

Master cylinder, replacing

Note! The illustrations in this service information are used for different model years and/or models. Some variation may occur. However, the essential information in the illustrations is always correct.

Removal

Removing soundproofing panels

Remove driver's side soundproofing panel. See: [Soundproofing panel driver's side, replacing](#).

Disconnecting the battery lead

Remove:

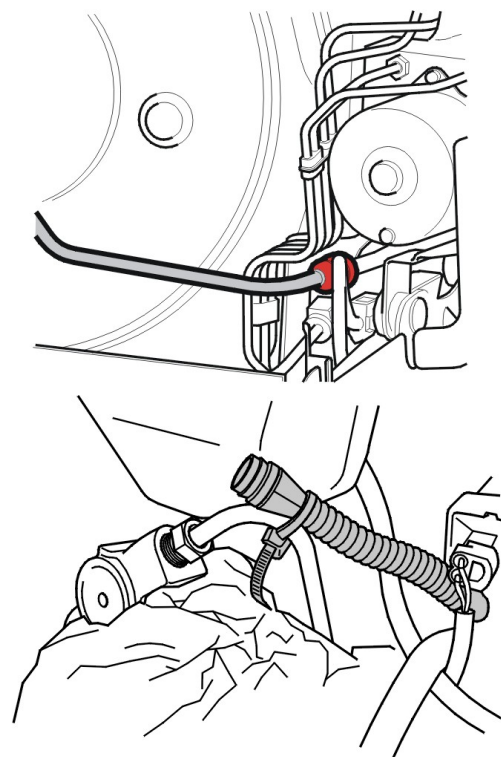
- the battery negative lead. See: [Note when disconnecting/connecting the battery lead](#)
- the box for the battery.



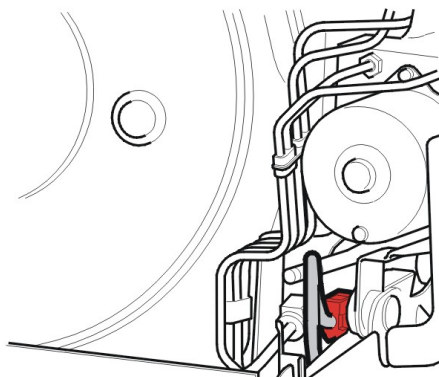
Removing the clutch feed line

Note! Be prepared with paper to prevent spillage.

Press in the lock button. Carefully pull the feed line away from the master cylinder.

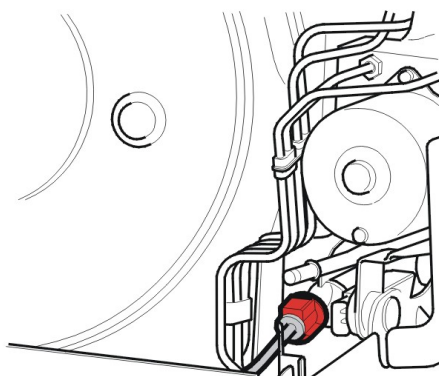


Note! Ensure that the end of the hose is secured above the level in the reservoir.



Disconnecting the position sensor

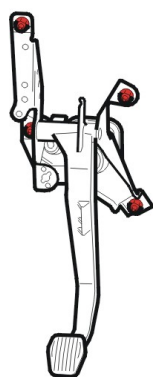
Disconnect the connector for the clutch position sensor.



Disconnecting the clutch line

Pull out the locking pin and remove the clutch line.

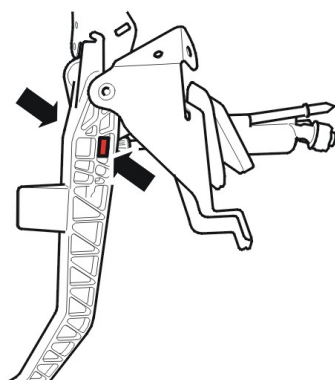
Hint: If the locking pin is difficult to access, poke it out completely and pick it up using a magnet. It can be installed with the master cylinder removed.



Removing the pedal box

Remove:

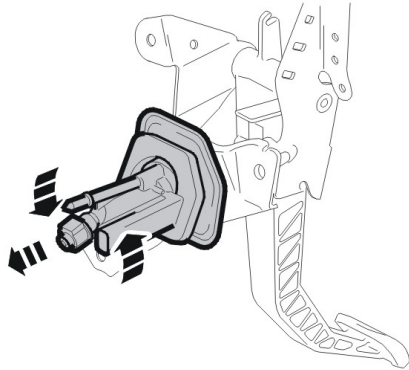
- the 4 nuts
- the pedal box.



Removing the ball joint

Hint: In order to avoid any spillage, first drain the master cylinder of remaining brake fluid into a container by pressing the pedal.

Press in the locking pins for the ball joint, one on either side of the pedal arm. Remove the ball joint and the push rod from the pedal arm.



