

Technical Service Bulletin

91 Night vision system inoperative, DTC B201000 is stored in the night vision control module

91 20 91 2045020/5 August 4, 2020. Supersedes Technical Service Bulletin Group 91 number 19-12 dated November 13, 2019 for reasons listed below.

Model(s)	Year	VIN Range	Vehicle-Specific Equipment
Q7, SQ7	2017 - 2019	All	With night vision system
A6, A7, S6, S7, RS6, and RS7	2015 - 2018	All	With night vision system

Condition

REVISION HISTORY		
Revision	Date	Purpose
5	-	Revised <i>Service</i> (Updated Step 5) Revised <i>Warranty</i> (Updated LO section)
4	11/13/2019	Revised header (Added MY19 Q7)
3	07/17/2018	Revised title Revised header (Updated models)

Customer states:

- The night vision system cannot be turned on.

Workshop findings:

The following DTC is stored in the night vision control module, J853 (address word 0084):

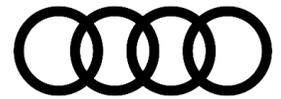
- DTC B201000** (no basic settings).

Technical Background

Deviation of the mounting angle between the night vision camera and the body mounting bracket.

Production Solution

Not applicable.



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Service

1. Inspect the front of the vehicle for any signs of damage or impact. If any external damage is found, this TSB does not apply.
2. Before proceeding, confirm that **DTC B201000** (no basic settings) is stored in the night vision control module, J853 (address word 0084). If the DTC is not stored, this TSB does not apply.
3. Perform calibration of the night vision control module, J853 (address word 0084) via GFF. Reference the Elsa Repair Manual for full instructions on the calibration of the infrared system.
4. Following the calibration, one of five messages will be displayed on the diagnostic tester:

“Calibration tool not found”:

- Recheck the setup of the night vision calibration tool to the vehicle as outlined in the Elsa Repair Manual, *44 Wheels, Tires, Wheel Alignment >> Infrared System >> Infrared System, Calibrating*.
- Perform the calibration a second time.
- If “Calibration tool not found” message returns, perform diagnostics outside of this TSB.

“Rolling angle incorrect”:

- Perform the adjustment a second time.
- If “Rolling angle incorrect” message returns after calibration, inspect the night vision camera for any damage. This TSB does not apply.

“Calibration not successful”:

- If the measurement angles of the night vision system are outside the required specifications after performing a calibration, this message will appear.
- Perform the adjustment a second time.
- If this message returns, check the vehicle for signs of damage. This TSB does not apply.

“Calibration successful”

The calibrated pitch angle displayed on the tester is:

- +0.8° or lower: No further work is needed. This TSB does not apply.
- +0.9° to +1.9°: Write down the displayed angles as they will be needed later. Continue with TSB.

5. Two spacers (part number N01152322) will be placed between the grill and night vision camera mounting bracket at the upper mounting points to adjust the angle of the night vision camera.



Note:

RS 7 or vehicles with radiator shutter will require the removal of the front cover to perform the installation of spacers. In all other vehicles, it is possible to complete the installation without removal of the front cover.



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6. Loosen the night vision camera mounting bracket by loosening the four mounting screws that hold the mounting bracket to the radiator grille. Mounting screws are shown in the image below (Figure 1) by numbered arrows 1, 2, 3, and 4.



Tip: Do not remove or loosen the four screws that hold the camera onto the camera mounting bracket, these are shown in the image with red dotted arrows.

