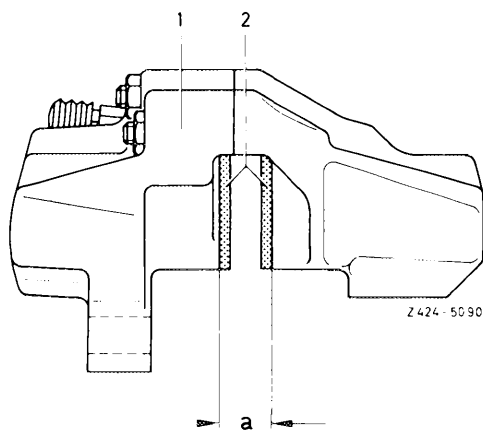


## 42-100 Removal and installation of caliper on front axle

### Data

Caliper make	Teves	Bendix
Caliper piston dia.	60	
Shaft width for brake pads	90 + 0.15	
Disc contact width "a"	25	



- a Disc contact width
- 1 Caliper
- 2 Brake pad

### Tightening torque

Nm

Fitted hex bolt for attaching caliper to steering knuckle

115

### Conventional tool

Open double box wrench 9 x 11 mm

e.g. made by Hazet, D-5630 Remscheid  
order no. 612

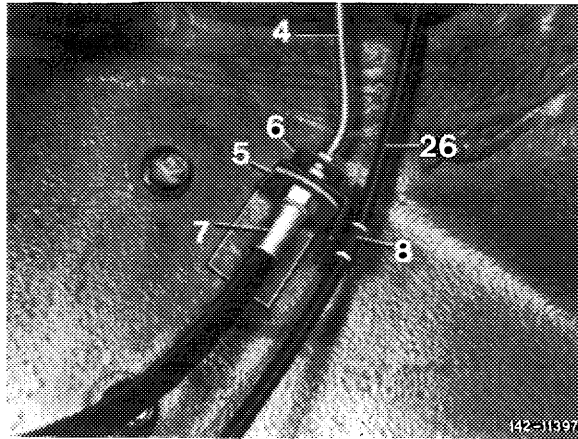
### Note

For loosening and tightening brake lines use conventional double box wrench only.

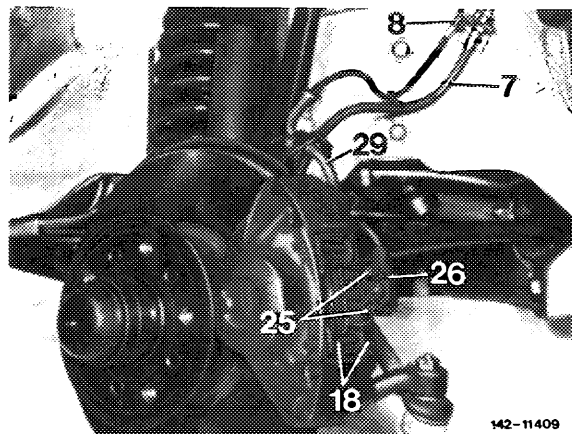
### Removal

1 Pump brake fluid out of front brake circuit through an open bleeder plug.

2 Loosen brake hose (7) on brake line (4), then close brake hose and brake line immediately with rubber plug.

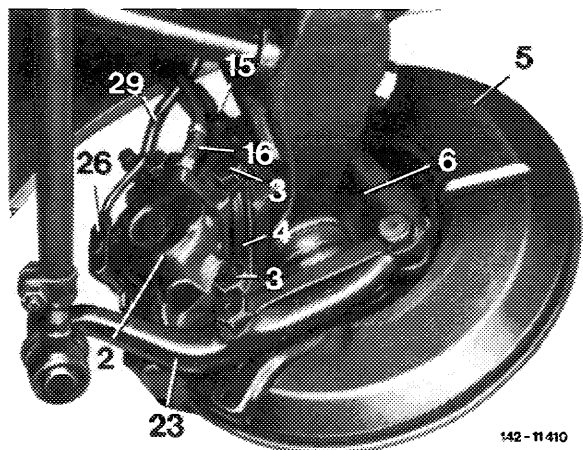


3 On vehicles with brake lining wear indicator, pull cables of clip sensor (25) out of plug connection (26) on caliper.



4 Loosen plug connection (26) of brake lining wear indicator and brake hose (16) from caliper (2). Close connection on brake hose and on caliper with rubber plug.

