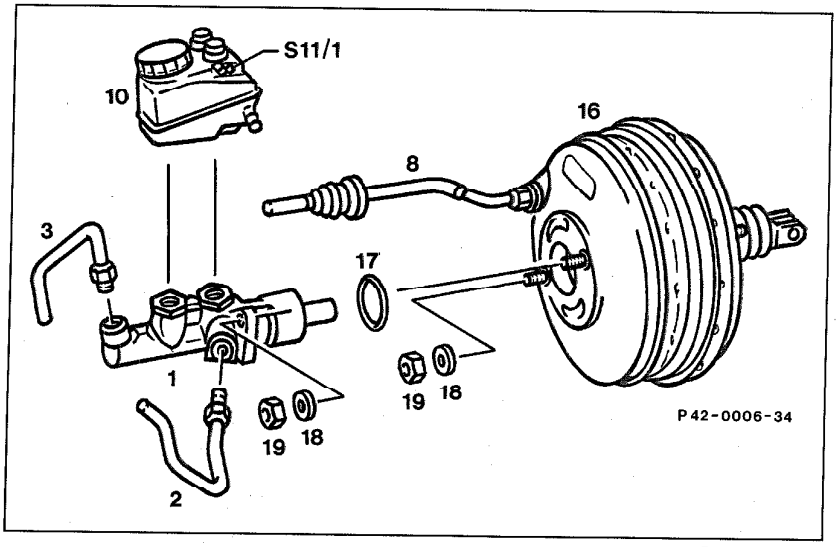


P42-0006-34

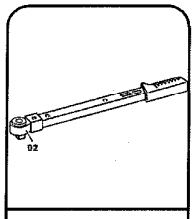
Connector	disconnect from brake fluid indicator switch (S11/1).
Brake fluid supply reservoir (10)	drain and remove, observe Note on disposal.
Brake lines (2 and 3)	disconnect on tandem master brake cylinder. Plug connections 10 Nm. Open box wrench (11 mm) 000 589 75 03 00. Torque wrench 001 589 72 21 00.
Hex. nut (19)	loosen, 15 Nm.
Tandem master brake cylinder (1)	remove from booster unit (16). Observe Note.

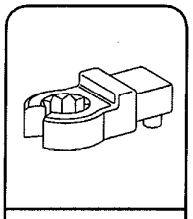
Data

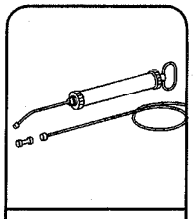
		Stepped tandem master brake cylinder up to 06/83 [1]		Stepped tandem master brake cylinder from 07/83 [2]	
		Push rod circuit	Floating circuit	Push rod circuit	Floating circuit
Cylinder dia.	Inches	15/16	3/4	1	3/4
	mm	23.81	19.05	25.4	19.05

[1] Starting 09/81 with central valve.
[2] Starting 09/85 made of light alloy.

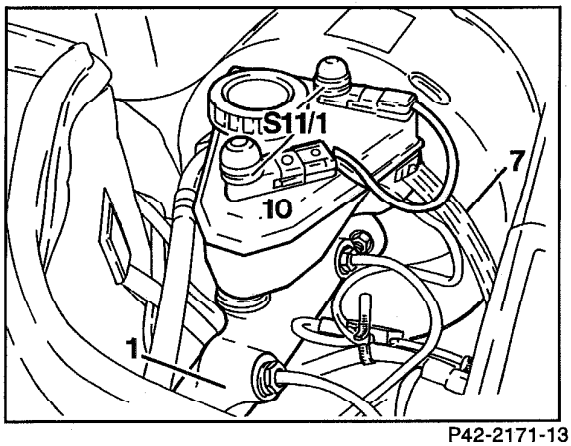
Special tools


001 589 72 21 00


000 589 75 03 00


112 589 00 72 00

Removal, installation



P42-2171-13

1 Disconnect connector on brake fluid indicator switch (S11/1). For this purpose lift retaining lugs with small screwdriver. On vehicles with manual transmission remove connection hose at connection (7) to master cylinder. Disconnect connection hose to charging pump on ASR vehicles.

2 Pump brake fluid out by opening bleed screw in front and rear brake circuits. Assure that all chambers of the brake fluid reservoir are empty.

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

Installation note
Install brake fluid reservoir and fill with brake fluid. Assure that all chambers are filled with brake fluid. Connect connector on brake fluid indicator switch (S11/1).

