

42-310 Removal and installation of tandem main cylinder

Data

	Tandem main cylinder up to fall 1975		Stepped tandem main cylinder starting fall 1975 – July 1983 ¹⁾		Stepped tandem main cylinder starting July 1983 ²⁾	
	Pushrod circuit	Floating circuit	Pushrod circuit	Floating circuit	Pushrod circuit	Floating circuit
Cylinder dia.	Inch	15/16	15/16	3/4	1	3/4
	mm	23.81	23.81	19.05	25.40	19.05

1) Starting September 1981 with central valve

2) Starting September 1985 made of light alloy

Tightening torques

Nm

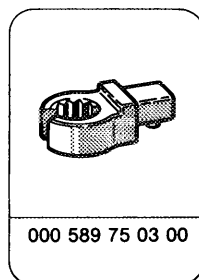
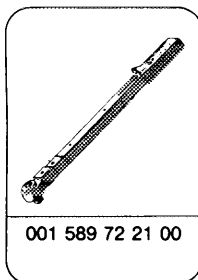
Hex. nuts for fastening main cylinder to brake unit

15

Cap screw of brake line on main cylinder

10

Special tools



Conventional tool

Open double box wrench 9 x 11 mm

e.g. Hazet, D-5630 Remscheid
Order No. 612

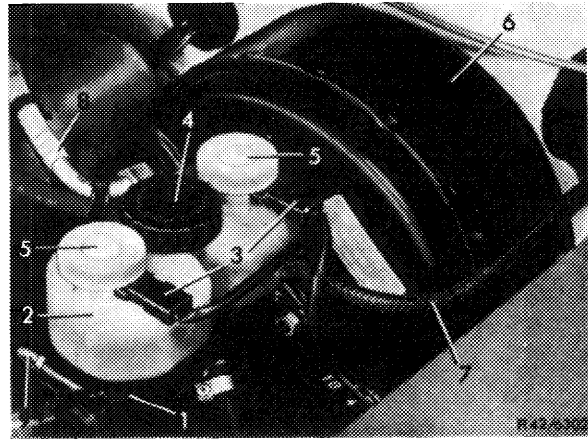
Note

For loosening and tightening brake line be sure to use conventional, open double box wrench or open box wrench element only.

Removal

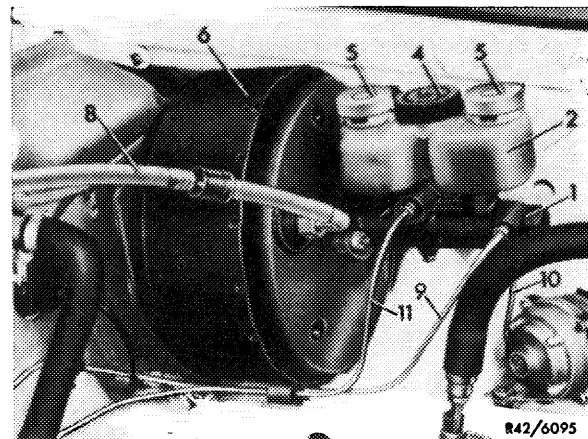
1 Pump out brake fluid via an open bleeder plug of the front axle and rear axle brake circuit. Make sure that both chambers of the expansion tank are drained.

2 Loosen plug connections (3) on contact inserts of warning device while lifting the holding lugs with a small screwdriver.

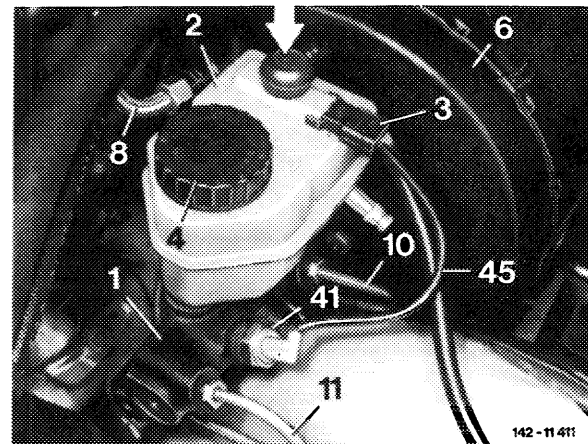


3 Disconnect both brake lines to front wheel brake and brake line to rear wheel brake on tandem main cylinder.

Immediately close all brake lines with rubber caps and close connections on tandem main cylinder with blind plugs.