5 Unbend locking plate (4), if installed, and unscrew fitted hex. bolt (3). Then remove caliper from steering knuckle (6).

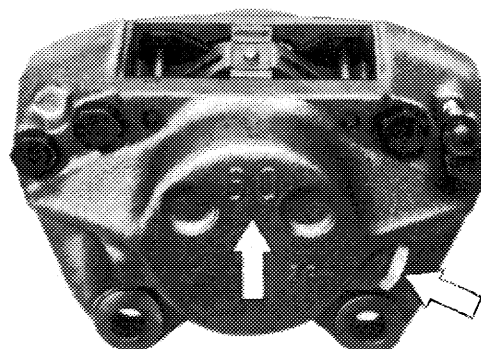


### Installation

#### Attention!

When installing a new caliper proceed as follows:

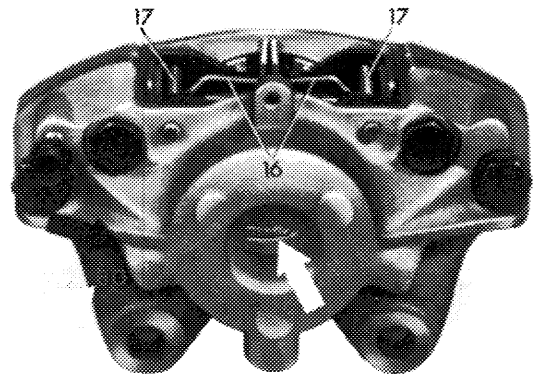
The calipers of one axle should have the same piston dia. In addition, only calipers of the same manufacturer may be installed on one axle.



Teves caliper

R 42 / 7831

Models 116.024, 116.033 and 116.120 (USA) 1980 are provided with modified calipers with linings 17.5 mm thick and modified, vented brake discs which are identified with a groove at their circumference.



Bendix caliper

142-9164/1

6 Attach caliper to steering knuckle (6) using a new locking plate (4) with fitted hex bolts (3) or self-locking fitted hex bolts (3) and tighten to 115 Nm. Secure with locking plate, if required.

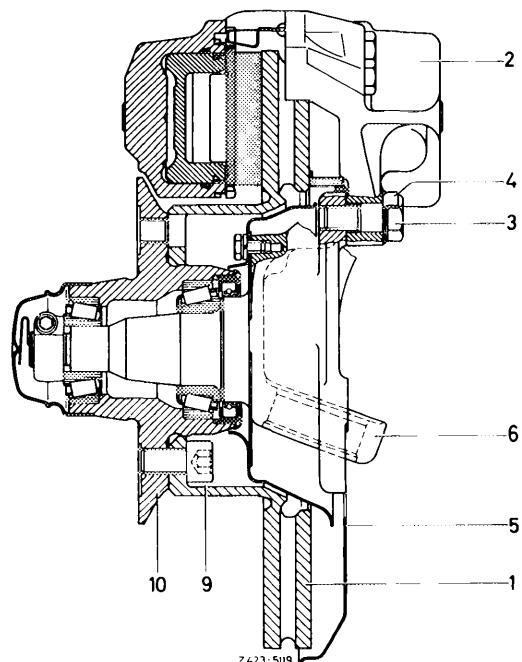
**Note:** Starting at the end of 1976, self-locking fitted hex bolts will be installed. **Self-locking fitted hex bolts may be used only once.**

If the screw-in torque of new self-locking hex. screws is very high, clean threads in steering knuckle from residual glue of micro-encapsulated screws by means of a tap M 12 x 1.5.

