

Dealer Principal	New Vehicle Sales	Marketing	Used Vehicle Sales	Service	Parts & Accessories	Administration
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BMW Service Information

Brakes



Campaign: Check & if necessary replace brake vacuum lines, brake booster & master cylinder.

E6x E65 E66 E67 N62 N62T N73.

Situation

Engine oil from the brake vacuum pump may enter the brake vacuum line, in some cases it is possible after a period of time that the oil may enter the brake booster.

Effect

Engine oil which has entered the brake booster may damage the internal rubber membrane. In individual cases, the membrane may develop leaks and the brake power assistance system is impaired. It is then only possible to slow the vehicle with an increased level of brake pedal pressure.

Vehicles concerned

E6x E65 E66 E67 N62 N62T N73. According to VIN selection (28.08.2001 - 30.11.2009)
See the BMW intranet for a full chassis number listing.

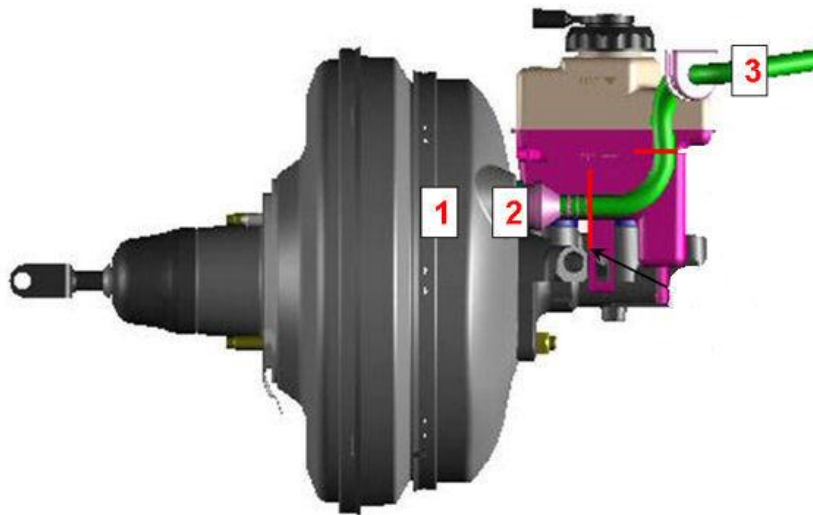
Measure

1. Check and replace the brake booster vacuum line at the non-return valve upstream of the brake booster for contamination by engine oil.
2. In the event of engine oil contamination at the opening of the non-return valve upstream of the brake booster, the brake booster and the brake master cylinder must be replaced in addition to the vacuum line.

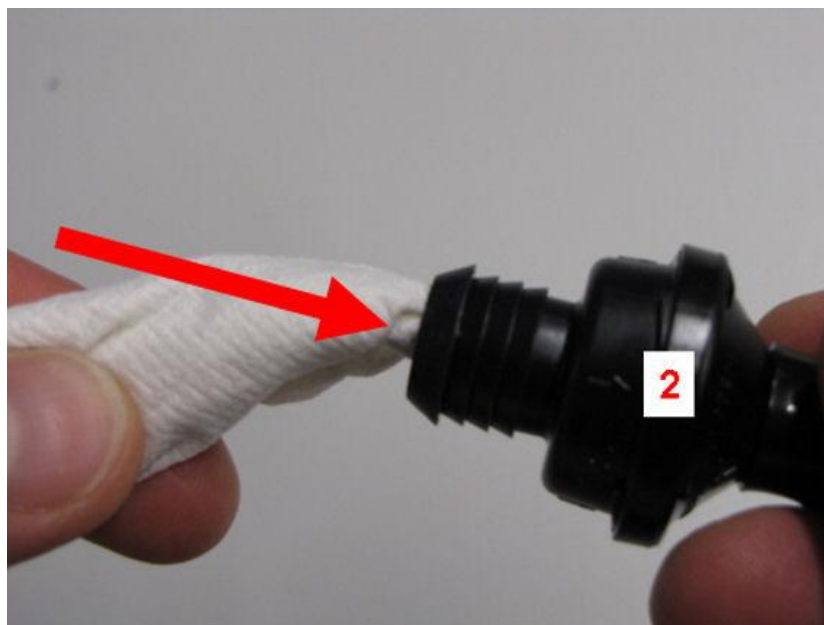
Note: Only in approx. 10 % of all cases is it necessary to also replace the Brake Booster (BKV) and the Brake Master Cylinder (THZ).

