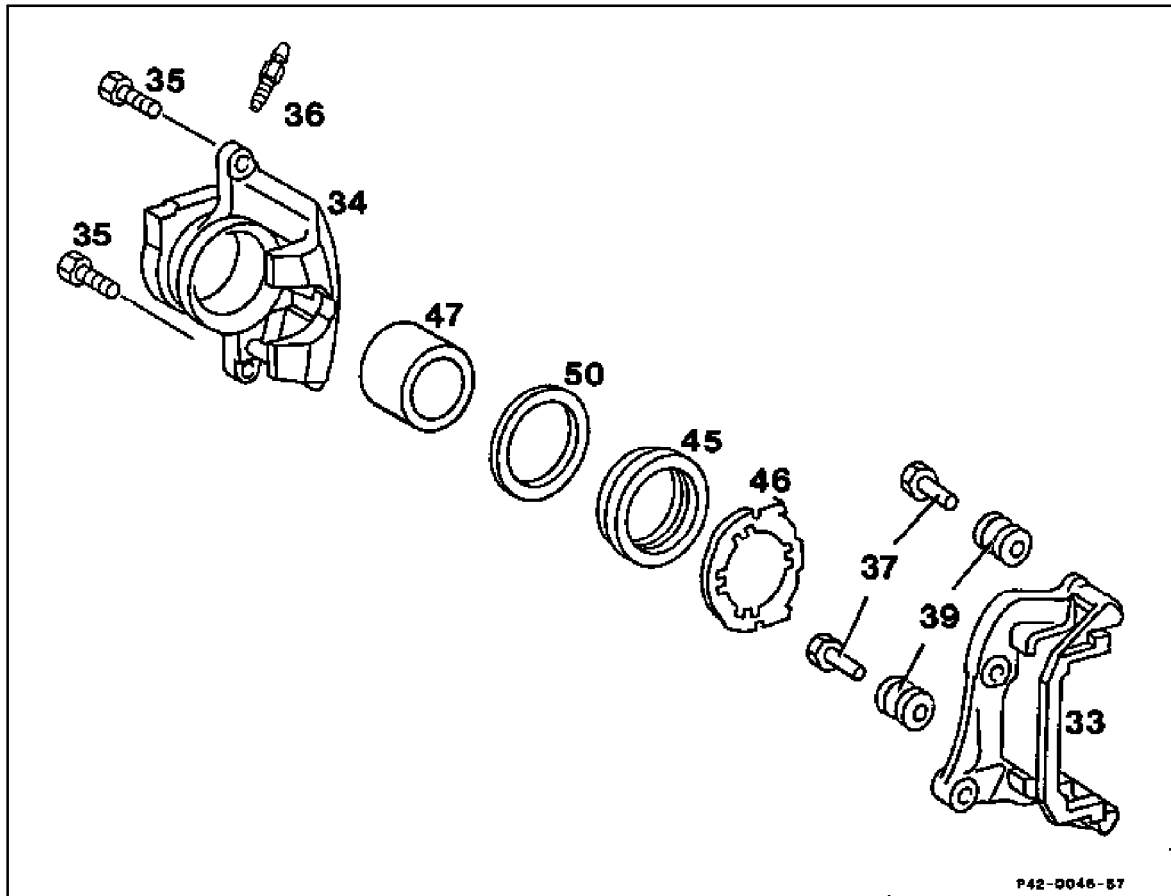


42-0152 Disassembly and assembly of floating caliper, renew parts according to condition

Preliminary job:
Remove and install floating caliper on front axle (42-110).

Operation no. of the operation texts and work units
or standard texts and flat rates 42-0351



- Self-locking bolts (35) _____ remove, install and renew. Counterhold sliding bolt (037), 35 Nm (item 1).
- Heat shield (46) _____ remove. When installing assure that heat shield is seated properly (item 2).
- Piston (47) _____ press out with compressed air (approx. 0.5 bar); use piston turning pliers 000 589 50 37 00 if required. If piston (047) is seized due to rust, renew complete cylinder housing (034). Remove coatings on piston with soft brass wire brush or rough cleaning rag. Do not use crocus cloth or emery paper on piston, otherwise the chrome-plated surface would be damaged. If chrome plating is damaged, renew piston (item 4).

Piston seal (050)	remove from groove in cylinder bore. Check cylinder bores in fixed caliper for wear. If scoring or rusted spots are present in the bores, renew complete fixed caliper. Remove slightly rusted spots in the bore with crocus cloth, heavier rust spots in front of the groove for the piston seal with fine emery cloth (grain size 380 to 500). Coat new piston seals lightly with ATE brake cylinder paste and insert into groove in cylinder bore (items 5 and 6).
Dust cap (045)	renew. Assure that dust cap is seated properly (items 8 and 9).
Heat shield (046)	install. The retaining lugs must engage in the upper groove in the piston (item 10).
Dust protection sleeves (039)	renew. Assure that sleeves are seated properly (item 11).
Sliding bolt (037)	remove, install. Clean sliding bolt and sliding bolt guides, coat with special grease (included in repair kit for sliding bolt). Assure that sliding bolt moves easily during assembly (item 12).