During reconditioning jobs (when the caliper is not replaced) maintain the original fastening method:

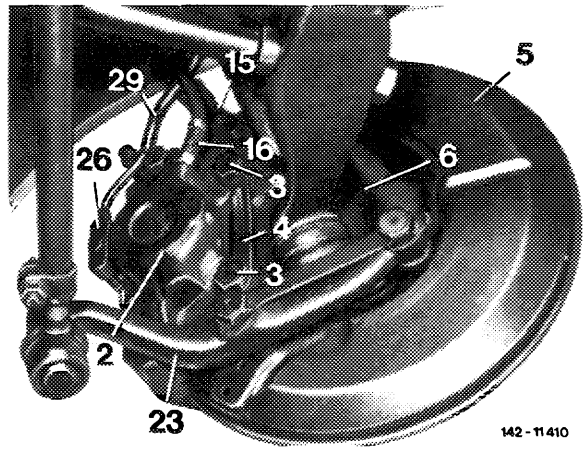
- a) Bolts with locking plate or
- b) self-locking bolts.

When replacing fixed calipers, use a locking plate also with self-locking bolts for additional safety.



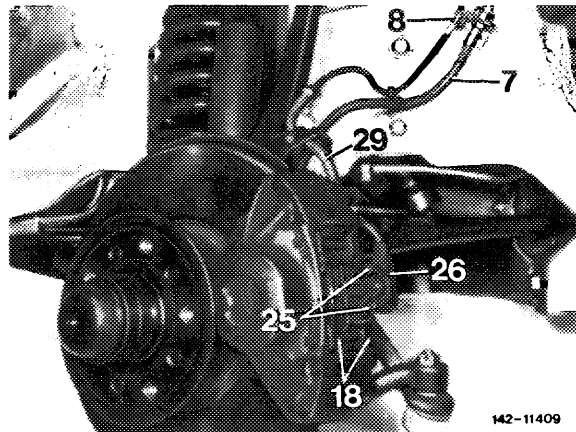
- 1 Brake disc
- 2 Caliper
- 3 Fitted hex bolt
- 4 Locking plate
- 5 Cover plate
- 6 Steering knuckle
- 9 Hex socket screw
- 10 Front wheel hub

7 Introduce brake hose (16) through bracket (15), making sure that the guide grommet of the bracket is not damaged. Then attach brake hose to caliper.



142-11410

8 On vehicles with brake lining wear indicator, attach plug connection (26) to caliper. Insert cable of clip sensors (25) into plug connection (26).



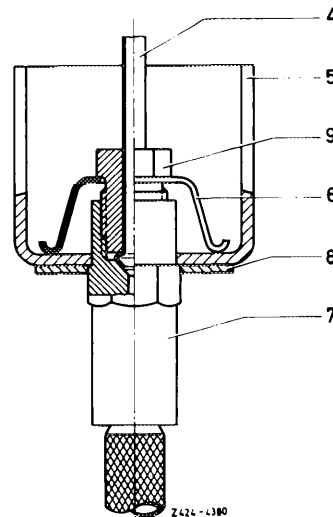
142-11409

9 Connect brake line (4) to brake hose (7), making sure that the brake hose is not twisted.

**Attention!**

Holder (5) is provided with a double hexagon safety plate (8). Insert brake hose (7) into safety plate in such a manner that it will not wipe anywhere at left and right at full steering lock.

- 4 Brake line
- 5 Bracket on frame floor
- 6 Brake hose holder
- 7 Brake hose
- 8 Locking plate
- 9 Cap screw



Z424-4380

10 Bleed front wheel brake circuit (42-010).

**Attention!**

**Check brake system for leaks!**

Upon bleeding, actuate brake pedal several times energetically to obtain the correct clearance between brake disc and brake pad. Then perform leak test with engine running while actuating the brake pedal several times at approx. 200–300 N. The established pressure should hold out for some time, brake pedal should not permit additional depression. Check all connections for leaks. Top-up brake fluid in expansion tank of tandem main cylinder, if required.