

Intake air manifold leaking

E31, E38, E39 with M62

Situation:

Leaks in the intake air manifold can adversely affect the idling characteristics of the M62 engine. The fault entry 27 and/or 35 with the fault type "Mixture at the Lambda oxygen sensor too lean" is stored in the DME fault memory. In such cases, the "Check engine" lamp will light up on US vehicles.

Leaks can occur

- at the gaskets between the manifold and the cylinder heads due to the different thermal expansion characteristics of the different components
- at the vacuum connections on the rear end cover of the manifold due to porous sealing caps or connections

Affected vehicles:

E31, E38, E39 with M62 engine

Manufacturing period: Start of series production up to October 1997

Action:

In the event of a **customer complaint**, the gaskets between the manifold and cylinder heads and the sealing caps on the vacuum connections on the rear end cover of the manifold should be replaced. In addition, the sealing cap and the vacuum connection for the fuel pressure regulating valve should be secured with a retainer ring.

Procedure:

1. Remove the intake air manifold
Please refer to repair instructions 11 61 050
2. Replace the sealing cap (1) on the vacuum connection and secure it with a retainer ring (2) (please refer to Fig. 1)
3. Secure the fuel pressure regulating valve vacuum hose with a retainer ring (2) (please refer to Fig. 1)

Note:

The retainer rings (2) should be fitted so that the lugs on the retainer rings point downwards and sit against the sealing cover

4. Renew the sealing cap (3) on the vacuum connection (E31 only) (please refer to Fig. 1)
5. Install the intake air manifold using new gaskets

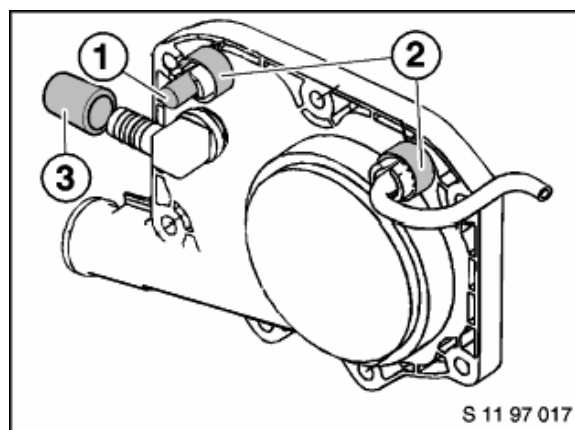


Fig. 1: Sealing cover on manifold, rear

Parts:

Description	Part number	Quantity
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Gasket	11 61 1 433 328	4
Sealing cap	11 61 1 437 610	1
Retainer ring	11 61 1 437 456	2
Gasket	11 61 1 729 727	1
O-ring	13 54 1 747 475	1
O-ring	11 15 1 736 140	1
Cap (E31 only)	11 61 1 747 085	1
Pipe (E31 only)	13 53 1 741 191	2
Pipe (E38 only)	13 53 1 742 211	1
Clamp (E38 only)	13 31 1 703 387	4

Reimbursement:

Material and labour costs incurred can be claimed through the usual warranty channels subject to current warranty terms.

Defect code

11 61 90 48 00

Renewal of gaskets on intake air manifold

Job number

00 51 323

Labour

28 FRUs E31
22 FRUs E38
23 FRUs E39

Warranty type

1

Warranty stage

1 (within vehicle warranty)
2 (outside vehicle warranty)

Reimbursement is limited to **36 months/ 100,000 km** and only possible until **December 1998** .