



Technical Service Bulletin

94 Headlight moisture accumulation

94 17 86 2030960/2 February 14, 2017. Supersedes Technical Service Bulletin Group 94 number 12-89 dated September 25, 2012 for reasons listed below.

| Model(s) | Year | VIN Range | Vehicle-Specific Equipment |
|----------|-------------|-----------------|----------------------------|
| A8 | 2011 - 2012 | All | Not Applicable |
| A8 | 2013 | 000001 – 008813 | Not Applicable |

Condition

| REVISION HISTORY | | |
|------------------|------------|---|
| Revision | Date | Purpose |
| 2 | - | Revised <i>Warranty</i> (Corrected TU and updated Labor Operations) |
| 1 | 09/25/2012 | Initial publication |

Customer states:

- Condensation is visible on the inside of the headlight lens.
- The condensation disappears only after extended drives (greater than 10 minutes).

Technical Background

Humid air settles on the inside of the glass, causing moisture to appear on the inside of the headlight lens. Because of the headlight circulation system, outside air is allowed to flow through the headlight. The open, water-protected ventilation system (needed for pressure compensation) creates different "climate zones" inside the headlight, where the lens are either warmed up by the light or cooled down by passing air.

When high air humidity and temperature differences exist between the inside of the headlights and the outside, condensation can form on the inside of the lens, especially in cold and wet weather. The moisture in the headlamps can be compared with condensation on the windshield, which is cleared by the "defroster vent". This moisture buildup can happen for example: after a car wash, after steam cleaning of the engine or the front end, or after overnight temperature changes.

This condition is more easily visible with headlights made from clear glass. The moisture is an optical condition which DOES NOT affect the headlamp function (light performance) and does not lead to corrosion nor does it lead to damage of the internal headlamp parts.

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Production Solution

Optimized headlight ventilation hose and adapter.

Service

For an effective repair it is necessary to distinguish between the following two scenarios:

1. Condensation, for example, during in the rain or through a car wash. Also, described as “steaming up” or “fogging”.



Figure 1. Example of a headlight with condensation inside the lens.

2. Water leaking into the headlight assembly.



Figure 2. Example of a headlight with a leaking condition.

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For headlights with condensation, prior to VIN CN008281:

1. Remove and dry out the headlight(s) with compressed air (less than 30 PSI).
2. Replace the ventilation hose (Figure 3, 1) and adapter (Figure 3, 3) on both sides and attach it to the mounting (Figure 3, 2). Use the part numbers indicated in the Parts table below.

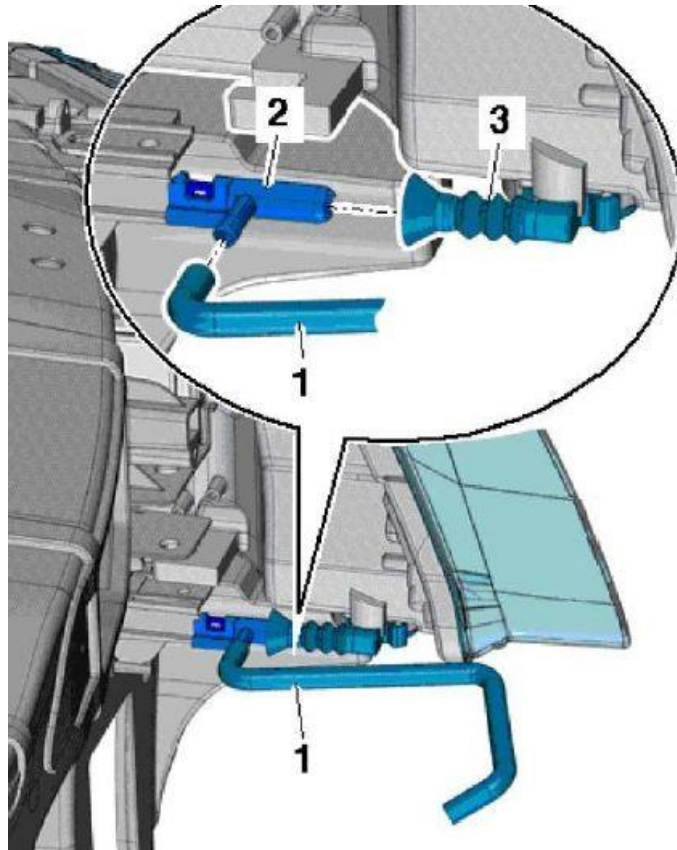


Figure 3. Illustration of the ventilation components.

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3. It is not necessary to use the membrane from the original adapter.



Note:

Use caution when reinstalling the headlight to assure the adapter is properly seated.

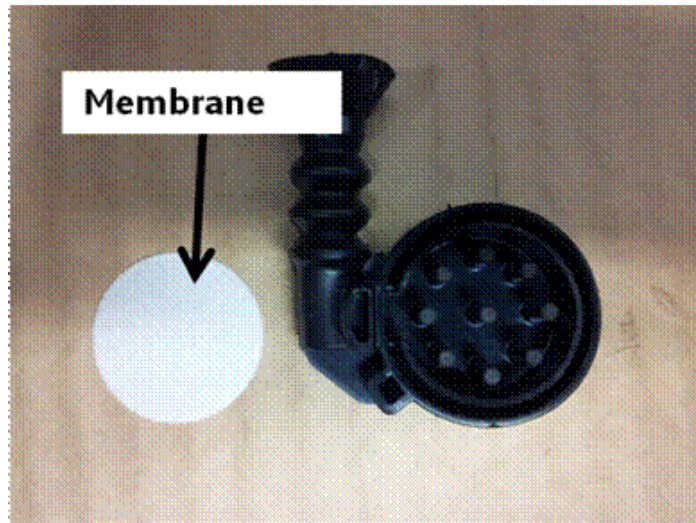


Figure 4. Membrane from original adapter.

