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## Headlamps fogged

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Topic number	LI82.10-P-062051
Version	1
Design group	82.10 Exterior lights
Date	08-14-2015
Validity	Model series 222 with SA code 640 / 641 / 642 (Headlamps with LED, dynamic) Model series 205 with SA code 640 / 641 / 642 (Headlamps with LED, dynamic) Model series 217 Model series 218 with SA code 621 / 632 / 805
Reason for change	Model series added

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### Complaint:

Lamp unit fogged or droplets forming.

### Cause:

Because of the housing cover with pressure compensation membrane, the lamp unit is a "closed system". This means that the lamp unit is protected against acid gases, dirt and exhaust gas. However, moisture can still enter from two sources.

Through absorption and desorption (the commonest cause) or through permeation.

Moisture is either absorbed by the plastic material and, when the light source is switched on, it is released from the plastic by desorption, or the moisture penetrates through the plastic materials of the headlamp from outside (permeation).

This can lead to the formation of condensation on the lens of the headlamp

### Remedy:

Check housing cover of lamp unit for natural fogging or condensation as per GI82.10-P-009047.

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1. If a reduction in the degree of fogging is visible, the desiccant packs can be used once the condensation has completely evaporated.
2. If no reduction in the degree of fogging is visible, the lamp unit is defective and must be replaced.

On the new lamp unit, the service cover with desiccant pack must be installed.

Since the replacement headlamps are not supplied with control units, use the control units from the headlamp with condensation.

Make sure that the contacts of the old control unit are undamaged and dry.

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### Note:

Residual fogging is possible due to the laws of physics and is OK.

Fogging does not impair the functionality or the service life of the lamp unit.

Desiccant packs must always be used in both lamp units.

Install basket with desiccant pack and replace pressure compensation membrane.

1. Remove headlamp control unit [Figure 1].
  2. Place desiccant pack in basket and close [Figure 2].
- Note: One desiccant pack is required for each headlamp.
3. Place basket in headlamp [Figure 3] and reinstall control unit.
  4. The membrane already in the headlamp [Figure 1] must be replaced by a new membrane (the membrane is packed in the separate bag).

Note: The bonding surface must be clean and dry.

Attachments	
File	Description
Bild 2.jpg	Folding basket: [ 1] Desiccant pack [ 2] Closed folding basket
Bild 3.jpg	[ 1] Folding basket installed
Bild 1.jpg	Headlamp: [ 1] Control unit [ 2] Membrane

Parts						
Part number	ES1	ES2	Designation	Quantity	Note	EPC
A 000 826 13 00			LCU folding basket, right	1		X
A 000 826 12 00			LCU folding basket, left	1		X
A 000 826 16 00			Desiccant pack	2		X