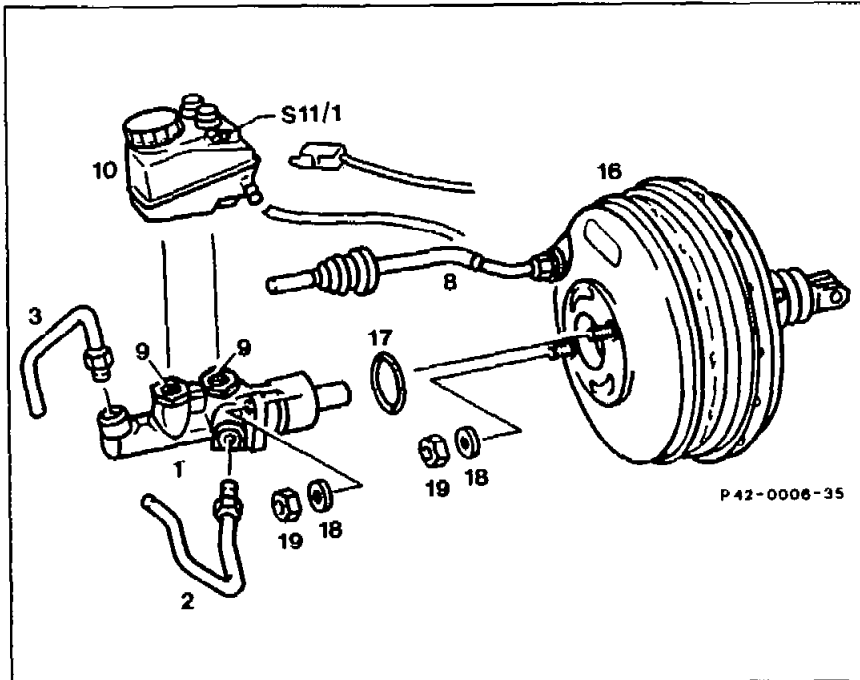



42-0310 Removal and Installation of stepped tandem master brake cylinder

Operation no. of operation texts and work units or standard texts and flat rates:
42-1510, 42-1520



Model 124.036 ab 02/93

Coupling	disconnect from switchover valve for master brake cylinder (Y61), reconnect (item 1).
All vehicles	
Brake fluid level switch (S11/1)	disconnect coupling, connect (item 2).
All hoses (where appropriate ASR, coupling)	disconnect from brake fluid supply reservoir (10), connect (item 3).
Brake fluid supply reservoir (10)	drain and remove. Check supply reservoir plugs (9), replace if required (items 3 and 4).
	
Brake lines (2 and 3)	Observe Note on disposal disconnect at tandem master brake cylinder (1), connect. Seal off connections, 10 Nm (item 5). Box wrench 000 589 75 03 00, torque wrench 001 589 72 21 00.

Nuts (19) and washers (18)

Sealing ring (17)

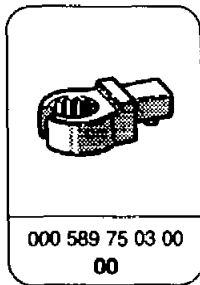
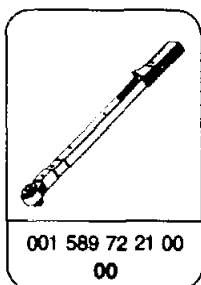
Brake system

Unscrew, screw on, 15 Nm. Remove tandem master brake cylinder (1), install. Do not tilt tandem master brake cylinder (1) when pulling out of brake booster (16) (item 6).

Replace (item 6).

Bleed (42-0010).

Special tools

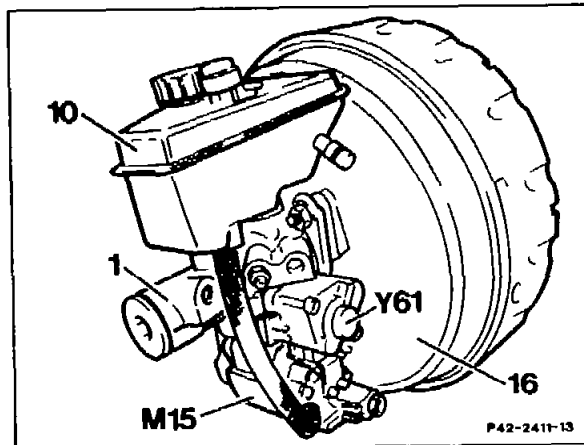


Removal, installation

1 Disconnect coupling from switchover valve for master brake cylinder (Y61).

Model 124.036 as of 02/93

- 1 Tandem master brake cylinder
- 10 Brake fluid supply reservoir
- 16 Brake booster
- M15 ASR pressurizing pump
- Y61 Master brake cylinder switchover valve



2 Disconnect coupling from brake fluid level switch (S11/1).

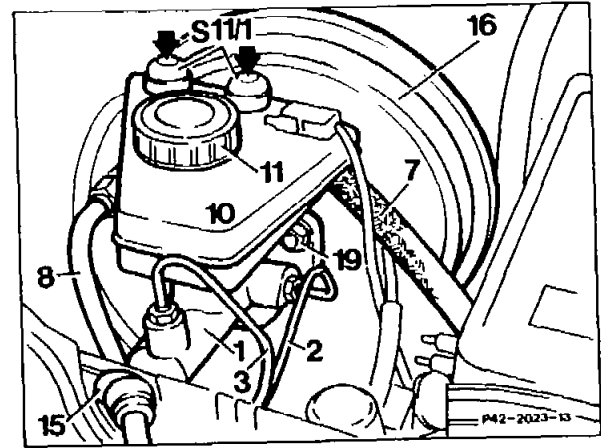
3 Drain brake fluid supply reservoir (10) (observe Note on disposal).

