

REPAIR OF LCM ON A E39 –1997

Symptoms

Does one of your Main beam light stay on when you have locked your car ?

Do you have no lights at all on one side.

This problem is caused by a short circuit or interruption of an internal transistor in the LCM.

You will require the following tools.

8mm cage or key for removing the LCM

Solder station.

Unloader copperplated

Soldering wire

New component :

BTS426L1: MOSFET, PROTECTED TO-220/5. Part nr: 548-686 hos Farnell in one. <http://uk.farnell.com/jsp/endecaSearch/partDetail.jsp?SKU=548686>

VERY IMPORTANT !!!

The Mosfet transistor is very sensitive to static electricity so use ESD protection (system of earthing yourself whilst soldering), damage to the transistor may show up at a later date otherwise.

That's why its important to use a solder station and not a cheap soldering iron.

Procedure for a LHD car.

- 1) Disconnect the battery cables
- 2) You will locate the LCM under the right trim panel picture 1.
- 3) You need an 8mm tool to unscrew the LCM
- 4) Disconnect the 3 connectors on the LCM.
- 5) Open up the LCM.
- 6) Open the tension clips which hold the transistors against the cooling flange.
- 7) Unscrew the cooling flange
- 8) Remove the cooling flange carefully from the effect transistors.
- 9) The transistor is soldered on both sides.
- 10) Remove the transistor using the appropriate listed equipment with caution.
- 11) Solder in the new transistor
- 12) Replace everything as a reversal of the removal procedure.

If you don't want to do this by yourself, go to an electronic repair shop and let them order the transistor for you so that they can carry out the work.

Picture 1.
LCM is located on the right side on a LHD car
You see the 3 connectors to the LCM.



Picture 2.
Here is the LCM



Bild 3.
Here is the cover off.



Cooling flange

Picture 4.

Here is the tensionclips and cooling flange been taking away.

The effecttransistors fore Right and Left High beam has been unsoldered



Tensionclips.

R.Highbeam.

Picture 5.

The other side look like this.



Picture 6

LCM partnumber.



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Translation to english Hasso Crew on www.autopower.se



To view this page online please visit: <http://uk.farnell.com/jsp/endecaSearch/partDetail.jsp?sku=548686>

Order Code: **548686**

Manufacturer: **INFINEON**

Manufacturer Part Number: **BTS426L1.**

Description:

MOSFET, PROTECTED TO-220-5

- Transistor type:Protected MOSFET
- Transistor polarity:N Channel
- Voltage, Vds max:34V
- Case style:TO-220-5
- Current, Id cont:7A
- Power, Pd:75W
- Resistance, Rds on:0.05R
- Current limit, max:20A
- Pins, number of:5
- Power dissipation:75W
- Power, Ptot:75W
- Resistance, Rds on max:60mR
- Temperature, current:25°C
- Temperature, full power rating:25°C
- Transistors, number of:1
- Voltage, ESD breakdown:1kV
- Voltage, supply:40V



Image is for illustrative purposes only. Please refer to product details.

Availability: **In Stock**

RoHS Compliance:

Pack Size: 1

Order Multiple Quantity: 1

Quantity	Price
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25 - 99	£2.39
100 - 249	£2.02
250 - 499	£1.38
500 +	£1.34

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