >> GFF Process >> DoIP communication >> Only allow DoIP communication

This setting will automatically reset when the diagnostic session is ended.

You can tell if DoIP is active by observing a red LED on the VAS 6154(A).

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1. Follow all instructions in TSB 2011732: *00 Software Version Management (SVM), operating instructions*. The update may take, depending on the vehicle equipment and prior software level, between 30 and 90 minutes.
2. Update the vehicle using the SVM action code as listed in the table below, if necessary:

CAUTION

On the screen with the message "Should the entered SVM code be accepted or the vehicle connection be changed", make sure that DoIP is selected. If DoIP is not selected, you can change the vehicle access protocol by selecting "-3- Change vehicle access (CAN, DoIP, CANFD). Not selecting DoIP may lead to extremely long flash times that may not be fully reimbursed by warranty.

Diag. Address	Old Software Part Number	Old Software Version	New Software Part Number (or higher)	New Software Version (or higher)	SVM Code Input
0013	*	0492 0500 0501	*	0641	**FASISKD6A001**
00A5	*	0364 0365 0366 0371	*	0381	

Step 3: Bus sleep cycle

- Exit the flash context in ODIS.
- Turn off the ignition.
- Remove the charger as well as the diagnostics dongle from the vehicle.
- Close the hood, trunk, and all doors.
- Wait approximately 6 minutes, until the vehicle has gone to "sleep".

Troubleshooting steps

In rare cases, the following DTCs may be entered in the driver assist systems control unit -J1121- (diagnostic address 00A5) after the software update:

- **DTC B200FF3:** Internal malfunction (sym. 221193)

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- **DTC B170AF1:** Calibration step 2 not carried out (sym. 2117696)

If either DTC is stored, please perform the ODIS test plan that is calculated for DTC B170AF1.

- **DTC B107A16:** Supply voltage for park assist sensor Voltage too low (sym. 233474) can still be stored in the vehicle after the update. However, the fault no longer causes permanent symptoms (until the DTC is cleared), as it did before.

The symptoms should now resolve after an ignition cycle.

Please inform the customer that some driver assist settings may revert to their default value after the update is performed.

Warranty

Claim Type:	• 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:	9093		
Damage Code:	0039		
Labor Operations:	Software Update (Includes checking for DTCs)	0151 0000	Time stated on the diagnostic protocol (Max 200 TU)
Diagnostic Time:	GFF	No allowance	0 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 2069244/1		

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

The following Technical Service Bulletin(s) will be necessary to complete this procedure:

- TSB 2011732: *00 Software Version Management (SVM), operating instructions.*

All part and service references provided in this TSB (**2069244**) are subject to change and/or removal. Always

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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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