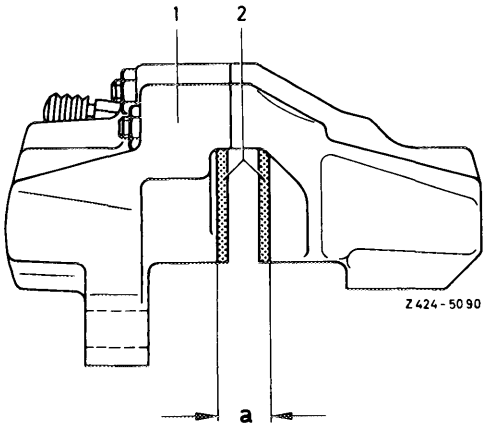
Data

Caliper	Teves M 38	Bendix FB 38
Shaft width for brake pads	62 + 0.15	
Disc contact width "a"	approx. 14	approx. 12.5



a = 1 disc contact width
1 Caliper
2 Brake pad

Tightening torque	Nm	(kpm)
Hex bolt for attaching caliper to wheel carrier of rear axle	90	(9)

Conventional tool

Open double box wrench 9 x 11 mm	e.g. made by Hazet, D-5630 Remscheid Order no. 612

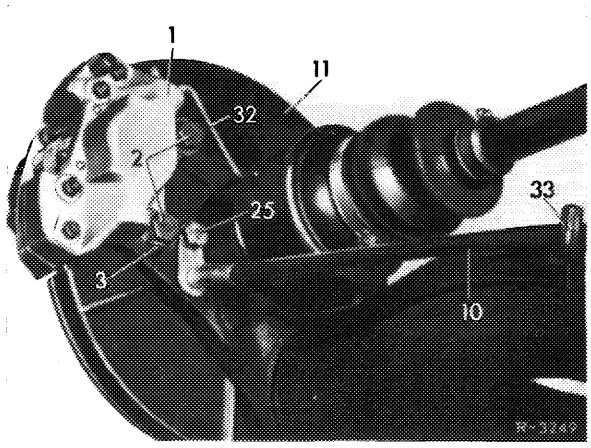
Note

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

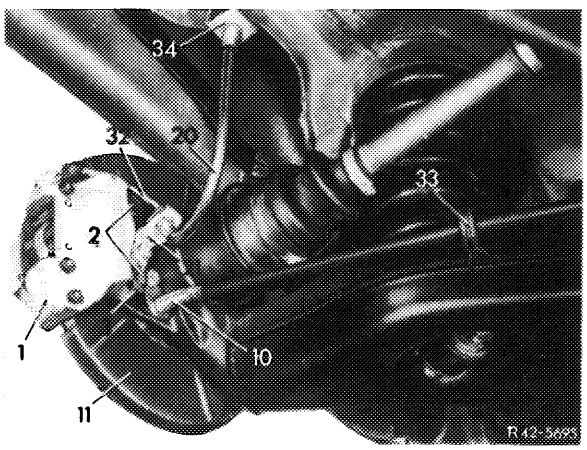
Removal

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

2. On vehicles with brake line layout of 1st and 2nd version, loosen brake line (32) on caliper, then immediately close brake line and connection on caliper by means of rubber plugs.



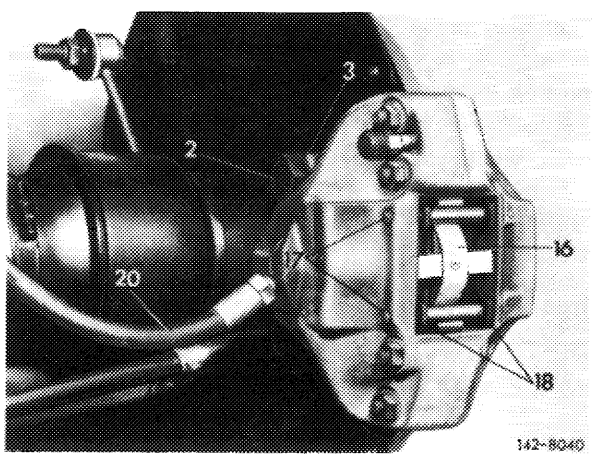
Brake line layout of 1st version (brake line (32) with wire coil on semitrailing arm, direct connection of brake line to brake caliper).



Brake line layout of 2nd version (brake line installed up to above rear axle. The brake hose of this brake line runs to a short brake line (32) on brake caliper)

3. On vehicles with brake line version of the 3rd version loosen brake hose (20) on holder of underbody and screw out of caliper. Close all connections immediately with rubber plugs.

