Technical Service Bulletin

94 Headlight Warning on in Cluster (Xenon Plus With or Without Adaptive Light)

94 12 74 2029194/1 April 19, 2012.

Model(s)	Year	VIN Range	Vehicle-Specific Equipment
Audi Q7	2010 – 2012	000001 – 999999	Premium Plus or Prestige Option Packages

Condition

Only vehicles with Xenon headlights can be affected by this condition.

The customer complains the high beams do not function on one side or one of the low beams flickers intermittently. In addition to this, an “Adaptive Headlight Defective” warning can be present in the cluster if the vehicle has the Prestige trim level.

One of the following DTCs are set in the 09 – Central Electric Control unit or in the 55 – Headlamp Range Control unit depending on the trim level of the vehicle. Vehicles with the Premium Plus option package can have the DTC set in the 09 module. Vehicles with the Prestige option package can have the DTC set in the 55 module.

Vehicles with Premium Plus (Bi-Xenon Headlights – without Adaptive Light)

- 09 Electronic central electric - (02747) Solenoid switch for Bixenon (shutter) right - Open Circuit
- 09 Electronic central electric - (02748) Solenoid switch for Bixenon (shutter) left - Open Circuit

Vehicles with Prestige (Tri-Xenon Headlights with Adaptive light)

- 55 - Headlamp Range Control - (01534) Left Headlight Beam Adjusting Motor -V48-
- 55 - Headlamp Range Control - (01535) Right Headlight Beam Adjusting Motor -V49-
- 55 - Headlamp Range Control - (02988) Left/right handing traffic change-over active
- 55 - Headlamp Range Control - (02630) Voltage supply of Right Swivel Module Position Sensor
- 55 - Headlamp Range Control - (02631) Voltage supply of Left Swivel Module Position Sensor

Technical Background

One or more of the connectors inside the headlamp housing are disconnected fully or partially from the factory.

Production Solution

Not applicable.

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Service

1. Verify which side is affected based on the DTC or customer complaint and remove the affected headlamp per the instructions listed in the ElsaWeb Repair Manual.

   Repair Manual>>Electrical System>>94 Exterior Lights, Switches>>Removal Installation>>HID Headlamp, From MY 10

2. Remove the covers from the back of the headlamp housing.

3. Physically check all the connectors inside the headlamp housing for proper seating and visually inspect the locks to ensure they are fully engaged.

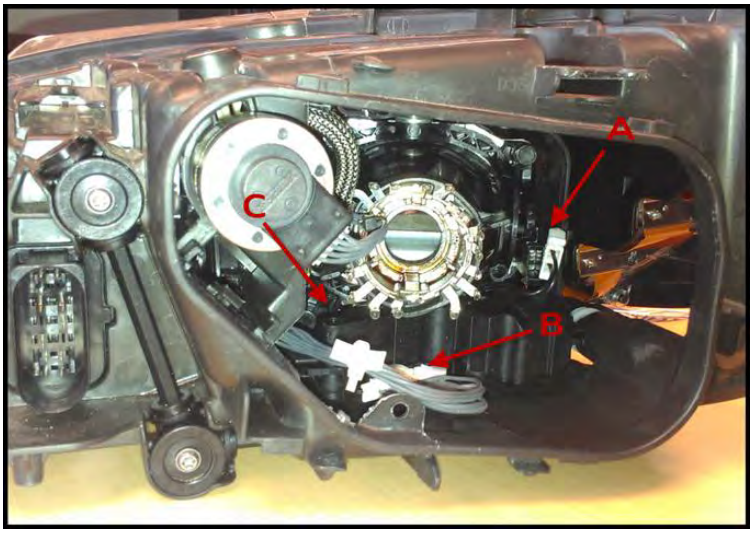

Figure 1. *Back of Tri-Xenon Headlight showing three connectors (Bi-Xenon) will only have a single "A" connector.*

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Connector “A” (Figure 2, A) can be seated but not fully engaged. When pushing on this connector the projector will swivel, thus you will need to hold the projector housing when applying pressure to the connector.