Procedure

1. Check and replace vacuum line



Pull off the brake vacuum line **(3)** together with the non-return valve **(2)** from the connection to the brake booster **(1)** and introduce a non-reusable paper towel similar to Wypall L20 (BMW part number 83 19 0 441 879) into the opening (see arrow) of the non-return valve. Dealers should order 1 roll of paper towel, which will cover may repairs.



If the non-reusable towel shows **no clear oil contamination**, **only the vacuum line** needs to be replaced with the new version of the part and the vehicle can be reassembled.

To replace the vacuum line, please proceed as recommended in Repair Instructions **RA 34 33 071**

Replace vacuum hose for brake booster (N62, N62T, N73).

If the vacuum line on the connection piece to the brake booster shows signs of **noticeable oil contamination**, then proceed as described in 2. below.

Remarks from Thies: It may also be dried oil ...

2. Replace the brake booster and brake master cylinder

If there is **noticeable oil contamination (6)** to the vacuum line on the connection piece to the brake booster, then in addition to the vacuum line, replace the brake booster and the brake master cylinder.

Note: the brake vacuum pump is not to be replaced. The additional valve in the brake vacuum line (BUDL) will ensure that no new oil enters the brake vacuum line (BUDL)

To replace the brake booster, please proceed as recommended in **RA 34 33 505 Remove and refit / replace brake booster**.

To replace the brake master cylinder, please proceed as recommended in **RA 34 31 505 Remove and refit / replace brake master cylinder for DSC**.



Parts

Part number	Description	Quantity
11 15 1 726 339	Vacuum pump hose clip	1 (all types)
34 33 1 161 985	Brake booster vacuum line seal	1 (E65 E66 E67)
34 33 1 158 929	Sealing ring for brake booster vacuum line	1 (E60 E61 E63 E64)
34 33 6 797 657	Brake force amplifier	1 (E65 E66 E67)
34 33 6 797 659	Brake force amplifier	1 (E60 E61 E63 E64)
34 33 6 753 979	Brake force amplifier seal	1 (all types)
34 33 6 797 650	Master brake cylinder	1 (E65 E66 E67)
34 33 6 797 658	Master brake cylinder	1 (E60 E61 E63 E64)
11 66 7 611 340	Vacuum line	1 (E65 E66 E67 N73 RHD)
11 66 7 611 338	Vacuum line	1 (E65 E66 E67 N62 N62T RHD)
11 66 7 611 335	Vacuum line	1 (E60 E61 E63 E64 RHD)

Special defect code: 00 34 86 01 00

Job number	Description	Labour
	Flat rate units depending on vehicle type	
00 59 055	Check and replace vacuum line	E60, E61 7 FRUs; E63, E64 9 FRUs; E65, E66, E67 10 FRUs; E65, E66, E67 N73 13 FRUs
00 59 056	Check / replace vacuum line and replace brake booster and brake master cylinder	E60, E61 29 FRUs; E63, E64 manual gearbox 30 FRUs; E63, E64 automatic transmission 29 FRUs; E65, E66, E67 32 FRUs; E65, E66, E67 N73 37 FRUs

The brake fluid required for topping up to the correct level can be billed at the net price under outside service code 04.

Only one of the job numbers listed may be billed.

Stuart Hartley
Service Operations Manager