4. Unbend locking plate (3), if installed, and unscrew hex bolts (2). Then remove caliper.

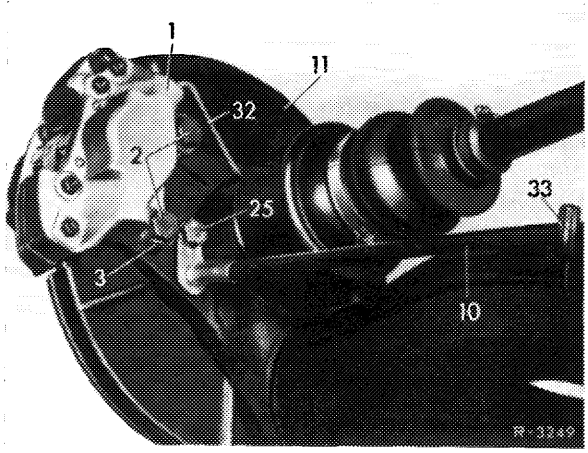


Brake line layout of 3rd version (similar to 2nd version, but the brake hose is connected directly to brake caliper).

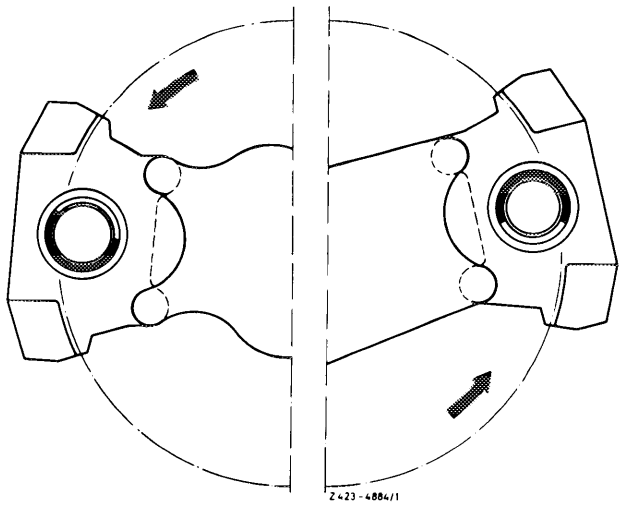
Installation

Note: The brake calipers for brake line layout of 1st and 2nd version are no longer available as a spare part. If a brake caliper of this version must be replaced, proceed as follows:

Vehicles with brake line layout of 1st version (brake line with wire coil on semitrailing arm, production up to September 1970).

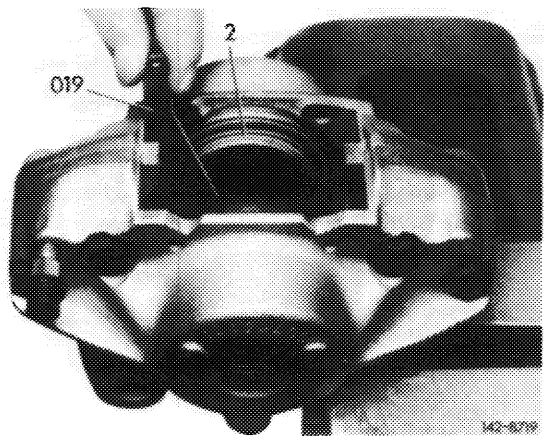


a) Install brake caliper of model 107 or 116 with diagonal swing axle and starting torque compensation. On vehicles with this rear axle version the brake caliper is located prior to axle center (lefthand illustration), while on vehicles with rear axles without starting torque compensation it is located behind axle center (righthand illustration).

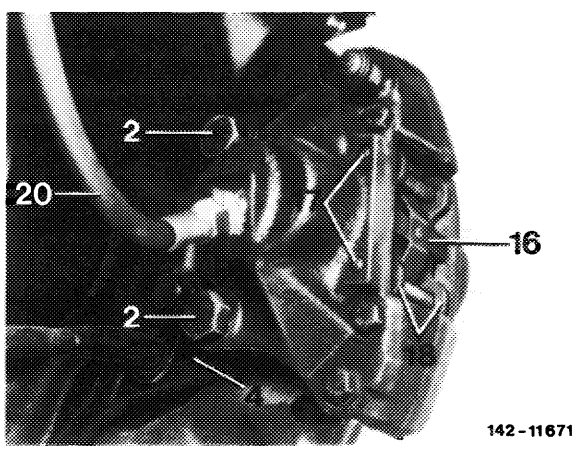


Prior to installing these calipers, turn pistons (2) by approx. 180° to reduce a tendency for squealing. Check piston position by means of piston gauge (019).

Install brake calipers on opposite vehicle side so that the bleed screw is on top.

