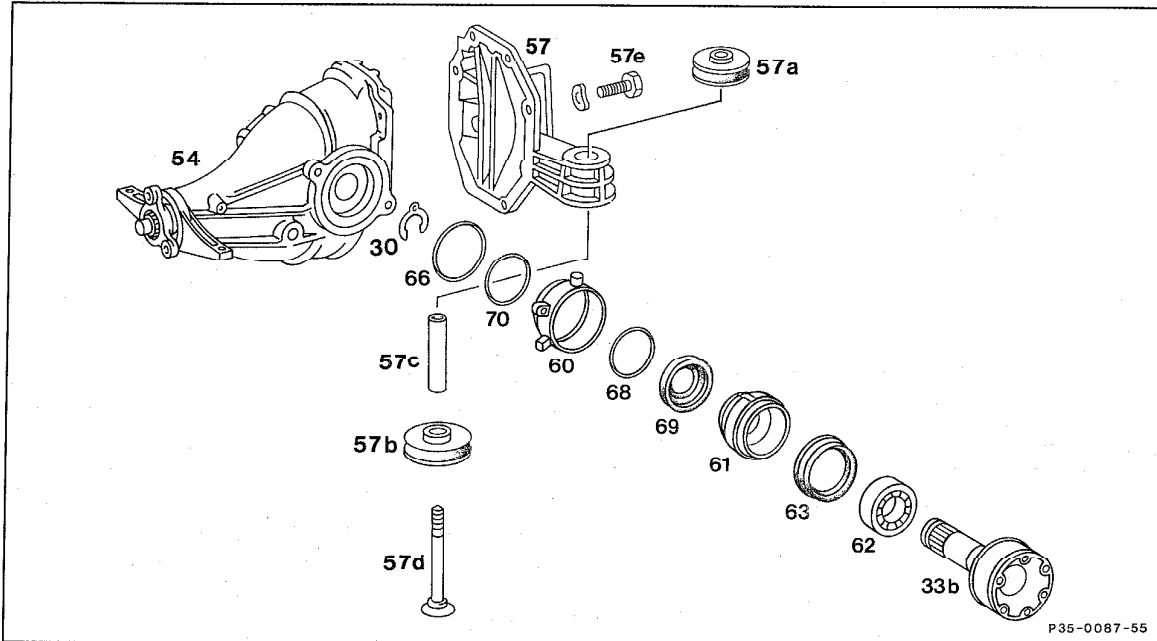


35-545 Repairing ASD ring cylinder

Preliminary work:

Connecting flange on rear axle shaft removed (35-670).



P35-0087-55

P35-0087-55

Deep grooved ball bearing (62)	pull off, press on. Basic puller unit 001 589 36 33 00, clamping tool 129 589 01 34 00 (step 1).
Ring cylinder (60)	completely remove, install, tightening torque for Allen bolts 25 Nm. Assure that O-ring (66) is not damaged when installing ring cylinder (step 2).
Radial shaft seal (69)	replace, see 35-540.
Rubber cuff (63)	press off, press on. Installation punch 124 589 01 35 00 (step 5).
Ring piston (61)	press out, press in. Replace O-rings (68 and 70). Before inserting ring piston into ring cylinder coat circumference of ring piston with hydraulic oil (step 6).

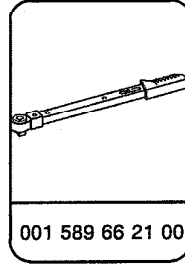
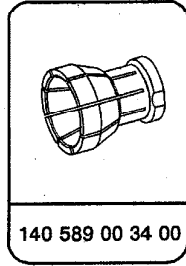
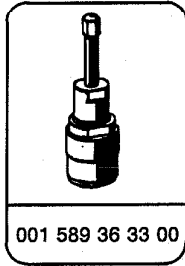
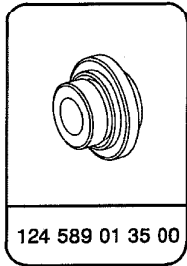
35-545 Repairing ASD ring cylinder