Vehicles with manual transmission or ASR:
Disconnect connecting hose (7).

4 Remove brake fluid supply reservoir (10) from tandem master brake cylinder (1).

Installation note

Check supply reservoir plugs in tandem master brake cylinder (1), replace if required.

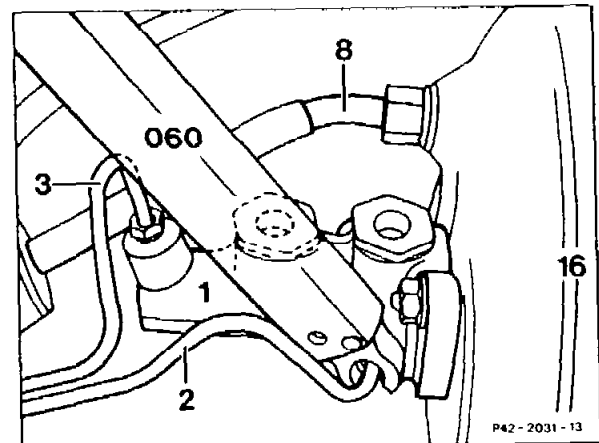


- 1 Tandem master brake cylinder
- 2 Brake line
- 3 Brake line
- 7 Connecting hose
- 8 Vacuum line
- 10 Brake fluid supply reservoir
- 11 Cap
- 15 Rubber grommet
- 16 Brake booster
- 19 Nut
- S11/1 Brake fluid level switch

5 Unscrew brake lines (2 and 3) on tandem master brake cylinder (1). Immediately seal off all brake lines (2 and 3) with rubber caps and connections on tandem master brake cylinder (1) with blind plugs.

Installation note

When screwing on the brake lines (2 and 3) use torque wrench (060) 001 589 72 21 00 and box wrench 000 589 75 03 00. Tightening torque 10 Nm.



- 1 Tandem master brake cylinder
- 2 Brake line
- 3 Brake line
- 8 Vacuum line
- 16 Brake booster

6 Unscrew nuts (19). Remove tandem master brake cylinder (1) in axial direction to pushrod in brake booster (16), paying attention to the sealing ring (17) located in the groove in the flange of the tandem master brake cylinder (1). Do not tip the tandem master brake cylinder (1) during this work to prevent the pushrod from being forced out of its axial position and breaking out of the retaining lugs in the control unit.

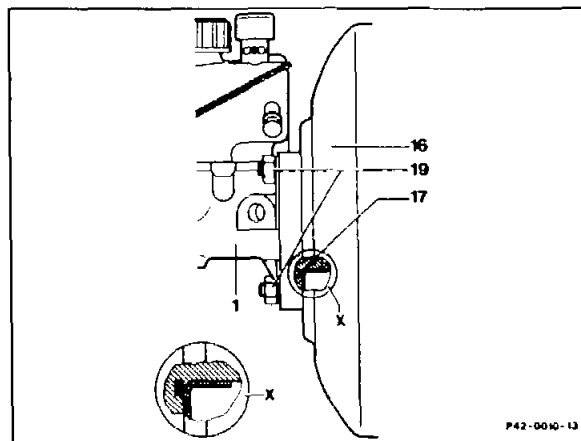
Installation note

Replace sealing ring (17).

Tightening torque 15 Nm.

Torque wrench 001 589 72 21 00.

Do not attempt to recondition the switchable master brake cylinder in model 124.036 as of 02/93.



- 1 Tandem master brake cylinder
- 16 Brake booster
- 17 Sealing ring
- 19 Nuts



If brake fluid loss cannot be detected externally, check whether brake fluid has entered the brake booster through a leaky secondary seal in the tandem master brake cylinder. If so, proceed as follows:

a) Unscrew master brake cylinder on installed brake booster (42-0310), pull out and evacuate brake fluid.

b) If more than 100 cm³ of brake fluid is present in the brake booster, replace brake booster.

Note

The rolling diaphragm in the brake booster is resistant to brake fluid, but not the reaction disc and the poppet valve in the control unit. For this reason evacuate brake fluid only with brake booster installed. When the brake booster is installed and less than 100 cm³ of brake fluid is present, it is not possible for brake fluid to reach the reaction disc or poppet valve.

7 Bleed brake system (42-0010).**Note on disposal**

Dispose of used brake fluid as polluting waste. (See disposal instructions in MBVD Environmental Protection Catalog Chapter 2.6 - pages 2-43). Brake fluid which does not contain oil can be recycled.

This requires that the brake fluid be collected and stored according to type.

For this purpose we recommend using the collection system from the Schröder company described in the MBVD Workshop Equipment Catalog under the following numbers:

0210	2200 E	0705	Collection vessel
0210	2200 E	0701	Drain vessel
0210	2200 E	0702	Hand pump
0210	2200 E	0703	Transport rack

The same description is given in the Workshop Equipment Manual, Volume 2, Chapter U, Group 00 (22).