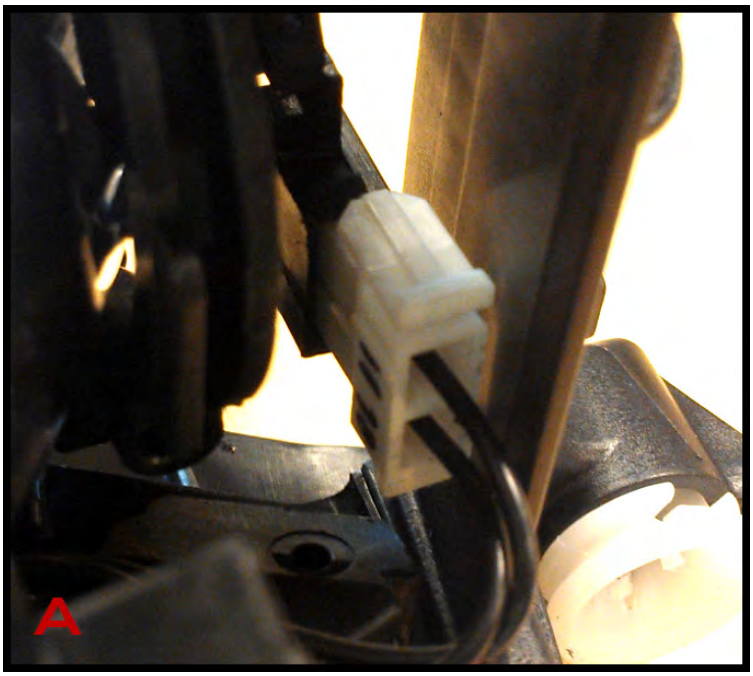

Figure 2. *Connector “A” shown not fully seated.*

Connector “B” (Figure 3, B) can be fully locked into place but it can be rotated 5-10 degrees off center. Thus, please check to ensure the harness connector is seated parallel to the connector housing on the headlamp.

Figure 3. *Connector “B” shown off center.*

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Connector “C” (Figure 4, C) is located behind the motor mechanism, which rests below the projector lens. This is a very small two-pin connector. Take care when wiggling this connector because if it becomes fully disconnected, it is very difficult and almost impossible to reconnect without using special tools. Place your finger, or a set of small bent pliers, on this connector and pull towards yourself to fully seat the connector.

Figure 4. *Connector “C” shown in the locked position.*

4. Ensure all the connectors are fully seated and locked. If a loose connector is found, skip step 5 and move to step 6.
5. If no loose connector is found and the issue still persists then the issue, is outside the scope of this TSB and the remaining steps can be skipped. A swap of headlamp components between left and right is the next logical step to narrow down the failed part of the headlamp.
6. Reassemble the headlamp and install it back in to the vehicle.
7. Clear the DTC and retest with low beams activated, high beams activated, and all turn signals activated.
8. If no DTCs return, test the headlamp functionality in the garage or parking lot but also perform a short road test and repeat the actuation of all headlamps functions while at a speed. To test the adaptive light function (if equipped) the vehicle will need to be driven at speed around a corner at a speed greater than 6mph.

Note:

It may be difficult to use the high beams while in traffic; therefore, please use caution and do not create an unsafe condition for you and your fellow drivers.

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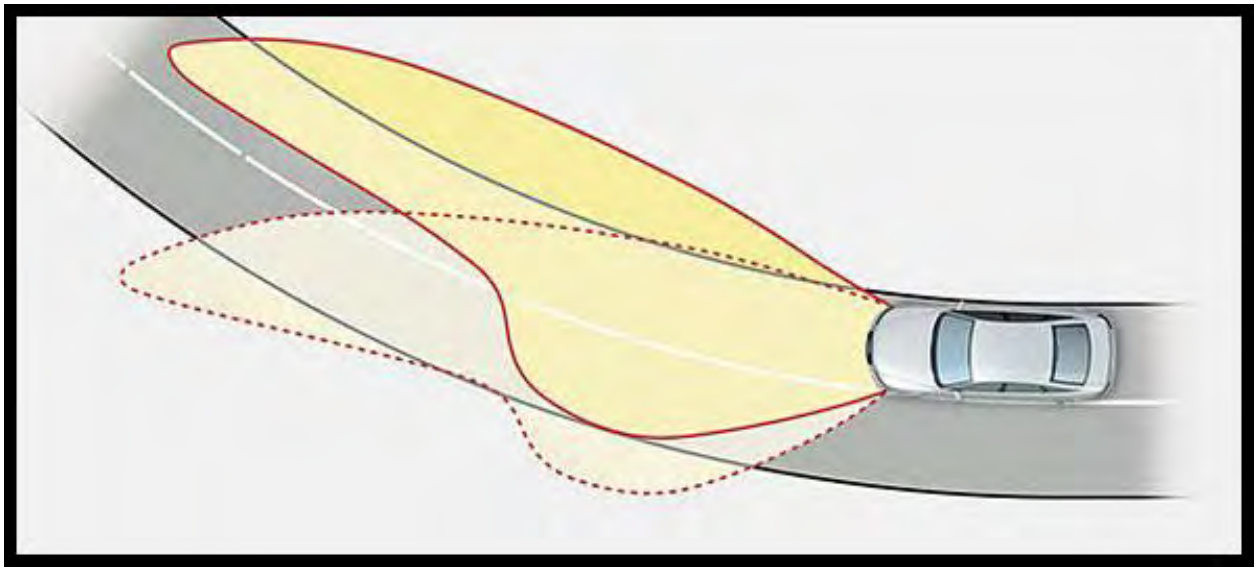

Figure 5. *Audi Adaptive Lighting illustration showing the maximum 15° curve of the light beam at speeds greater than 6mph.*

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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:	0040		
Labor Operations:	Remove and install headlight	9415 1901	40 TU
	Check headlight + Extended Road Test	9415 9999	30 TU
	-OR-		
	Remove and install 2 headlights	9415 2001	50 TU
	Check 2 headlights + Extended Road Test	9415 9999	40 TU
Diagnostic Time:	GFF – Checking and clearing fault codes included in existing labor operations	0150 0000	Time stated on diagnostic protocol (Max 30 TU)
	Road test prior to service procedure	0121 0002	10 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 #2029194/1		

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.

Additional Information

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

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