

Technical Service Bulletin



90 Night vision system inoperative; DTC: B201000 (no basic settings)

90 16 70 2045020/1 August 31, 2016.

Model(s)	Year	VIN Range	Vehicle-Specific Equipment
A6, A7	2015 -2017	All	With night vision system

Condition

- The night vision system cannot be turned on.
- **DTC B201000** (no basic settings) is stored in the night vision control module (address word 84).

Technical Background

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

Production Solution

Not applicable.

Service

1. Inspect front of 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 (address word 84). If the DTC is not stored, this TSB does not apply.
3. Perform calibration of night vision control module (address word 84) via GFF. Reference the Elsa repair manual for full instructions on 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.
 - Perform the calibration a second time.
 - If “Calibration tool not found” message returns, perform diagnostics outside of this TSB.
 - “**Rolling angle incorrect**”:
 - Perform 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 TPI 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 will require removal of the front cover to perform installation of spacers. In all other vehicles, it is possible to complete installation without removal of the front cover.

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

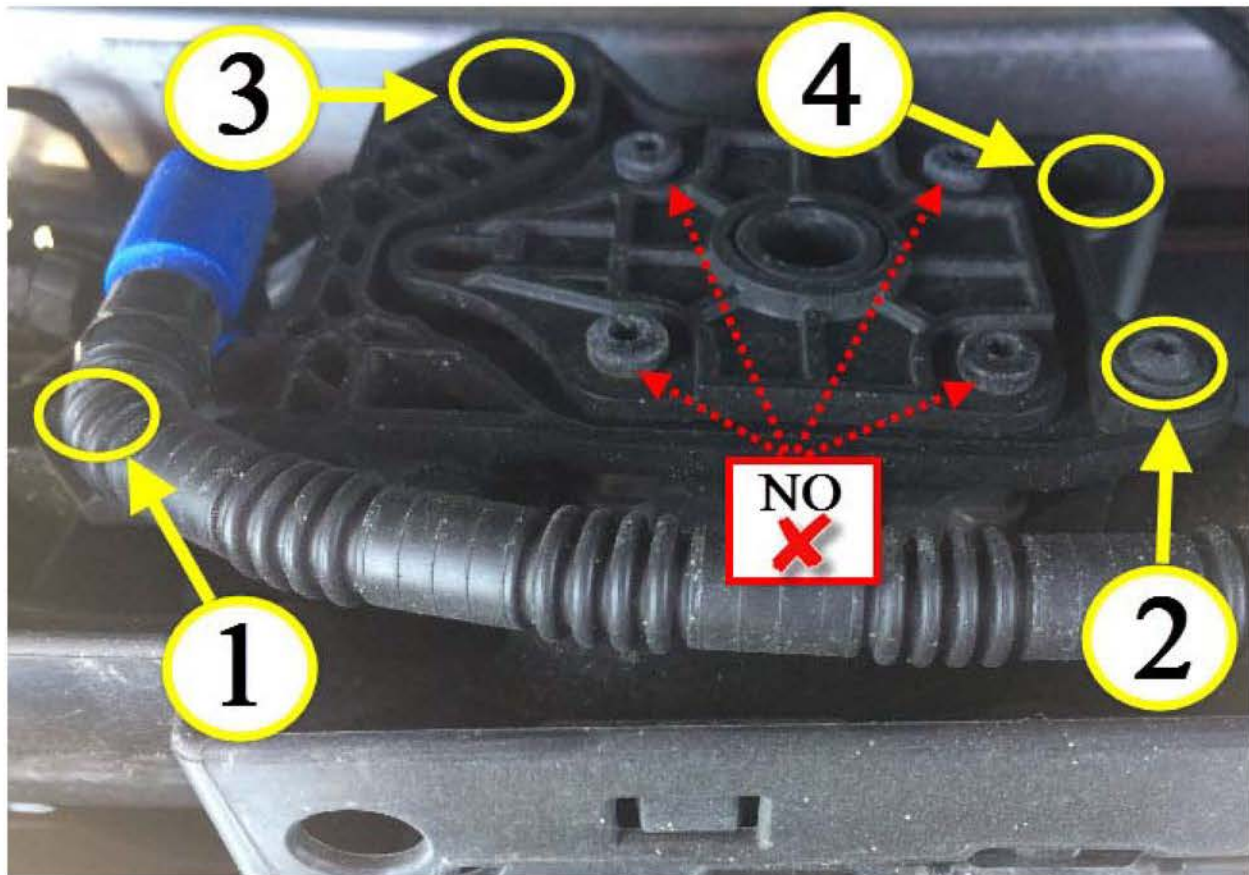


Figure 1. Night Vision Camera Mounting Bracket Screw Retainer Locations 1,2,3,4. Loosen Screws 1,2,3,4. Do not remove or loosen the four screws holding the camera to the bracket.

