

## Fogged Headlamp With Desiccant Pack Installed - Open Ventilation System

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Topic number	LI82.10-P-078302
Version	1
Function group	82.10 - Exterior lights
Date	9/9/24
Validity	Service cover small:  Model series 246 facelift with code: 613, 620  Model series 204 with code: 613, 620  Model series 205 before facelift with code: 613, 620  Model series 117 before facelift with code: 613, 620  Model series 172 before facelift with code: 613, 620, 621, 622  Model series 218 before facelift with code: 614, 615, 616, 618  Model series 216 with code: 621, 622  Service cover large:  Model series 176 with code 613, 620  Model series 177 with code 613, 620  Model series 242 with code 613, 620, 614, 615, 616, 618, 621, 622  Model series 246 before facelift with code: 613, 620, 614, 615, 616, 618, 621, 622  Model series W247 with code: 613, 620  Model series 204 with code: 614, 615, 616, 618, 621, 622  Model series 118 with code: 613, 620  Model series 219 with code: 613, 620, 614, 615, 616, 618  Model series 211 code: 613, 620, 614, 615, 616, 618, 621, 622  Model series 212 before facelift with code: 614, 615, 616, 618, 621, 622  Model series 213 before facelift with code: 613, 620

Model series 207 before facelift with code: 614, 615, 616, 618, 621, 622

Model series X247 with code: 613, 620

Model series X204 facelift with code: 613, 620, 614, 615, 616, 618, 621, 622

Model series 164 with code: 613, 620, 614, 615, 616, 618

Model series 166 with code: 613, 620

Model series 292 with code: 613, 620

Model series 221 before facelift with code: 613, 620, 621, 622

Model series 221 facelift with code: 614, 615, 616, 618, 621, 622

Model series 171 with code: 613, 620, 614, 615, 616, 618

Model series 251 before facelift with code: 613, 620, 614, 615, 616, 618, 621, 622

Model series 232 with code: 631, 632, 640, 641, 642, 316, 317, 318

Reason for change

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## Complaint

Headlamps fogged or droplets forming.

## Cause

Due to its outlet openings, the headlamp is an "open system".

This means that acidic gases, moisture, dirt and exhaust gases can penetrate into the headlamp.

This can lead to the formation of condensation on the lens of the headlamp. The headlamps comply with all applicable US standards and regulations.

## Remedy

Check housing cover of lamp unit for natural fogging or condensation as per LI82.10-P-078301.

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

Note: Order service covers and desiccant packs based on the validity description.

1. Remove headlamps.
2. Remove all grommets from outlet openings.
3. Seal vent openings with sealing profile.

# XENTRY Tips

Important: All openings must be sealed carefully for the pressure compensation diaphragm to work properly!

4. Remove existing service cover.
5. Place desiccant packs into the new service covers and bolt down (Picture\_01).
6. Glue the new diaphragm onto the intended surface at the service cover (Picture\_02).

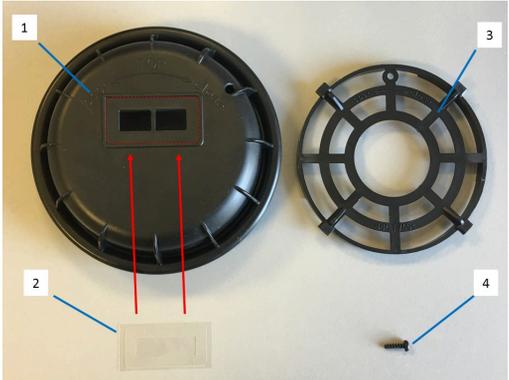
Note: The bonding surface must be clean and dry.

7. Attach service cover with desiccant pack at headlamp.
8. Install headlamp.

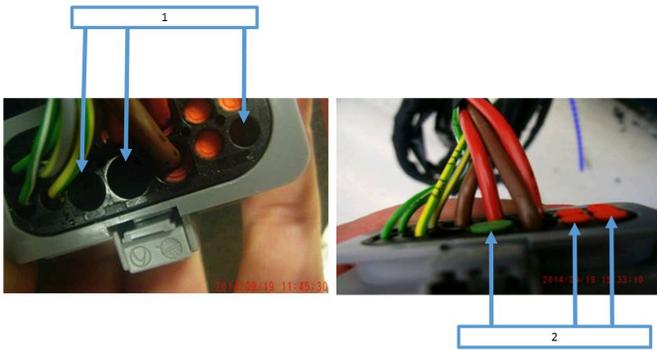
To ensure that the desiccant pack (absorption) acts effectively, the headlamp has to be air-sealed.

Observe or check the following points for this:

1. Seals at the central connector must all be present and correctly fitted (Picture\_03).
2. The new transparent diaphragm must be correctly bonded (Picture\_04).
3. Check headlamp housing for any external damage.

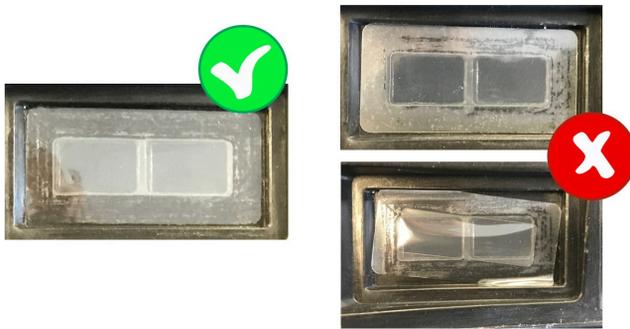
Attachments	
File	Description
<a href="#">Bild_01.jpg</a> 	1) Service cover for desiccant pack 2) Desiccant pack 3) Threaded connection
<a href="#">Bild_02.jpg</a> 	1) Service cover 2) Diaphragm 3) Grille 4) Screw

Bild\_03.jpg



1) Missing seals in central connector 2) Incorrectly fitted seals in central connector

Bild\_04.jpg



Bonding position of the transparent diaphragm

## Disclaimer

NOTE: The information contained in this document is intended for use by trained, professional technicians with the knowledge to properly and safely perform diagnosis and repairs on Mercedes-Benz vehicles, using Mercedes-Benz approved tools and equipment. It informs service technicians about conditions that could occur in certain vehicles and provides information that could assist in proper vehicle diagnosis, service, or repair. It does not indicate that a defect is present in any vehicle referenced in this document nor does it imply warranty coverage. DO NOT assume that a symptom or condition, or a described cause of a symptom or condition, affects any particular vehicle or groups of vehicles, or that a described repair applies to any particular vehicle or groups of vehicles. There can be multiple causes resulting in the same or similar symptoms or conditions described in this document, and trained professional service technicians must use their diagnostic skills to make evaluations on a case-by-case basis. The information contained in this document does not guarantee warranty coverage nor does it extend the vehicle's warranty in any way.

### Symptoms

Lighting > Exterior lights > Driving lights > Main headlamps > Fogged

### Parts

Part number	ES1	ES2	Designation	Quantity	Note	EPC
A0008260900			Small service cover	1	Including diaphragm	X
A0008261000			Large service cover	1	Including diaphragm	X
A0008261600	11		Desiccant pack (20g)	1	Desiccant pack per service cover	X
A005989127111			Sealing profile	1		X

# XENTRY Tips

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Operation numbers/damage codes				
Op. no.	Operation text	Time	Damage code	Note