



Technical Service Bulletin

94 Exterior lights, moisture accumulation

94 17 91 2012749/13 July 31, 2017. Supersedes Technical Service Bulletin Group 94 number 15-65 dated April 17, 2015 for reasons listed below.

Model(s)	Year	VIN Range	Vehicle-Specific Equipment
All	1996 - 2019	All	Not Applicable

Condition

REVISION HISTORY		
Revision	Date	Purpose
13	-	Revised header data (Added model years) Revised <i>Condition</i> (Added photo) Revised <i>Technical Background</i> (Updated information) Revised <i>Service</i> (Added photos and updated procedure)
12	04/17/2015	Revised header data (Added model years)
11	10/24/2012	Revised <i>Service</i> (Added Q7 specific TSB)

Condensation is visible on the inside of the headlight, taillight, fog light, side marker light, front turn signal, daytime running lights, and/or third brake light lens (Figure 1).



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Figure 1. Condensation on the inside of the lights.

Technical Background

The headlight ventilation system allows air from the exterior of the assembly to pass through the headlights. This open water-protected ventilation system (which is needed for pressure compensation) creates different climate zones in the headlight: very warm areas, where the lens is warmed up by the light, and relatively cool areas, where the lens is cooled down by the airflow.

Considerable differences in humidity and temperature between the inside and the outside of the headlights, even when the car is being driven, can create condensation. While condensation is most common in cold and wet weather, it can also occur after a car wash, or when the temperature changes. Condensation is more visible on lenses made of clear glass than on lenses with patterns. The moisture does not affect the headlight function or light performance, and it does not lead to corrosion or damage of other headlight parts.



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Production Solution

Not applicable.

Service

Always check for TSBs that are specific to your vehicle configuration and specific customer concern. This TSB only provides a general overview when performing diagnosis, of moisture concerns which are internal to an exterior lighting assembly.

For Headlamp

1. The light emission surface (Figure 2A) of the main beam should be clear after driving 10 minutes with the main beam on.
 - Driving speeds must be consistently over 45mph for the ventilation system to properly function.
 - Residual condensation (Figure 2B) maybe present depending on ambient conditions, this is normal.



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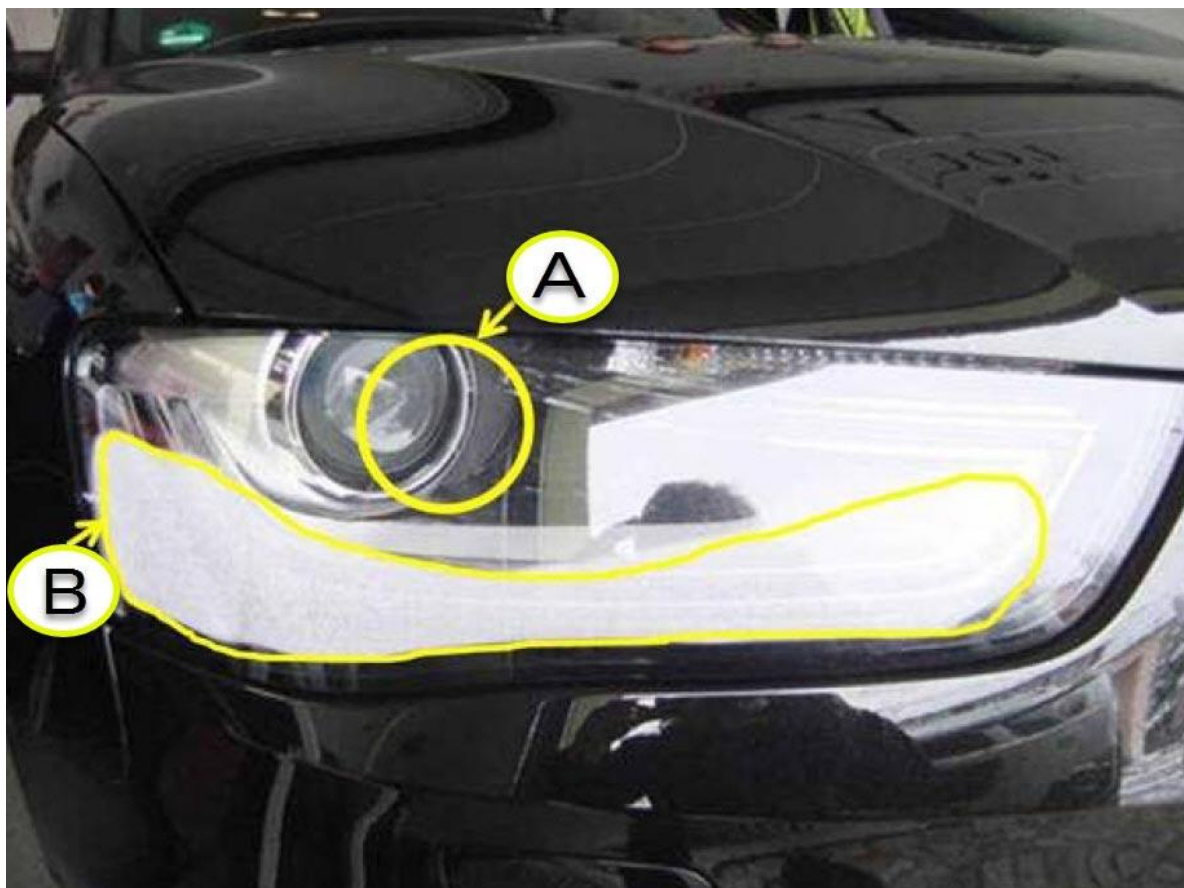


Figure 2. A: main beam light emission surface. B: Condensation of the headlamp.

2. If water drops or condensation are present on the light emission surface (Figure 3A) after performing step one, inspect the headlamp assembly for the root cause.
 - Missing Cover
 - Damaged Seal
 - Clogged Drain
 - Outside influence



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Figure 3. A: main beam light emission surface.

3. Perform repair:

- In cases where the headlamp assembly is not the root cause (clogged drain and/or missing access cover), dry the headlamp assembly with compressed air.
- Perform visual inspection of electrical connectors and any control modules attached to the headlight. If corrosion is found in one of these components, it must be repaired or replaced. Reference the repair manual for repair instructions.



Tip: It is helpful to take a photo before and after step 1 for visual comparison.

Warranty

This TSB is informational only and not applicable to any Audi Warranty.

Additional Information

All part and service references provided in this TSB (2012749) are subject to change and/or removal. Always check with your Parts Dept. and service manuals for the latest information.

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