


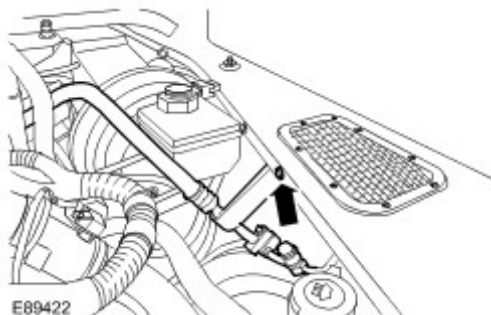
Specifications

Description	Nm	lb-ft
Brake vacuum pump bolts	23	17
Brake booster nuts	14	10
Brake master cylinder nuts	26	19

Brake Booster (70.50.01)

Removal

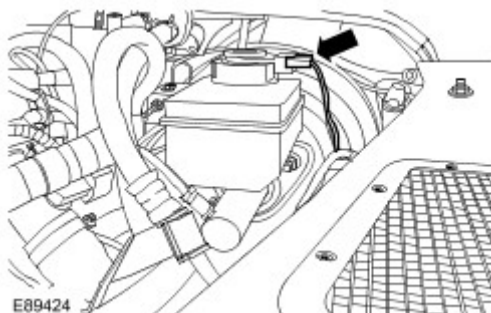
- 1 . Disconnect the battery ground cable.
For additional information, refer to [Battery Disconnect and Connect](#)
- 2 . Release the air conditioning (A/C) high-pressure pipe.
 Remove the bolt.




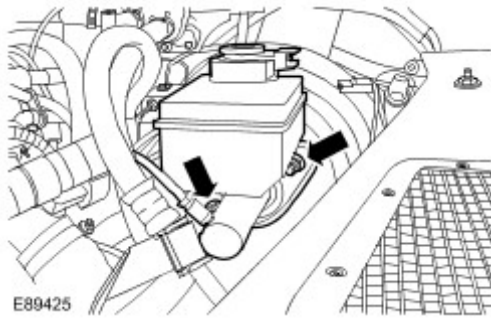
- 3 . Release the brake booster vacuum hose.



- 4 . Disconnect the 2 electrical connectors from the brake fluid low level warning indicator.



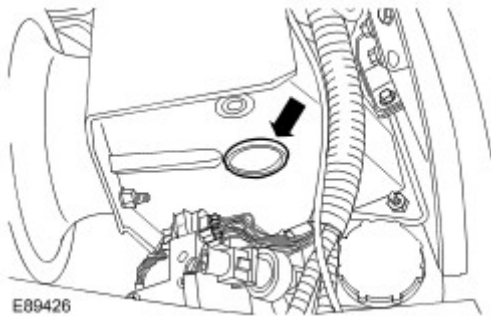
- 5 . Release the brake master cylinder.
 Remove the 2 nuts.



6 . **NOTE:**

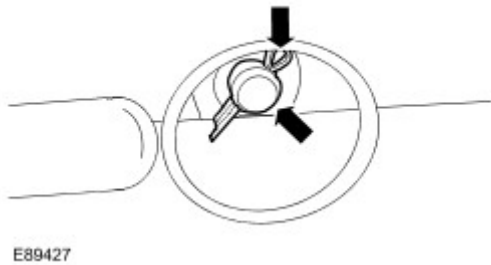
RH shown, LH similar.

Remove the 2 grommets from the brake pedal box.



7 . Remove the brake booster clevis pin.

➤ Remove and discard the split pin.

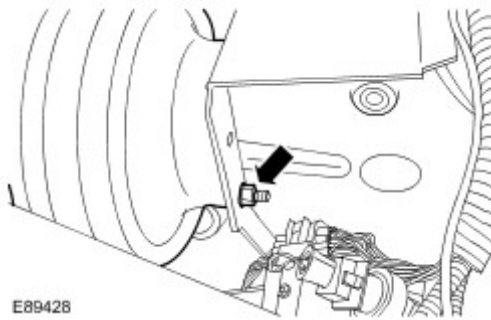


8 . **NOTE:**

RH shown, LH similar.

Remove the brake booster.

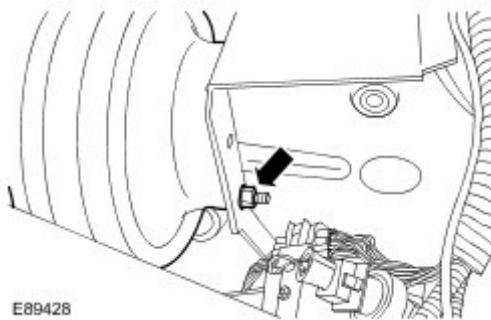
➤ Remove the 2 nuts.