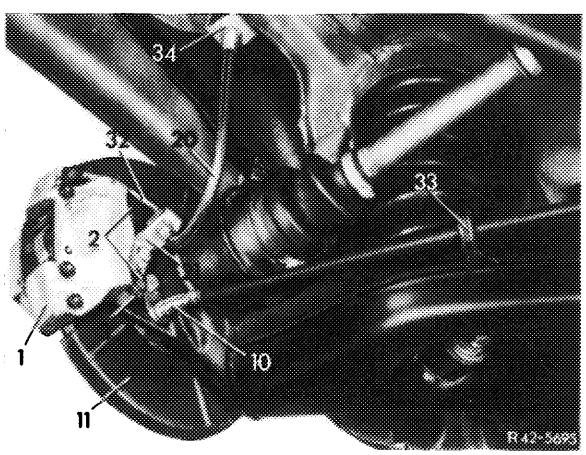


b) Conversion of brake line layout to 2nd version, installed on frame floor up to above rear axle (42–125) and installation of brake caliper 3rd version with direct connection of brake hose (20).

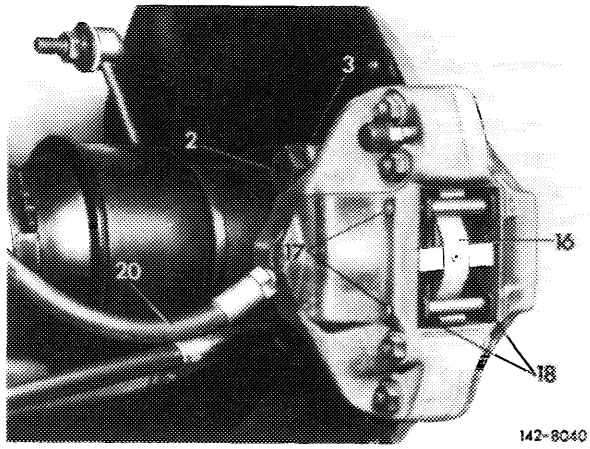


Vehicles with brake line layout 2nd version (brake hose from brake line above rear axle to brake line on brake caliper, production September 1970 to March 1973).

a) Installation of brake calipers of model 107 or 116 with diagonal swing axle and starting torque compensation refer to previous section item "a".

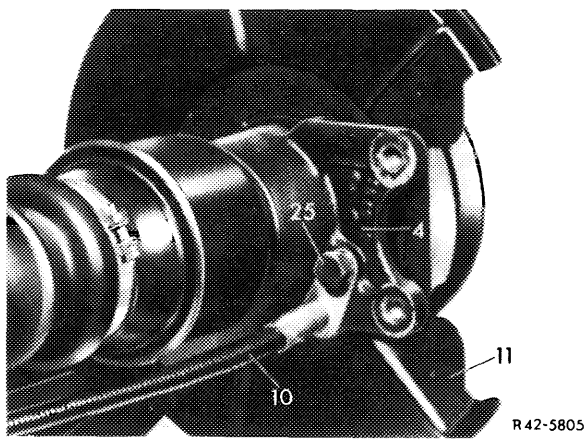


b) Installation of brake calipers with direct connection of brake hose (20) together with brake hoses part no. 123 428 01 35. Production starting March 1973.



5 Position caliper against wheel carrier (4). Then screw hex bolts (2) into holder using a new locking plate (3) or self-locking hex bolts (2) and tighten to 90 Nm (9 kpm). Secure with locking plate, if required.

Note: Self-locking hex screws are installed since December 1975. Use hex screws only once.



During repair jobs (when caliper is not renewed) the original fastening methods:

a) Bolts with locking plate

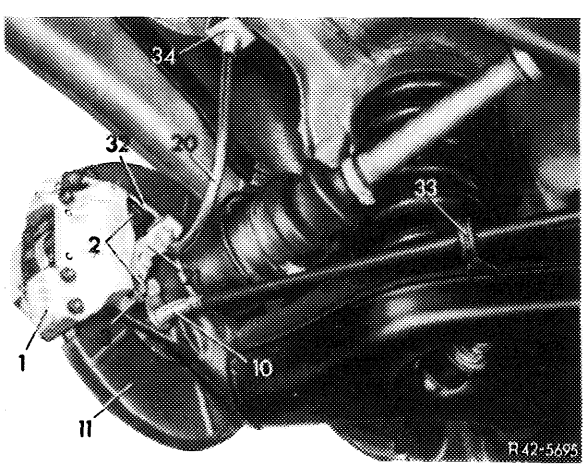
or

b) self-locking bolts must be maintained.