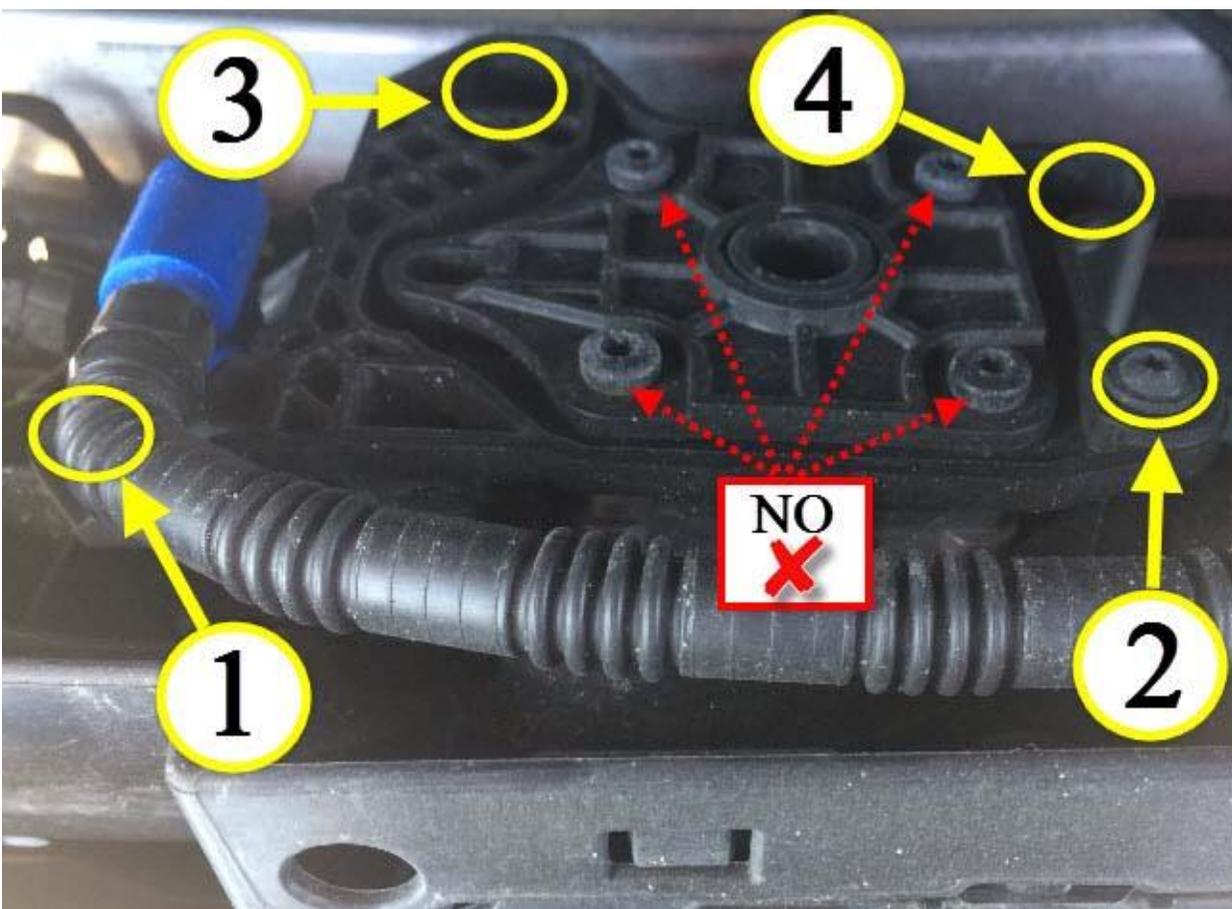
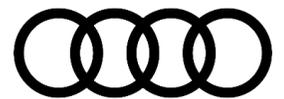


Figure 1. Night vision camera mounting bracket screw retainer locations 1, 2, 3, and 4. Loosen screws 1, 2, 3, and 4. Do not remove or loosen the four screws holding the camera to the bracket.

7. Place a single spacer, part number N01152322, between each of the two upper mounting points that secure the night vision camera bracket to the radiator grille. These screws are shown in the above image as points 1 and 2 (Figure 1). The image below (Figure 2) references these points on the radiator grill as 1 and 2. The next image (Figure 3) shows the placement of the spacer on the camera as points 1 and 2, the camera has been removed for clarity.



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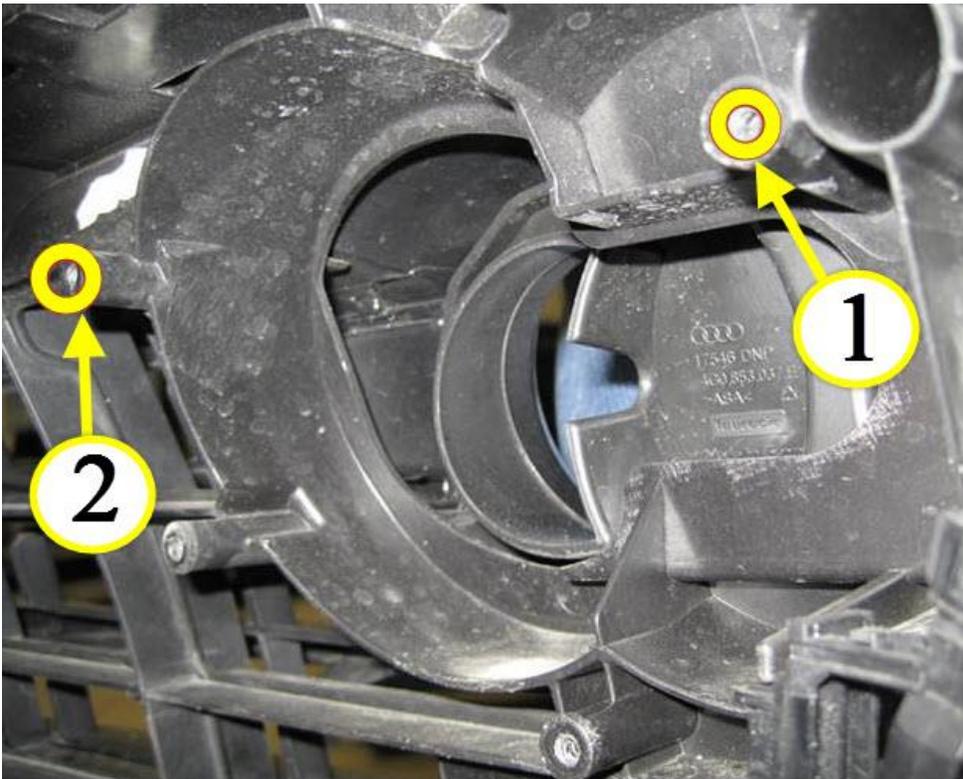


Figure 2. Radiator grille screw retainer locations with camera removed for reference. Spacers (N01152322) will be placed at locations 1 and 2.