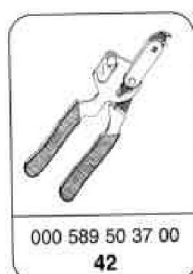
Data

Floating caliper brand	Girling
Housing dia.	<u>59.90</u> 60.04
Shaft width for brake pads	115.2+0.15

Lubricant

ATE brake cylinder paste	
Special grease (in repair kit for sliding bolt)	15g

Special tool

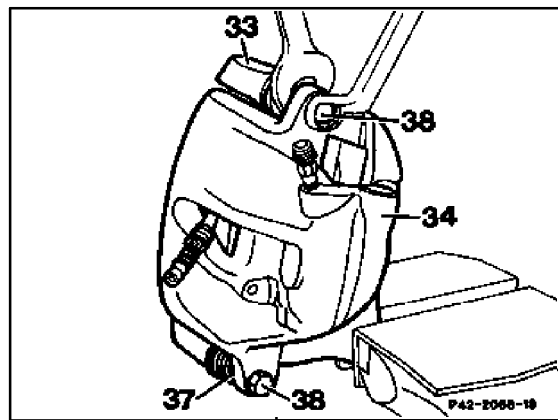


Disassembly, assembly

Note

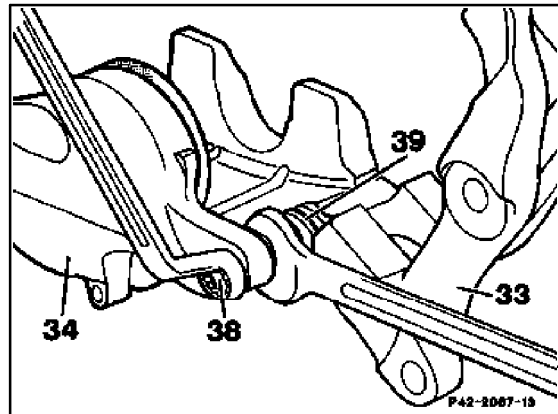
For reconditioning assure that the floating caliper and repair kits are from the same manufacturer.

1 Separate cylinder housing (34) from brake carrier (33) by **loosening** the two bolts (38) while counterholding sliding bolt (37). Remove cylinder housing.



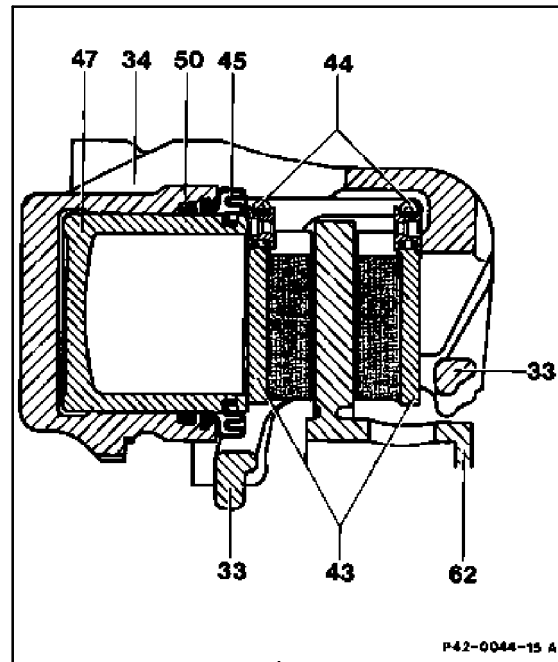
Installation note

Use new self-locking bolts (38). Tightening torque 35 Nm.



2 Remove heat shield, then press out piston with compressed air at pressure of approx. 0.5 bar, if necessary remove piston by turning with piston turning pliers 000 589 50 37 00. If the piston is seized due to rust, use a new cylinder housing (034).

3 Remove piston seal (050) from groove in cylinder bore.



- 33 Brake carrier
- 34 Cylinder housing
- 43 Brake pad
- 44 Spring shackle
- 45 Dust cap
- 47 Piston
- 50 Piston seal
- 62 Brake disc

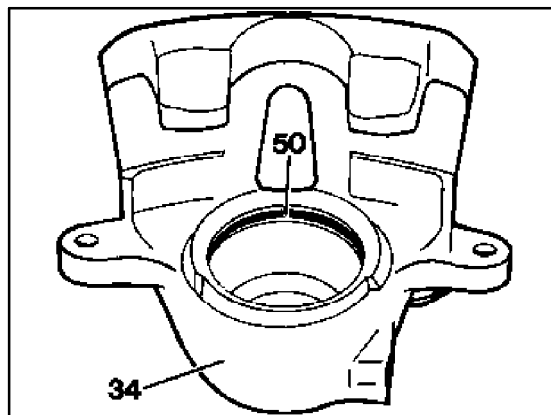
4 Remove coatings on piston with soft brass wire brush or rough cleaning rag. Do not use crocus cloth or emery paper on piston, because this would damage the chrome-plated surface. If the chrome plating is damaged, use new piston.