Oil types and capacity

Standard differential	Hypoid gear oil SAE 90 refer to Factory Approved Service Products list 1)
Limited slip differential with ASD (indicator plate on rear axle housing)	Special hypoid gear oil refer to Factory Approved Service Products list 1)
Capacity, differential housing with ring gear dia. 210	1.3 liters
Capacity, differential housing with ring gear dia. 185	1.0 liters

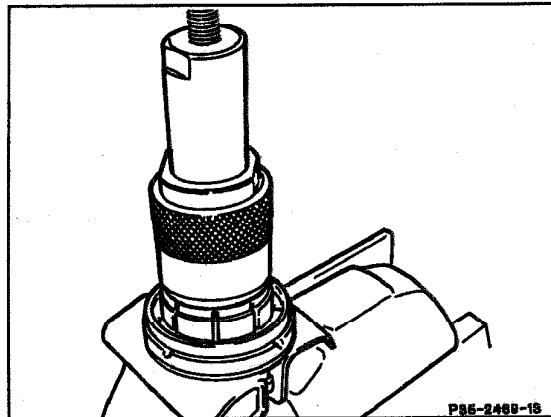
1) Supplied with owner's literature or available through your local authorized Mercedes-Benz Dealer.

Special tools



Removal, installation

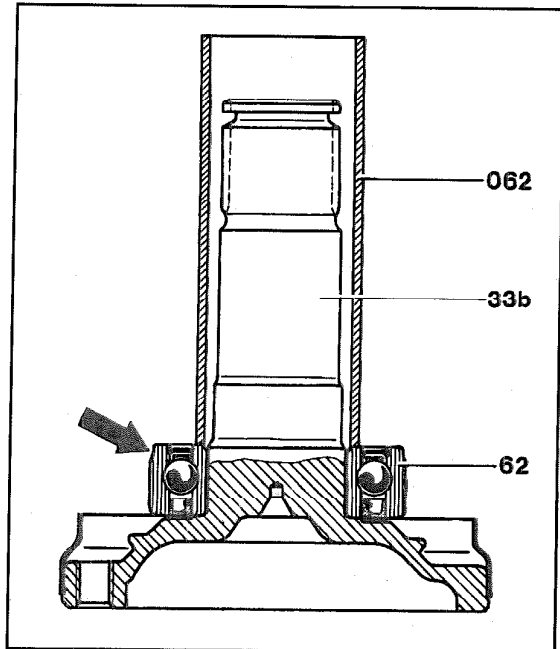
1 Press deep grooved ball bearing off of connection flange with basic puller unit 001 589 36 33 00 and clamping tool 129 589 01 34 00, press on.



35-545 Repairing ASD ring cylinder

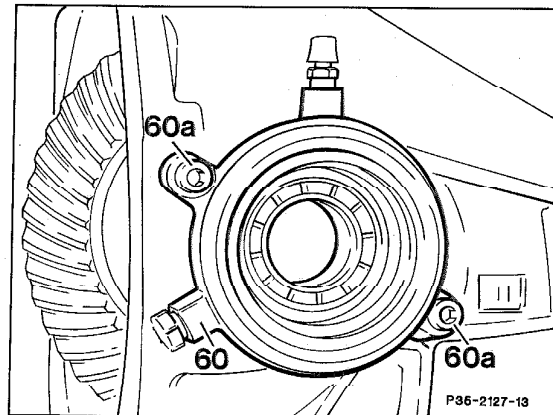
Installation note

Press deep grooved ball bearing (62) on so that bezel or groove (arrow) points toward shaft.
Press deep grooved ball bearing on with suitable pipe (062) until it makes contact on flange.



P35-0086-15

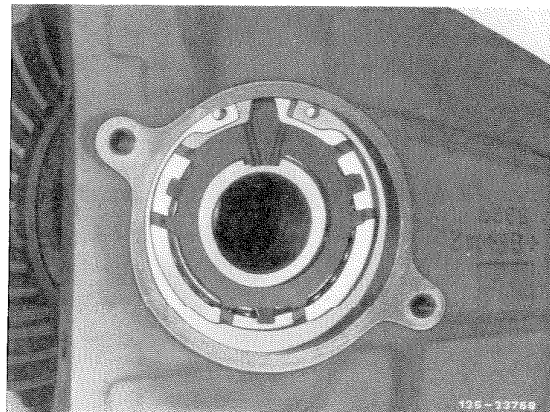
2 Screw out Allen bolts (60a) for mounting ring cylinder, screw in and remove together with ring cylinder (60).