4 On tandem main cylinder with pressure difference warning indicator (DDW) pull cable (45) from switch (41).

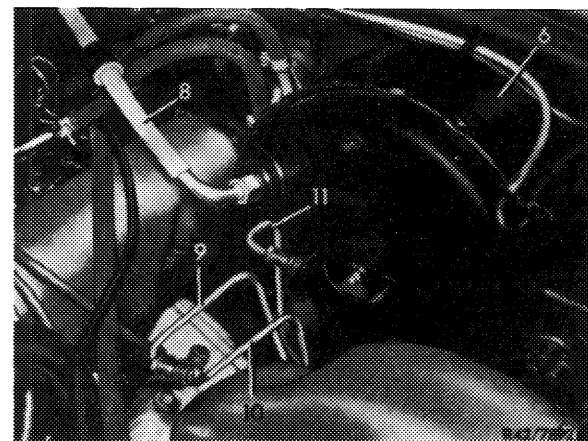


5 Loosen tandem main cylinder on brake unit and remove, while paying attention to O-ring located in groove of tandem main cylinder flange.

Attention!

In the event of externally unnoticeable brake fluid loss check whether brake fluid has entered the brake unit through a leaking secondary seal in tandem main cylinder. If so, proceed as follows:

1. Do **not** remove brake unit.
2. Draw off brake fluid.
3. If there are more than 100 cc brake fluid in brake unit, also replace brake unit.



Note: The flexible diaphragm is resistant to brake fluid, while the reaction disk and the plate valve in control section are not. Brake fluid should therefore be drawn off only with the brake unit installed. Up to 100 cc, with the brake unit installed, no brake fluid can flow to reaction disk or to plate valve.

Installation

Attention!

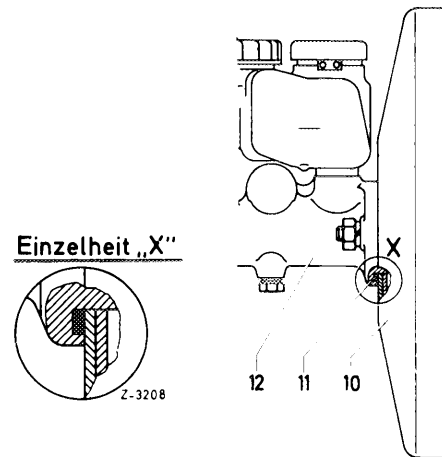
The sealing between the tandem main cylinder and the brake unit should always be renewed, since the connection must be **completely vacuum-tight**.

6 Insert sealing ring (11) into groove of tandem main cylinder (12) and fasten main cylinder to brake unit (10). Tighten hex. nuts to 15 Nm.

Note: On stepped tandem main cylinder (installed starting fall 1975) the brake circuits are interchanged. The front wheel brake is connected to pushrod circuit (piston dia. 23.81 mm) and the rear wheel brake to floating circuit (piston dia. 19.05 mm).

7 Connect brake lines to tandem main cylinder. For this purpose, use torque wrench 001 589 72 21 00 with open box wrench element 000 589 75 03 00.

Tightening torque 10 Nm.



8 Fill expansion tank with brake fluid. Make sure that the individual chambers are filled.

9 Connect plug connection to contact inserts of warning device.

10 On tandem main cylinder with pressure difference warning indicator, plug cable (45) on switch (41).

11 Bleed brakes and check for leaks (42-010 and 42-015).