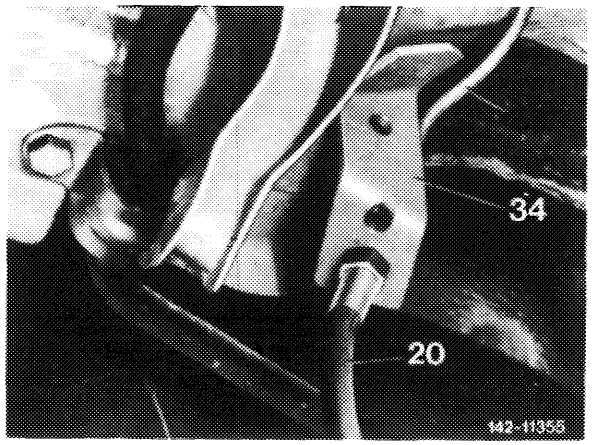
When renewing calipers, use a locking plate also for self-locking bolts for safety reasons.

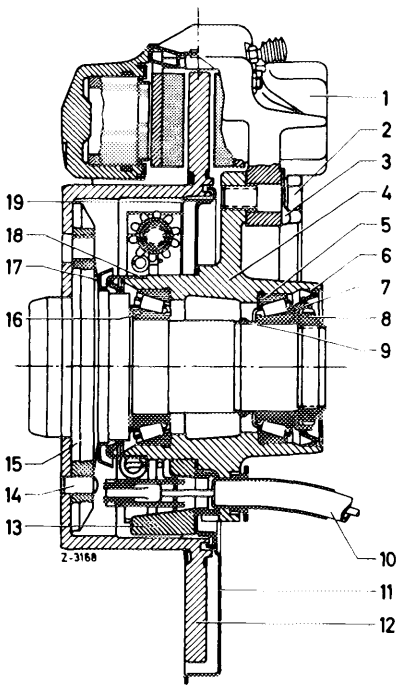
Length of bolts M 12 x 30.

6 Screw brake hose (20) or brake line (32) into caliper and tighten.



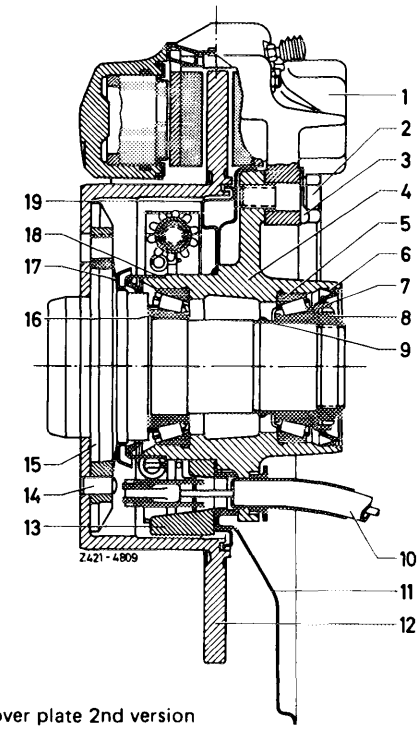
7 On vehicles with 3rd version of brake line layout connect brake hose (20) to brake line (32) on holder (34) of frame floor. Make sure of perfect installation of hose.





Layout cover plate 1st version

1 Caliper
2 Hex bolt
3 Locking plate
4 Wheel carrier
5 Inner tapered roller bearing
6 Radial sealing ring
7 Sealing race
8 Slot nut
9 Spacing sleeve
10 Brake cable control
11 Cover plate
12 Brake disc
13 Brake carrier
14 Fitted pin
15 Rear axle shaft flange
16 Outer tapered roller bearing
17 Dust cap
18 Sealing ring
19 Cover ring



Layout cover plate 2nd version

1 Caliper
2 Hex bolt
3 Locking plate
4 Wheel carrier
5 Inner tapered roller bearing
6 Radial sealing ring
7 Sealing race
8 Slot nut
9 Spacing sleeve
10 Brake cable control
11 Cover plate
12 Brake disc
13 Brake carrier
14 Fitted pin
15 Rear axle shaft flange
16 Outer tapered roller bearing
17 Dust cap
18 Radial sealing ring
19 Cover ring

8 Bleed rear axle brake circuit (42–010).

Attention!
Check brake system for leaks!

Upon bleeding, actuate brake pedal several times energetically for correct clearance between brake disc and brake pad. Then complete leak test with engine running by actuating brake pedal several times at approx. 200–300 Nm (20–30 kp). The established pressure should be maintained for some time with brake pedal remaining in place. Check all connections for leaks. If required, top up brake fluid in expansion tank of tandem main cylinder.