

Technical Service Bulletin



94 Daytime Running Light (DRL) inoperative

94 13 21 2032184/2 July 9, 2013. Supersedes Technical Service Bulletin Group 94 number 13-05 dated February 8, 2013 for reasons listed below.

Model(s)	Year	VIN Range	Vehicle-Specific Equipment
Q5	2013 - 2014	All	Audi Xenon Plus with LED Daytime Running Lights

Condition

REVISION HISTORY		
Revision	Date	Purpose
2	-	Revised <i>Warranty</i> (Corrected error in TUs) Revised header data (Added DTCs)
1	2/8/2013	Original publication

- Customer may report:
 - Daytime Running Light is completely inoperative.
 - Daytime Running Light is partially inoperative.
 - Multiple Daytime Running Light LEDs are inoperative.
- One or both of the following DTCs is stored in the central electrics control module, J519 (address word 09):
 - **DTC 02895** (Supply for Left LED Parking Lamp / DRL module) with fault symptom 12 (Electrical malfunction in circuit)
 - **DTC 02897** (Supply for Right LED Parking Lamp / DRL module) with fault symptom 12 (Electrical malfunction in circuit)

Technical Background

The MY2013+ Audi Q5 LED DRLs use light-emitting “pipes” instead of multiple, individual LEDs. There are two light pipes per headlight. Each light pipe uses a single LED for illumination (Figure 1).



Figure 1. Upper and Lower light pipe illuminated.

The LEDs are contained in a single module. There is a large heat sink affixed to the outer back side of each headlight housing.

The LED unit with heat sink utilizes a gasket and is keyed into the headlight housing to maintain proper alignment of the LED to each light pipe. The LED units (L176 and L177, left and right, respectively) are controlled via a control module (J860 and J861, left and right, respectively) located separately on the backside of the headlight (Figure 2). These LED units and LED control modules are electrically interchangeable from side to side, but the LED units are mechanically specific to each headlight side.

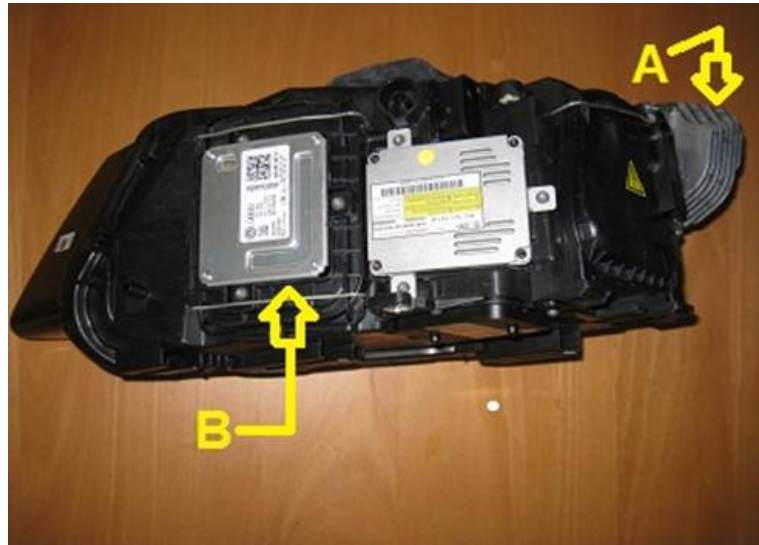


Figure 2. Backside of headlight with LED heat sink (A) and LED control module (B).

If the customer complaint is that the LED DRLs appear to be partially inoperative, please confirm this complaint while the customer is present. In most cases, the LED DRL is perceived as inoperative due to the viewing angle taken by the customer.

There are different angles from which a partial defect may be incorrectly perceived:

- A defect may be perceived for top-down viewing angle (Figure 3).