For headlights with condensation, after VIN CN008281:

1. Remove and dry out the headlight(s) with compressed air (less than 30 PSI).

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2. Replace the ventilation hose (Figure 5, 1) on both sides and attach it to the mounting (Figure 5, 2). Use the part numbers indicated in the Parts table below.



Note:

Use caution when reinstalling the headlight to assure the adapter is properly seated.

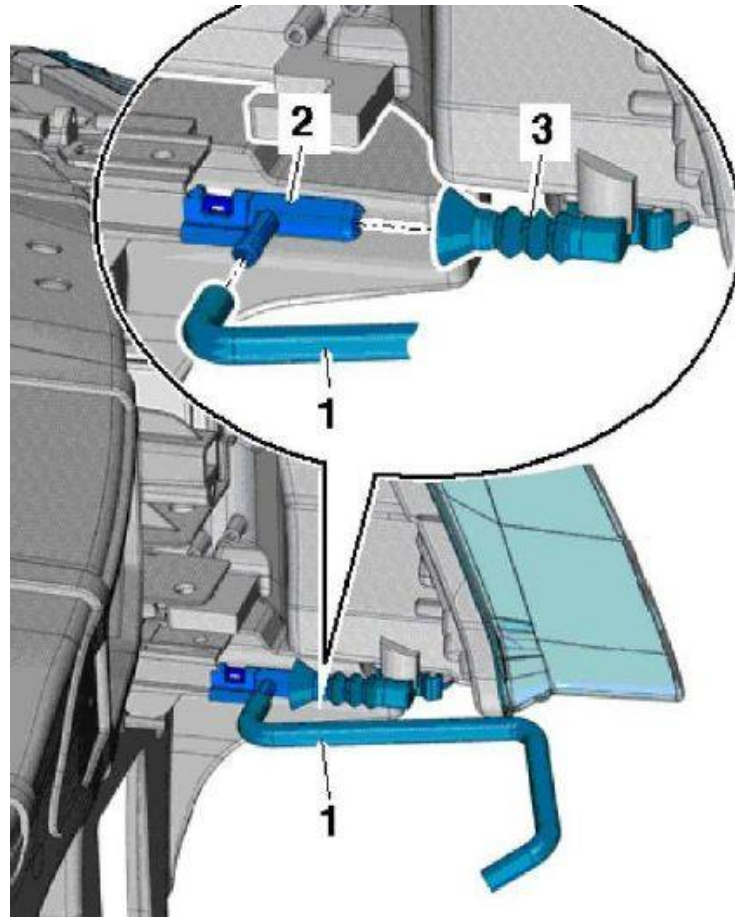


Figure 5. Illustration of the ventilation components.

For headlights with a leaking condition, prior to VIN CN008281:

When replacing the headlight, follow the headlight condensation repair instructions above using a new ventilation hose (Figure 3, 1) and adapter (Figure 3, 3) according to the Parts table below. Route the new ventilation hose behind the bumper carrier.

For headlights with a leaking condition, after VIN CN008281:

When replacing the headlight, follow the headlight condensation repair instructions above using a new ventilation hose (Figure 3, 1) on both sides according to the Parts table below. Route the new ventilation hoses behind the bumper carrier.



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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: | 9415 | | |
| Damage Code: | 0050 | | |
| Labor Operations: | Headlight modification, Xenon, or LED: | | |
| | Repair headlight, one side | 9415 4199 | 50 TU |
| | -OR- | | |
| | Repair headlight, both sides | 9415 4299 | 70 TU |
| | Headlight replacement, Xenon: | | |
| | 1 Headlight assembly remove + reinstall | 9415 1900 | 30 TU |
| | 2 Headlight assembly adjust | 9415 1600 | 20 TU |
| | 1 Headlight assembly replace | 9415 5550 | 20 TU |
| | -OR- | | |
| | 2 Headlight assembly remove + reinstall | 9415 2000 | 40 TU |
| 2 Headlight assembly adjust | 9415 1600 | 20 TU | |



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| | | | |
|-------------------------|--|--------------|--|
| | 2 Headlight assembly replace | 9415 5650 | 30 TU |
| | Headlight replacement, LED | | |
| | 1 Headlight assembly remove + reinstall | 9415 1900 | 30 TU |
| | 2 Headlight assembly adjust | 9415 1600 | 20 TU |
| | 1 Headlight assembly replace | 9415 5551 | 70 TU |
| | -OR- | | |
| | 2 Headlight assembly remove + reinstall | 9415 2000 | 40 TU |
| | 2 Headlight assembly adjust | 9415 1600 | 20 TU |
| | 2 Headlight assembly replace | 9415 5651 | 130 TU |
| Diagnostic Time: | GFF – Checking and clearing fault codes included in existing labor operations | 0150 0000 | Time stated on diagnostic protocol (Max 70 TU) |
| | Road test prior to service procedure | No allowance | 0 TU |
| | Road test after service procedure | No allowance | 0 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 #2030960/2 | | |



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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

| Part Number | Part Description | Quantity |
|-------------|------------------------------|----------|
| 4H0941717B | Ventilation hose, left side | 1 |
| 4H0941718B | Ventilation hose, right side | 1 |
| 4H0941109A | Hose adapter, left side | 1 |
| 4H0941110A | Hose adapter, right side | 1 |

Additional Information

The following Technical Service Bulletin(s) will be necessary to complete this procedure:

- TSB 2012749, *94 Exterior lights, moisture accumulation*.

All parts and service references provided in this TSB (2030960) are subject to change and/or removal. Always check with your Parts Department and service manuals for the latest information.

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