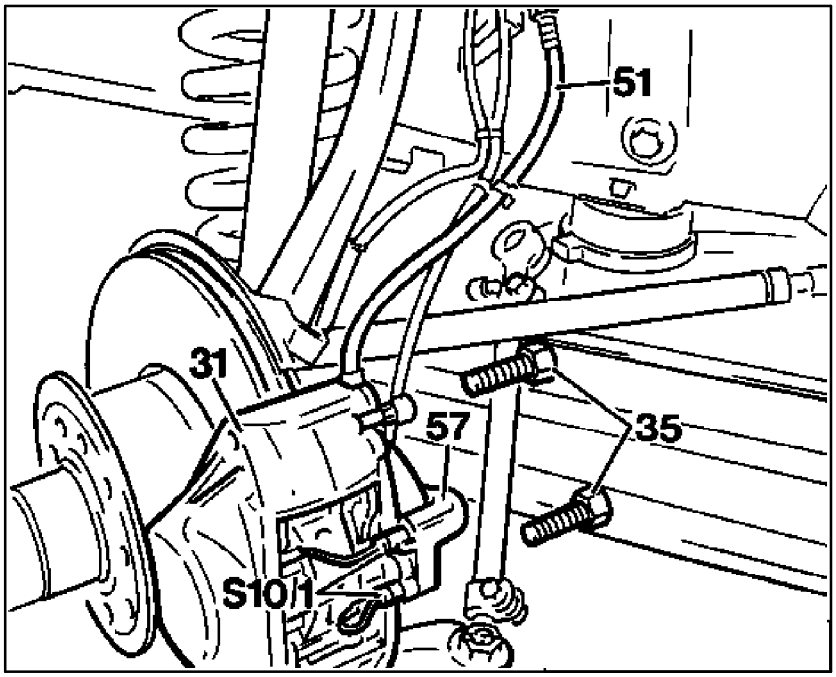
42-0100 Removal and installation of fixed caliper on front axle

Preliminary jobs:	Operation no. of the operation texts and work units
Remove front wheels (40-110).	or standard texts and flat rates 42-0295



Brake fluid	pump out of front brake circuit through bleed screw.
Brake hose (51)	disconnect from brake line (5), use open double box wrench 9 x 11. Close connections with plugs. During installation pay attention to correct position, see installation note for brake hose. Tightening torque 15 Nm.
Clip sensor (S10/1)	pull off of plug connector (57). Check before installing, renew according to findings.
Plug connector (57)	remove from fixed caliper (31).
Brake hose (51)	disconnect from brake caliper (31). Close connections with plugs. Tightening torque 15 Nm. Use open box wrench (14 mm) 000 589 76 03 00. Torque wrench 001 589 72 12 00.
Self-locking hex. head bolts (35)	screw out of stub axle. **Renew** 115 Nm. If the new self-locking hex. head bolts are extremely difficult to screw in, chase the threads in the stub axle with an M 12 x 1.5 tap to remove cement residues from micro-encapsulated bolts.
Fixed caliper (31)	remove from stub axle. Install in opposite order.
Front wheel brake circuit	bleed (42-010).

Brake system_____ check for leakage, see testing note.

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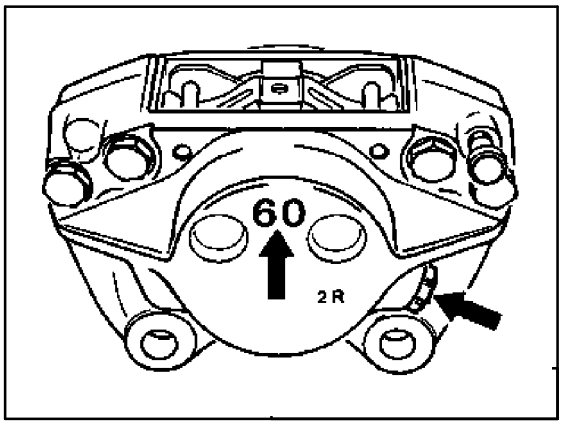
Observe following when installing a new fixed caliper:

The fixed calipers **on one axle must have the same piston diameter**. Moreover install calipers from same manufacturer only on one axle.

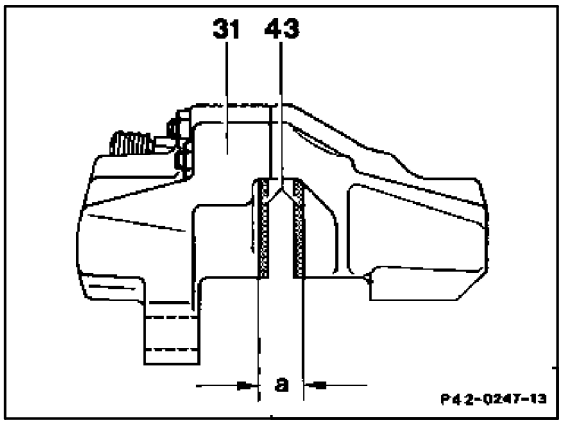
Piston dia. up to August 1985 =60 mm
Piston dia. from September 1985 =57 mm
Code number 60 or 57



Teves fixed caliper

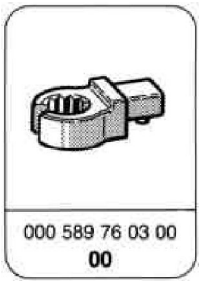
Data

Fixed caliper brand	Teves, Bendix up to August 1985	Teves, Bendix from September 1985
Fixed caliper piston dia.	60	57
Shaft width for brake pads	90+0.5	90+0.15
Disc gap width "a"	25	31



a Disc gap width
31 Caliper
43 Brake pad

Special tools



Standard tool

Open double box wrench 9 B 11	e. g. Hazet, D-5630 Remscheid Order no. 612

Installation note on brake hose
When connecting assure that the brake hose is not twisted.

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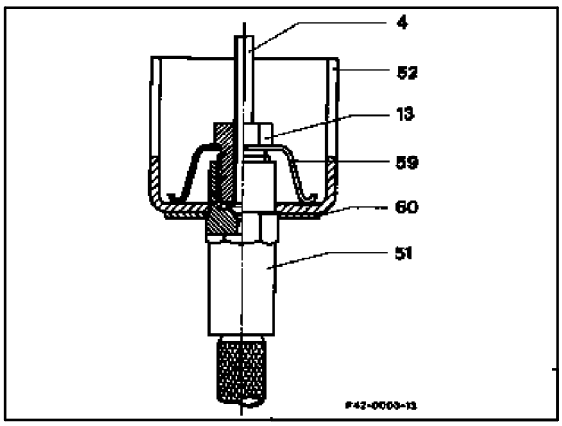
A retaining plate (60) with 12-point hole is fastened to the mount (52). Install brake hose (51) in the retaining plate so that it does not rub when wheels are turned to left and right lock and the suspension is fully extended/retracted.



4 Brake line
13 Union screw
51 Brake hose
52 Mount on frame floor
59 Spring, brake hose mount
60 Retaining plate with 12-point hole

Note on testing
After bleeding actuate brake pedal forcefully a number of times to assure that play between brake disc and brake pads is correct. Then perform leakage check with engine running. For this purpose actuate brake pedal with force of approx. 200-300 N. The pressure built up must be maintained for some time without the brake pedal moving down. Check all connections for leakage. Add brake fluid into brake fluid reservoir on tandem master brake cylinder.