Removing the master cylinder

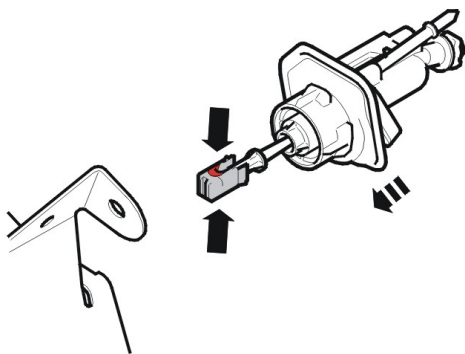
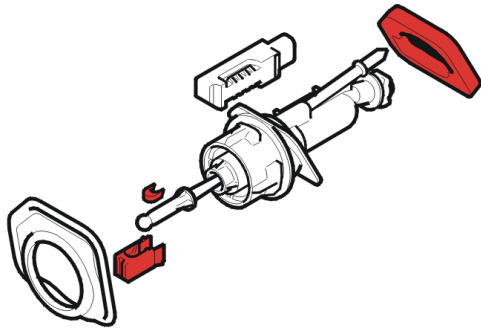
Grip the entire master cylinder. Turn the master cylinder clockwise to release it from the pedal box.

Installation

Note! For tightening torques, see: [Tightening torque](#)

Preparations for installation

The ball joint together with the retaining clip and the soundproofing are always replaced when installing the master cylinder. Grease the ball joint and the push rod ball using silicon. Use Volvo original grease PTFE (polytetrafluoroethylene).



Installing the ball joint

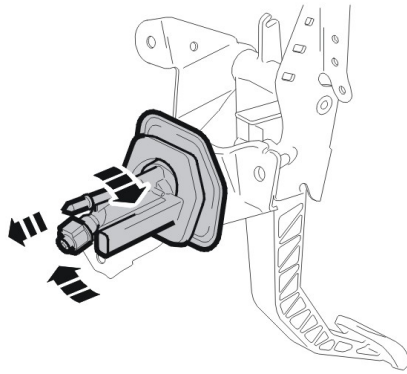
Note! The retaining clip must be facing up in the pedal arm. Press the ball joint carefully into the pedal arm. Check that both locking pins lock into place.

Place the push rod ball in the ball joint. Install the retaining clip.

Installing master cylinder

Turn the master cylinder clockwise in place in the pedal box.

Hint: Check that the locking pin for the clutch line is in its ready position.



Installing the pedal box

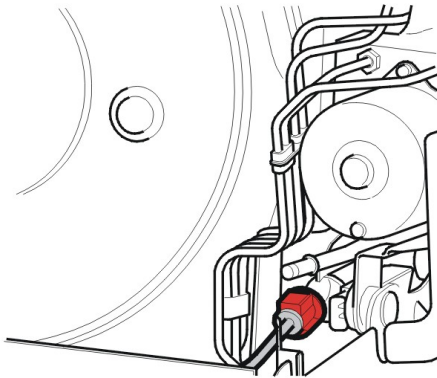
Note! Carefully slide the master cylinder into position through the hole in the cowl panel.

Position the pedal box.
Install the 4 M8 nuts. Tighten.



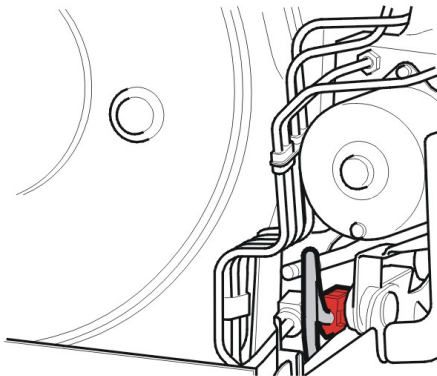
Installing the clutch cable

Press the clutch line into the master cylinder.
Press in the locking pin. Check that the clutch line is secured.

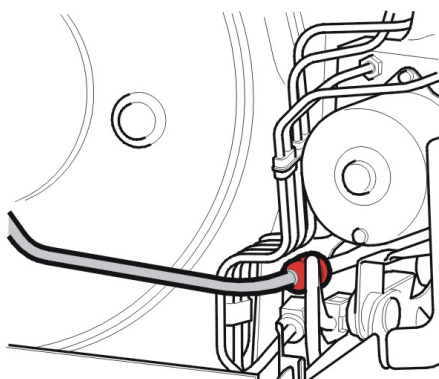


Connecting the position sensor

Connect the connector for the clutch position sensor.



Installing the clutch feed line



Press the feed line into place in the master cylinder. Check that the line is securely in place.



Installing the battery lead

Install:

- the box for the battery
- the battery negative lead. See: [Note when disconnecting/connecting the battery lead](#) .

Bleeding the clutch

Note! Unscrew the bleed screw until drops start to form. The version uses a rubber gasket instead of a cone.

Bleed the clutch.

Check the brake fluid

Check the brake fluid level. Use only Volvo Genuine parts brake fluid (Volvo DOT 4+) when topping up.

Installing the soundproofing panel

Install driver's side soundproofing panel. See: [Soundproofing panel driver's side, replacing](#) .

Clutch pedal, replacing

See: [Master cylinder, replacing](#) .