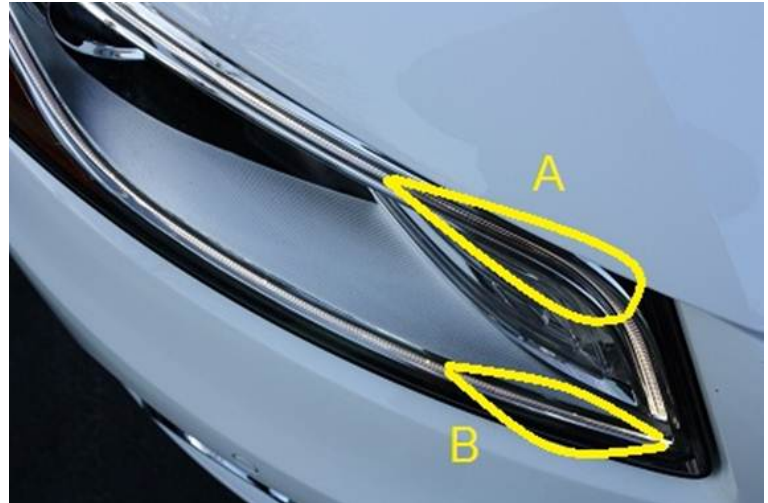


Figure 3. Upper light pipe perceived defect (A). Lower light pipe perceived defect (B).

- A defect may be perceived for corner viewing angle (Figure 4).



Figure 4. Upper light pipe perceived defect (A).

- A defect may be perceived for acute corner viewing angle (Figure 5).



Figure 5. Upper light pipe perceived defect (A, B). Lower light pipe perceived defect (C).

Production Solution

Not applicable.

Service

If it is determined that it is a perception issue:

Explain to the customer that the LED illumination appears differently to someone standing in front of the vehicle than it appears to oncoming traffic. The viewing angle of someone standing in front of the vehicle will give a visual effect of an LED DRL inoperative or partially-inoperative condition.

If it is not a perception issue, and the LED DRL is inoperative, follow the steps below:

1. With ignition off, remove DRL control module and check red connector at module. Secure it, if loose. If necessary, remove red connector and reinstall to be sure connector is engaged properly. The wire guide of the red terminal housing may impede connector engagement.
2. Turn ignition on to see if DRL is now operating to specifications. If it is not, proceed to step 3.
3. Remove headlight(s) according to the instructions in ElsaWeb. See *Repair Manual* >> *Electrical System* >> *Electrical Equipment* >> *94 Exterior Lights, Switches* >> *Removal and Installation*.
4. With ignition off, remove LED DRL unit with heat sink from headlight housing (Figure 6).

5. With ignition off, inspect and secure all electrical connectors, if loose. Remove and secure the white connectors, even if they do not appear to be loose.



Note:

Be extra careful with red surface mount connectors. In general, a repair kit is not available for any internal headlight connectors.



Figure 6: Dual surface mount LED unit exposed.

6. If the above steps do not correct the DRL operation, continue with further diagnosis on the LED control module and LED with heat sink before replacing the headlight housing; e.g., swapping modules from one headlight to another, inspect wiring, connectors, etc.

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Warranty

Claim Type:	Use applicable claim type. If vehicle is outside any warranty, this Technical Service Bulletin is informational only.		
Service Number:	9415		
Damage Code:	0010		
Labor Operations:	Air cleaner remove and reinstall	2425 1913	40 TU
	Front bumper cover remove and reinstall	6329 1900	90 TU
	Headlight assembly remove and reinstall	9415 1951	40 TU
	2 Headlight assembly remove and reinstall	9415 2051	70 TU
	2 Headlight assembly adjust	9415 1600	20 TU
Diagnostic Time:	GFF – Checking and clearing fault codes included in existing labor operations	0150 0000	Time stated on diagnostic protocol (Max 50 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 #2032184/2		

Additional Information

All parts and service references provided in this TSB (2032184) are subject to change and/or removal. Always check with your Parts Department and service manuals for the latest information.