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 grill. 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 placement of the spacer on the camera as points 1 and 2, the camera has been removed for clarity.

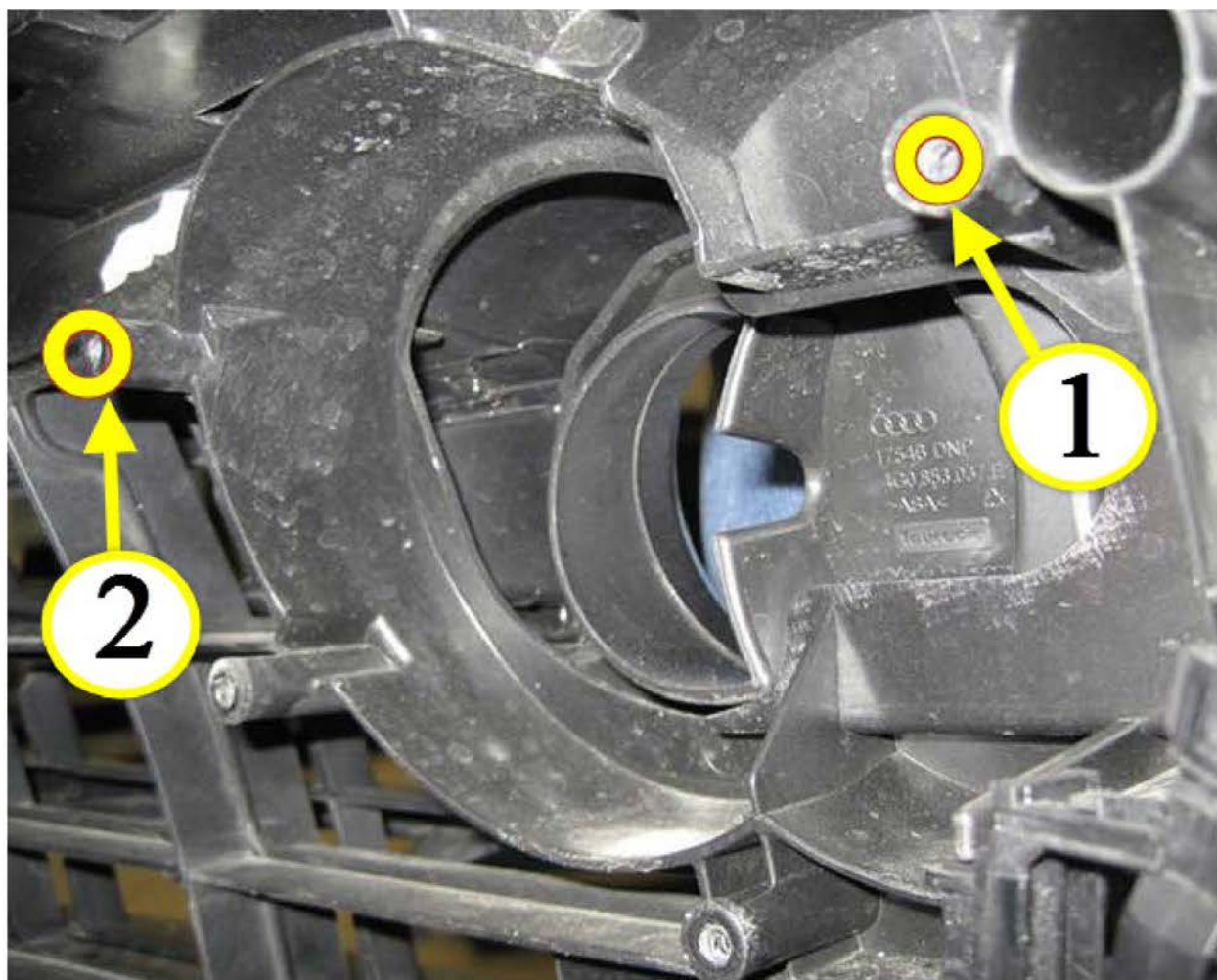


Figure 2. Radiator grill screw retainer locations with camera removed for reference. Spacer (N01152322) will be placed at locations 1 and 2.