P36-2127-13
P35-2127-13

Installation note

Assure that oil baffle plate in rear axle housing is seated correctly.



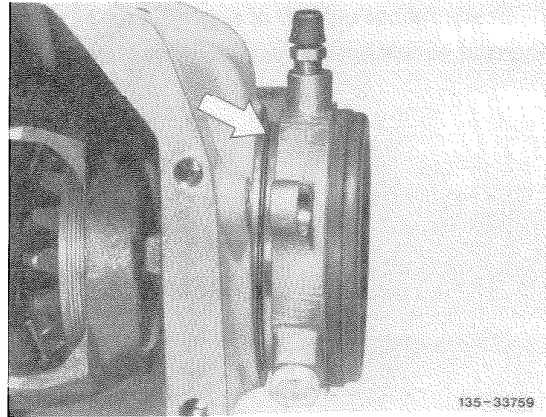
125-13768
135-33758

35-545 Repairing ASD ring cylinder

CAUTION!

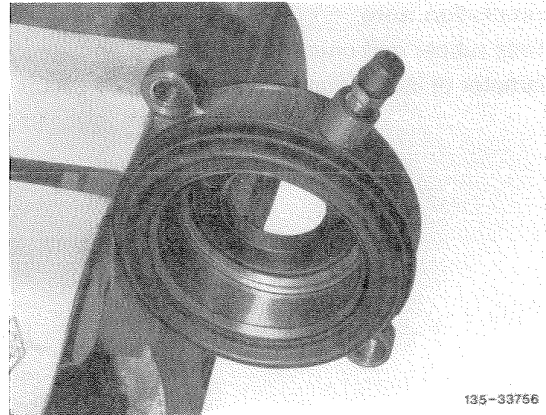
Coat circumference of O-ring on ring cylinder with oil and insert into rear axle differential housing. Assure that O-ring is not damaged (arrow).

Tightening torque for Allen bolts: 25 Nm.



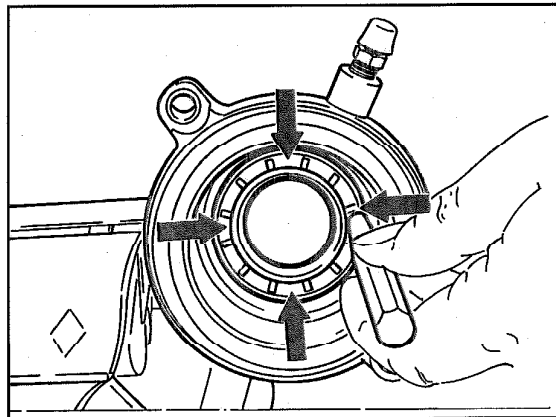
135-33759

3 Clamp ring cylinder in vise on connection for hydraulic line.



135-33756

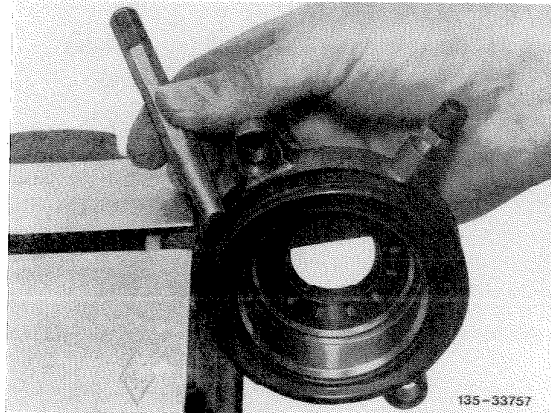
4 Press radial shaft seal out of ring piston toward rear with punch, press in (see 35-540, arrows).



