



Technical Service Bulletin

96 Calibration of the front camera and/or DTC C1106F0, C110A76 or B201000 is stored in the front camera

96 20 57 2060826/1 October 5, 2020.

Model(s)	Year	VIN Range	Vehicle-Specific Equipment
Q7, SQ7	2016 - 2019	All	Multifunction camera
A4, A4 allroad, and S4	2016 – 2020	All	Multifunction camera
A5, A5 Cabriolet, A5 Sportback, S5, S5 Cabriolet, S5 Sportback, RS5, RS5 Sportback Q5, and SQ5	2018 - 2020	All	Multifunction camera

Condition

Workshop findings:

- You are requested by the Guided Fault Finding to calibrate the front camera.

Or

One of the following DTCs may be stored in the front camera for the driver assist systems (address word 00A5):

- DTC C1106F0** (dynamic calibration limit exceeded) with symptom code 662.

Or

- DTC B201000** (no basic settings) with symptom code 660.

Or

- DTC C110A76** (camera control module Incorrect installation location) with any symptom code.

Technical Background

Not applicable.



Technical Service Bulletin

Production Solution

Not applicable.

Service

Perform the following work before calibrating the front camera:

1. Read all DTCs.
2. Self-diagnosis >> adaptation >> read result of static calibration (0x0548).
3. Read all measured value blocks of the front camera for the driver assist systems (address word 00A5).
4. Upload the diagnostics log to GFF Paperless and DOC-IT.

Before calibration:

If DTC B201000 (no basic settings) with symptom code 660 is logged as static in the initial readout, then please ask the customer the following questions. Make a note of their answers in the workshop findings of the claim:

1. Was work on the front camera or windscreen previously carried out? If yes, when?
2. Where was this work completed (name of the Audi dealer or an external company)?

When calibrating the front camera follow the instructions of the Guided Fault Finding and the repair manual.



Note:

Parts replacement does not solve this issue. Claims for replaced parts will be subject to review.

In case of **problems with the calibration**, the **following points** may be helpful:

- Check whether an **Audi OEM Windshield** is installed. If this is not the case, the windscreen has to be replaced to ensure the calibration of the front camera and the correct function of the camera-based assistance systems.
- Check the **windshield for dirt and grime in the field of view of the camera**.
- For the correct functionality of the front camera, a **silicon pad** is necessary. **Every time the front camera is removed** the silicon pad has to be replaced. If necessary also check that **only one silicon pad** is installed and that it is **clean**.
- Avoid powerful light sources or sunshine shining onto the calibration panel or the camera.



Technical Service Bulletin

- If an error occurs during calibration, check whether the calibration marks have been recognized correctly. Each value has to be at or above 63. In case it is below, the field of view of the camera must be re-checked and the silicon pad of the front camera may have to be replaced. The error message "Not enough circles found" may appear.
- If during calibration the error message "**Output parameter wrong**" appears, follow the instructions of the diagnostics tester.
- If the calibration is aborted with the error message "**Wrong calibration board distance**", check the distance of the calibration panel to the vehicle. If a "**Beissbarth**" calibration device is used, cover the left and right small panel with the protective sleeve 1.690.702.246 during the calibration (Figure 1).



Figure 1. Beissbarth calibration board cover

Warranty

Claim Type:	<ul style="list-style-type: none">• 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:	9638		
Damage Code:	0010		
Labor Operations:	Check front camera for assistance systems	9638 0199	20 TU
Diagnostic Time:	GFF	No allowance	0 TU
	Road test prior to the service procedure	No allowance	0 TU



Technical Service Bulletin

	Road test after the service procedure	No allowance	0 TU
Claim Comment:	As per TSB #2060826/1		

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.



Note:

Labor operations for the regular camera calibration or troubleshooting are not included in this TSB and will have to be applied via the regular warranty process.

Additional Information

All part and service references provided in this TSB (2060826) 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.

©2020 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.