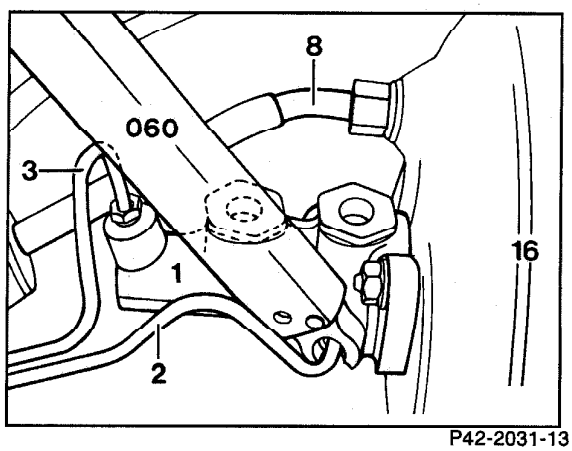
Note on disposal
Used brake fluid must be disposed of as special waste.
Brake fluid can be recycled if it does not contain oil.

This requires collection of the brake fluid according to type.
We recommend the collection system from the Schröder company available under the following numbers.

0210 2200 E 07 05	Collection reservoir
0210 2200 E 07 01	Removal reservoir
0210 2200 E 07 02	Hand pump
0210 2200 E 07 03	Transport rack

4 Disconnect brake lines on tandem master brake cylinder. Immediately plug all brake lines with rubber caps and connections on tandem master brake cylinder with dummy plugs.

Installation note
When connecting the brake lines use torque wrench with open box wrench attachment.
Tightening torque 10 Nm.



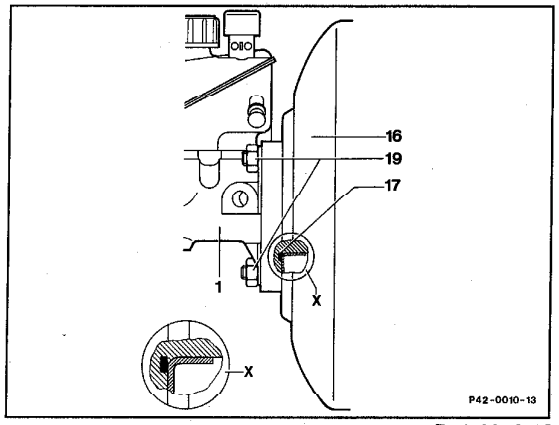
P42-2031-13

Torque wrench	001 589 72 21 00
Open box wrench 11 mm	000 589 75 03 00

5 Disconnect tandem master brake cylinder on booster unit and remove, while paying attention to the sealing ring (17) located in the groove in the flange on the tandem master brake cylinder.

When removing observe the following:

Push brake line (3) slightly to side. Remove and install tandem master brake cylinder in axial direction to push rod in booster unit. Do not tip the tandem master brake cylinder while removing, in order to prevent push rod from being pressed out of its axial position and breaking out of the retaining lugs on the control stage. Pull vacuum line out of recess in bulkhead for engine compartment to allow tandem master brake cylinder to be removed and inserted parallel.



P42-0010-13

Installation note
Always replace sealing ring (17) between tandem master brake cylinder and booster unit, because the connection must be absolutely vacuum-tight.

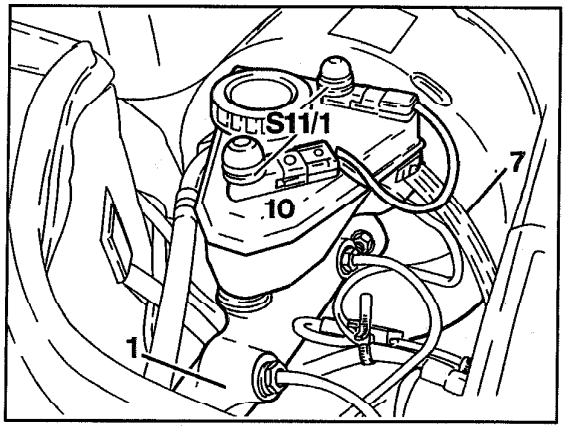
Insert sealing ring properly in groove in tandem master brake cylinder. Fasten master brake cylinder (1) to booster unit (16).
Tightening torque 15 Nm.

6 Bleed brakes and check for leakage (42–010 and 42–015).

⚠ **WARNING!**
If brake fluid loss is present but not visible externally, check whether brake fluid has entered brake booster through leaky secondary seal in tandem master cylinder. If so proceed as follows:

a) Evacuate brake fluid with booster unit installed.

b) If more than 100 cc of brake fluid are present in the booster unit, exchange booster unit.



P42-2171-13

Note
The flexible diaphragm is resistant to brake fluid, but not the reaction disc and the valve plate in the control section. For this reason, draw off brake fluid only with brake booster installed. Brake fluid cannot reach the reaction plate or plate valve as long as the booster unit is installed and the quantity of brake fluid is less than 100 cc.