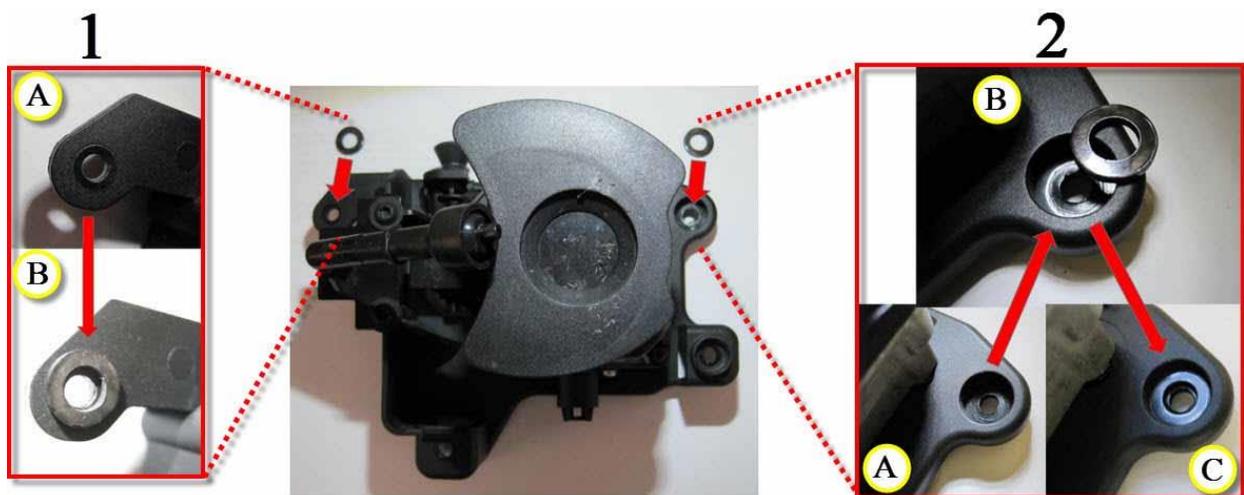
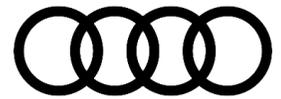


Figure 3. Additional photo showing the spacer placement with the camera removed for reference. Place a spacer on the grille facing side of the camera's upper mounting surface in positions 1 and 2.

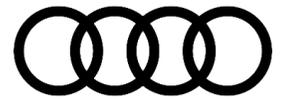


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8. After positioning the two spacers between the night vision cameras upper mount points and the radiator grille, torque all four screws to 2.5Nm.
9. Perform the calibration of the night vision system once again. Following the calibration, the new final pitch angles displayed by the tester should be between 0.3° and 1° less than the original values recorded. A final pitch value between +0.5° and +1.1° is acceptable.
10. If this is an RS 7 model, additional systems must also be calibrated due to the removal of the front bumper. Consult the Elsa repair manual for these procedures.

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:	9080		
Damage Code:	0010		
Labor Operations:	Camera f night vision sys adjust	9080 1550	See SRT with associated operations
	Preparation Driver Assist Calibration	9092 0050	See SRT with associated operations
	Vehicle front-rear check	4495 0100	See SRT with associated operations
	Camera f night vision sys remove + reinstall	9080 1900	See SRT with associated operations
	Modify an infrared camera for the night vision system	9080 4999	10 TU
	Camera f night vision sys adjust (After Repairs)	9080 1550	See SRT with associated operations
	Additional labor operations for RS7 or vehicles with radiator shutter:		



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	Front bumper cover remove + reinstall	6329 1900	See SRT with associated operations
	Overhead view camera adjust	9083 1550	See SRT with associated operations
	Radar sensor adjust	9163 1650	See SRT with associated operations
Diagnostic Time:	GFF	0150 0000	Time stated on the diagnostic protocol (Max 100 TU)
	Road test prior to service procedure	No allowance	0 TU
	Road test after service procedure	0121 0004	10 TU
Claim Comment:	As per TSB # 2045020/5		

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.

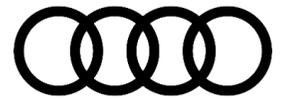
Required Parts and Tools

Always check with your Parts Department and/or ETKA for the latest information and parts bulletins.		
Part Number	Part Description	Quantity
N 01152322	Spacer	02
See ETKA	Fasteners, Bolts, Nuts, and Screws as needed per the Repair Manual	See ETKA/ELSA

Additional Information

All parts and service references provided in this TSB (2045020) are subject to change and/or removal.

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