5 Check cylinder bore for wear. If the bore is scored or rusted, renew complete cylinder housing. Remove slightly rusted spots in bore with crocus cloth, heavier rusted spots in front of groove for piston seal with fine emery paper (grain size 380 to 500).

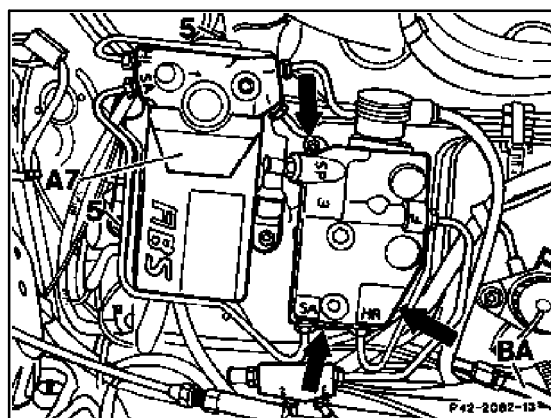
6 Renew piston seal (50).

Installation note

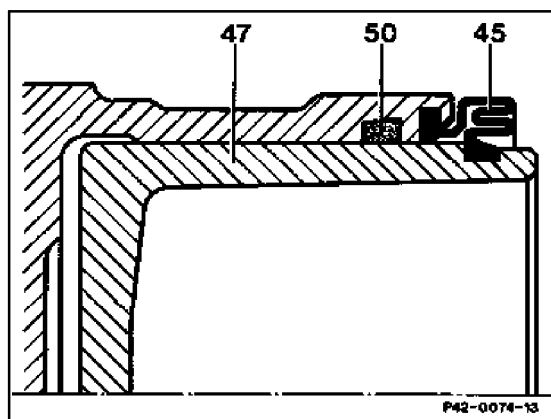
Coat piston seal (50) with ATE brake cylinder paste and insert into groove.



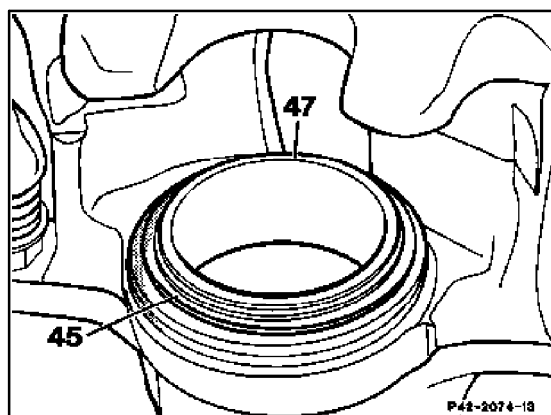
7 Install dust cap (45) on lower part (piston bottom) of piston (47).



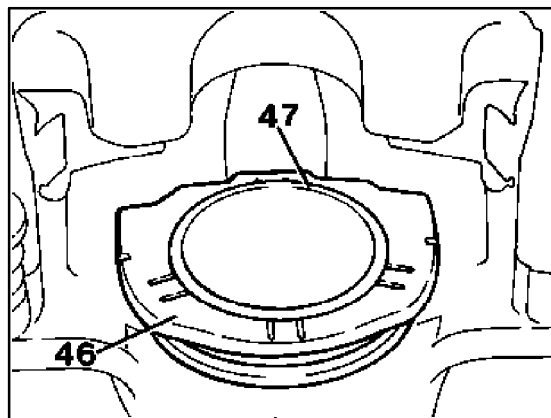
8 Position piston (47) on cylinder bore and press dust cap (45) into upper cylinder groove.



9 Press piston (47) all the way into the cylinder bore assuring that the piston does not cant and that the dust cap (45) is properly seated in the piston groove.



10 Install heat shield (46). Assure that the retaining lugs engage in the upper groove of the piston (47).



11 Remove dust sleeve (39) from brake carrier and pull out sliding bolt (37). Remove dust sleeve (39) from sliding bolt (37).

12 Clean sliding bolt (37) and sliding bolt guides in brake carrier (33). Assure that sliding bolt is not bent and that the play in the sliding bolt guide is not excessive, renew if required. Coat sliding bolt with special grease (contained in repair kit).

Installation note

Renew dust sleeves (39). Assure that dust sleeves (39) are seated properly and that the sliding bolt (37) can move easily.