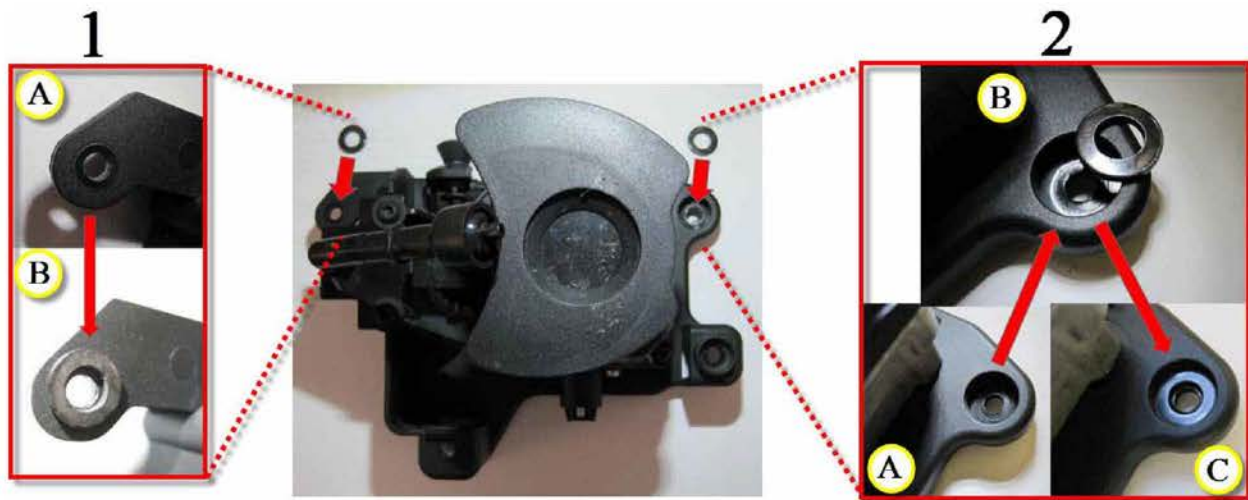


Figure 3. Additional photo showing spacer placement with the camera removed for reference. Place spacer on the grill facing side of the camera's upper mounting surface in positions 1 and 2.

8. After positioning the two spacers between the night vision cameras upper mount points and the radiator grill, 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 $+0.5^{\circ}$ and $+1.1^{\circ}$ is acceptable.
10. If this is an RS 7 model, additional systems must also be calibrated due to removal of the front bumper. Consult the Elsa repair manual for these procedures.

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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 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	40 TU
	Preparation Driver Assist Calibration	9092 0050	30 TU
	Vehicle front rear check	4495 0100	70 TU
	Camera f night vision sys remove+reinstall	9080 1900	50 TU
	Modify infrared camera for night vision system	9080 4999	10 TU
	Camera f night vision sys adjust (After Repairs)	9080 1550	40 TU
	Additional labor operations for RS 7:		
	Front bumper cover remove+reinstall	6329 1900	90 TU
	Overhead view camera adjust	9083 1550	50 TU
	Radar sensor adjust	9163 1650	90 TU
Diagnostic Time:	GFF	0150 0000	Time stated on diagnostic protocol (Max 100 TU)
	Road test prior to service procedure	No allowance	0 TU
	Road test after service procedure	0121 0004	10 TU
	Technical diagnosis at dealer's discretion (Refer to Section 2.2.1.2 and Audi Warranty Online for DADP allowance details)		
Claim Comment:	As per TSB # 2045020/1		

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.

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Required Parts and Tools

Part Number	Part Description	Quantity
N 01152322	Spacer	2

Additional Information

All parts and service references provided in this TSB (2045020) are subject to change and/or removal. Always check with your Parts Department and service manuals for the latest information.