P35-2128-13

35-545 Repairing ASD ring cylinder

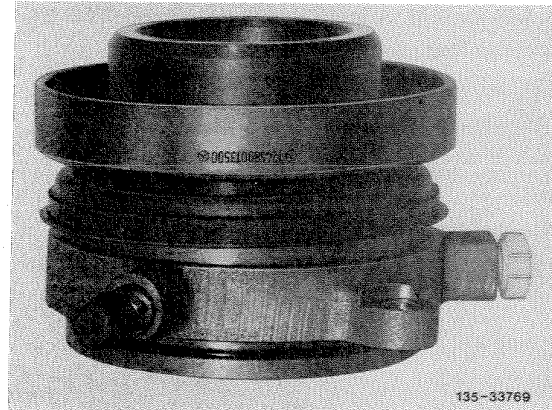
- 5 Press rubber cuff off of ring cylinder or ring piston at circumference with suitable punch.



135-33757

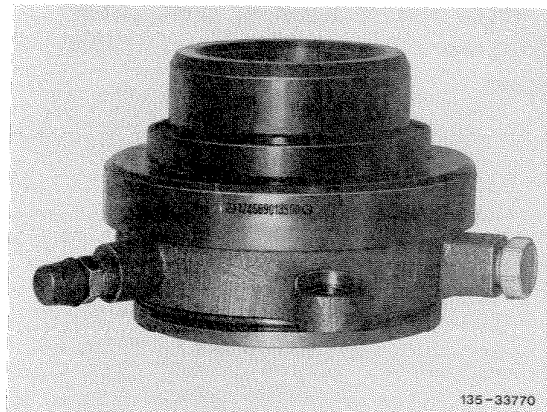
Installation note

Press rubber cuff onto ring piston with smaller diameter of installation punch 124 589 01 35 00.



135-33769

Press rubber cuff onto ring cylinder with larger diameter of installation punch 124 589 01 35 00.

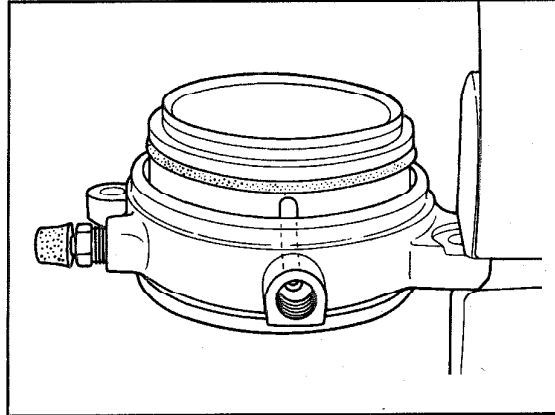


135-33770

6 Press ring piston out of ring cylinder, press in.

⚠ CAUTION!

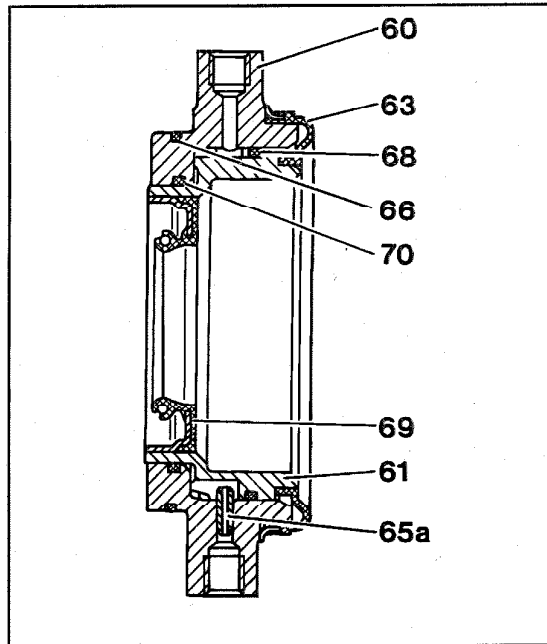
When pressing ring piston into ring cylinder assure that the groove coincides with the clamping sleeve (or bore) (dotted line).



P35-2341-13

Installation note

Replace O-rings (68 and 70) and assure that O-rings are not twisted when installing, otherwise they can be damaged when they are inserted into the ring cylinder. Coat circumference of ring piston (61) and O-rings (68 and 70) well with hydraulic oil.



P35-0085-15

- 60 Ring cylinder
- 61 Ring piston
- 63 Rubber cuff
- 65a Clamping sleeve
- 66 O-ring (80 x 2)
- 68 O-ring (72 x 3)
- 69 Radial shaft seal
- 70 O-ring (63 x 2.5)

7 Reassemble in opposite order.