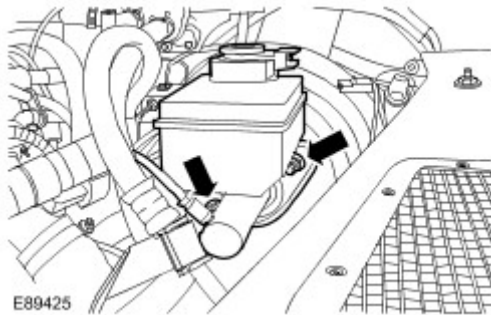
Installation

- 1 . To install, reverse the removal procedure.

➤ Tighten to 14 Nm (10 lb.ft).



- 2 . Tighten to 26 Nm (19 lb.ft).

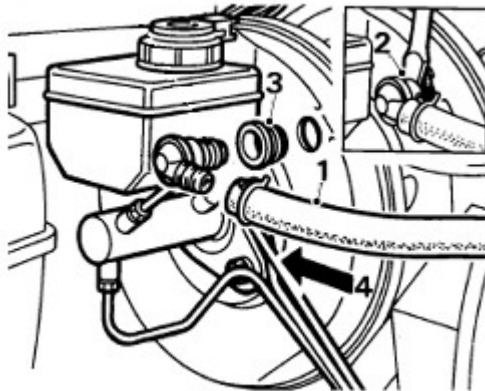


- 3 . Connect the battery ground cable.
For additional information, refer to [Battery Connect](#).

Brake Booster Non-Return Valve

Removal

- 1 . Disconnect brake vacuum hose from booster non return valve.
- 2 . Carefully prise valve out with a screwdriver blade between valve and grommet. Take care not to exert too much pressure on the vacuum chamber.
- 3 . Remove rubber grommet but be careful not to allow it to fall into the vacuum chamber.
- 4 . Check the valve for correct operation; it should not be possible to pass air through into the booster in direction of arrow. Do not use compressed air.



E82218

Installation

- 1 . Install rubber grommet.
- 2 . Smear ribs of the valve with Lucas Girling rubber grease to assist assembly, and push valve fully home.
- 3 . Connect vacuum hose to the valve.
- 4 . Road test vehicle.

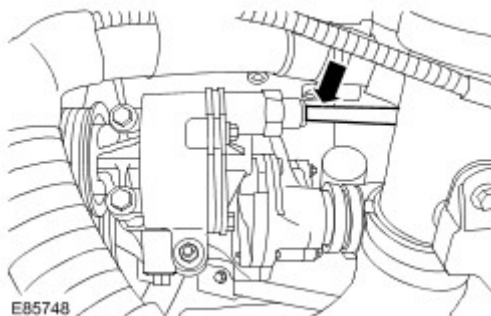
Brake Vacuum Pump (70.50.19)

Removal

- 1 . Disconnect the battery ground cable.
For additional information, refer to [Battery Disconnect and Connect](#)
- 2 . Remove the cooling fan.
For additional information, refer to [Cooling Fan \(26.25.19\)](#)
- 3 . Release the tension from the accessory drive belt.
▶ Rotate the accessory drive belt tensioner clockwise.



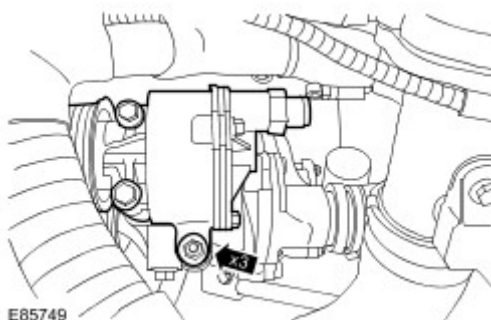
- 4 . Disconnect the brake vacuum pump vacuum pipe.



- 5 .  **CAUTION: Make sure that all openings are sealed. Use new blanking caps.**

Remove the brake vacuum pump.

- ▶ Remove the 3 bolts.
- ▶ Remove and discard the gasket.



Installation

1 . **NOTE:**

Remove and discard the blanking caps.

NOTE:

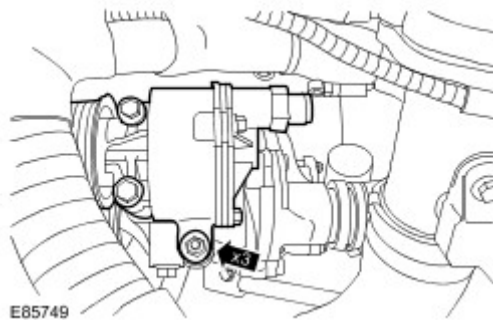
Clean the component mating faces.

NOTE:

Install a new gasket.

Install the brake vacuum pump.

➤ Tighten to 23 Nm (17 lb.ft).



2 . Connect the brake vacuum pump vacuum pipe.

3 . Secure the accessory drive belt.

➤ Rotate the accessory drive belt tensioner clockwise.

4 . Install the cooling fan.

For additional information, refer to [Cooling Fan \(26.25.19\)](#)

5 . Connect the battery ground cable.

For additional information, refer to [Battery Connect](#)