



# Technical Service Bulletin

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## 91 Adaptive Cruise Assist is not available, DTCs C12EBF1, C12EB92 is stored in the laserscanner

91 22 13 2053776/8 July 28, 2022. Supersedes Technical Service Bulletin Group 91 number 20-54 dated December 18, 2020, for reasons listed below.

| Model(s)                                       | Year        | VIN Range | Vehicle-Specific Equipment |
|--|-------------|-----------|----------------------------|
| A8   | 2019 – 2024 | All       | Adaptive Cruise Control    |
| A6, S6, A7, S7,<br>and Q8                      | 2019 – 2020 |           |                            |
| e-tron quattro                                 | 2019        |           |                            |
| S8   | 2020 – 2024 |           |                            |
| A8 e quattro                                   | 2020 – 2021 |           |                            |
| e-tron Sportback<br>quattro, SQ8, and<br>RS Q8 | 2020        |           |                            |

## Condition

| REVISION HISTORY |      |   |
|------------------|------|---|
| Revision         | Date | Purpose   |
| 8                | -    | Revised header (Added MY22/23/24)<br>Revised Technical Background (Added DTC description)<br>Revised Service (Updated procedure for SW0306) |



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|   |            |   |
|---|------------|---|
|   |            | Revised Warranty (updated labor ops according to updated service procedure)                               |
| 7 | 12/18/2020 | Revised header (Added MY21 and expanded applicable vehicles)<br>Revised <i>Service</i> (Updated SVM code) |
| 6 | 06/19/2020 | Revised <i>Warranty</i> (Updated Labor Operation)   |

## Customer states:

- The adaptive driving assistance is not available or cannot be activated.

## Workshop findings:

One of the following DTCs may be stored in the control module for laser scanner, J1122 (address word 00CD):

- DTC C12EBF1 (laser for adaptive cruise control, malfunction) with symptom code 11546627.

Or

- DTC C12EB92 (laser for adaptive cruise control, malfunction) with symptom code 11546631 and/or 11546632.

## Technical Background

A software malfunction may cause certain DTCs to enter erroneously

| Event memory entry/symptom  | Conditions   | Fault message in the instrument cluster? |
|---|--|--|
| C12EBF1 / 11546627<br>Laser for adaptive cruise control Malfunction | Diagnosis detected discrepancies in cover on laser scanner | NO                                       |



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|   |   |     |
|---|---|-----|
| C12EB92 / 11546631<br>Laser for adaptive cruise control Malfunction | Diagnosis detected that cover on laser scanner is missing | YES |
| C12EB92 / 11546632<br>Laser for adaptive cruise control Malfunction | Event memory entry C12EB92 / 11546631 logged three times  | YES |

## Production Solution

Not Applicable.

## Service

If the software version is lower than SW 0306:

SVM Update Instructions:

1. Follow all instructions in TSB 2011732: 00 Software Version Management (SVM), operating instructions.
2. Update the control module for lasers canner, J1122 (address word 00CD) using the SVM action code as listed in the table below, if necessary:

| Model   | Old Software Part Number               | Old Software Version | New Software Part Number | New Software Version (or higher) | SVM Code Input |
|---|--|----------------------|--------------------------|----------------------------------|----------------|
| A6, A7, A8,<br>Q8, and Audi<br>e-tron quattro | 4K8907660B<br>4K8907660C<br>4K8907660D | 0200<br>0201<br>0202 | 4K8907660E               | 0306                             | CDA003         |



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|  |  |      |  |  |  |
|--|--|------|--|--|--|
|  |  | 0304 |  |  |  |
|--|--|------|--|--|--|



**Tip:** After the update, a bus sleep has to be awaited before clearing DTCs.

**If the software version is exactly SW 0306:**

Please check the table below for the service procedure according to the DTCs stored:

| Event memory entry/symptom  | Conditions   | Fault message in the instrument cluster | Measure  |
|---|--|---|--|
| C12EBF1 / 11546627<br>Laser for adaptive cruise control Malfunction | Diagnosis detected discrepancies in cover on laser scanner | NO (from SW0205 onwards)                | Check laser scanner for damage and dirt.<br>If no issues are found, further measures are generally not necessary.<br><br><b>Note:</b><br>If the software version of the control unit for laser distance control J1122 is SW0205 or newer, event memory entry "C12EBF1: laser for adaptive cruise control Malfunction" with symptom no. 11546627 may still be logged <u>statically</u> . Because of a changed reaction class, this event memory entry has no impact on the function of the adaptive cruise assist and can be ignored. |
| C12EB92 / 11546631  | Diagnosis detected that                                    | YES                                     | Check laser scanner for damage and dirt.   |



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|   |  |     |  |
|---|--|-----|--|
| Laser for adaptive cruise control Malfunction                       | cover on laser scanner is missing                        |     | If no issues are found, please work through the test plan stored for these event memory entries in ODIS. The event memory entry is erased when you complete the test plan; further measures are generally not necessary.   |
| C12EB92 / 11546632<br>Laser for adaptive cruise control Malfunction | Event memory entry C12EB92 / 11546631 logged three times | YES | Check laser scanner for damage and dirt.<br>If no issues are found, please work through the test plan stored for these event memory entries in ODIS. The event memory entry is erased when you complete the test plan; further measures are generally not necessary. |

## Warranty

|                   |   |           |   |
|-------------------|---|-----------|---|
| Claim Type:       | <ul style="list-style-type: none"> <li>• 110 up to 48 Months/50,000 Miles.</li> <li>• G10 for CPO Covered Vehicles – Verify Owner.</li> <li>• If vehicle is outside any warranty, this Technical Service Bulletin is informational only.</li> </ul> |           |   |
| Service Number:   | 9159  |           |   |
| Damage Code:      | 0039  |           |   |
| Labor Operations: | Software Update   | 0151 0000 | Time stated on the diagnostic protocol (Max 100 TU) |



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|                  |                                      |              |       |
|------------------|--------------------------------------|--------------|-------|
|                  | Check laser scanner control unit     | 9159 0199    | 10 TU |
| Diagnostic Time: | GFF                                  | No allowance | 0 TU  |
|                  | Road test prior to service procedure | No allowance | 0 TU  |
|                  | Road test after service procedure    | No allowance | 0 TU  |
| Claim Comment:   | As per TSB 2053776/8                 |              |       |

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 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 (**2053776**) 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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