

## Headlamps fogged

Topic number	LI82.10-P-063240
Version	2
Design group	82.10 Exterior lights
Date	05-02-2016
Validity	Model series 117, model series 176 with SA code: 631, 632 Model series 212 SA code: 640, 641, 642 X253, model series 213 with SA code: 631, 632, 640, 641, 642
Reason for change	Model designation adapted
Reason for block	

### 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 dew as per LI82.10-P-050139.

If a reduction in the degree of fogging is visible, the desiccant packs can be used once the condensation has completely evaporated.

1. Remove lamp unit
2. Cut open housing of lamp unit on inside of web (Figure 01), along depression, using hot knife (000 588 03 84 00).

Note: Risk of injury with burns to skin and eyes, risk of poisoning from inhaling vapors when working with plastics.

3. Place desiccant pack in new service cover and bolt down (Figure 02)
4. Stick existing membrane onto surface provided
5. Attach service cover with desiccant pack to headlamp
6. Reinstall lamp unit.

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

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.

Attachments	
File	Description
Bild_02.jpg	1) Service cover for desiccant pack 2) Desiccant pack

# XENTRY TIPS

	3) Threaded connection
Bild_01.jpg	Lamp unit, model series 212

<b>Symptoms</b>
Overall vehicle / Lighting / Exterior lights / Driving lights / Main headlamps / Fogged

<b>Parts</b>						
Part number	ES1	ES2	Designation	Quantity	Note	EPC
A 000 826 16 00			Desiccant pack	1		X
A 000 826 10 00			Large service cover	1	For model series 212	X
A 000 826 09 00			Small service cover	1	For model series 176; 117; 213; X253	X
A 000 826 20 00			Masking tape	1		X

<b>Operation numbers/damage codes</b>				
Op. no.	Operation text	Time	Damage code	Note
			82B01 Y1	Left
			82P01 Y1	Right
82-4730	R&R LAMPS			
82-0000	MODIFY BOTH FRONT LAMPS	MAX 1.0		

<b>Attachments</b>
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# XENTRY TIPS

Bild\_02.jpg:



Bild\_01.jpg:

