

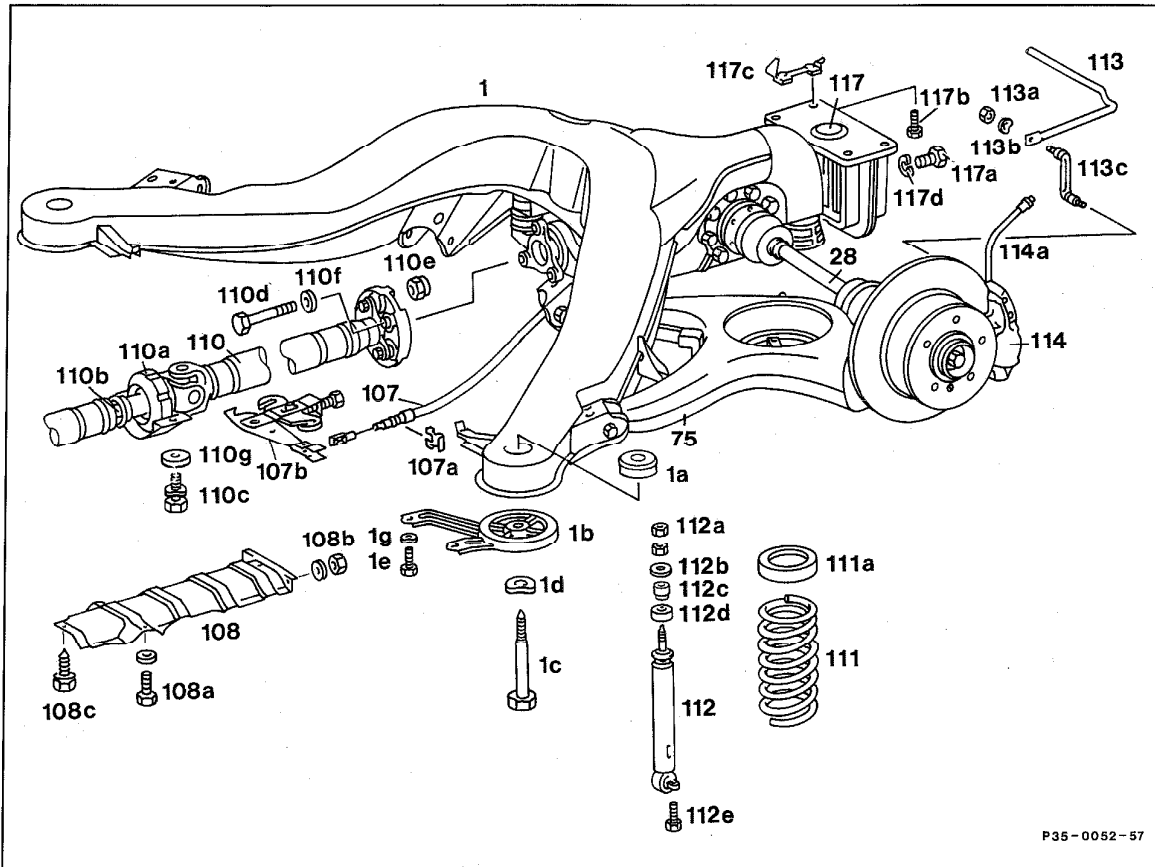
35-0010 R and R complete rear axle assembly

Preliminary work:

R and R wheels 40-0110

R and R exhaust system from the connector 49-0100

Rear axle assembly exploded view



P35-0052-57

P35-0052-57

Vehicles with ASD

ASD hydraulic unit Release pressure, Note (35-0010).

35-0010 R and R complete rear axle assembly

All Vehicles

Exhaust shield (108)	remove, install. Tightening torque of hexagon bolts (108a) and nuts (108b) 25 Nm. Torque wrench 001 589 66 21 00.
Shock absorber or spring strut (112)	remove, install (32-0610).
Rear springs (111)	remove, install (32-0230).
Anti-sway bar connection (113-113c)	dismantle, assemble (32-0310 or 32-0320).
Brake hoses (114a)	disconnect, connect. Protect brake lines and brake hoses against ingress of dirt. Bleed brake system (42-0010).
Gland nut on drive shaft (110b)	detach, tighten up. 30-40 Nm. Torque wrench 001 589 66 21 00, open end wrench 126 589 00 01 00.
Drive shaft intermediate bearing (110a)	detach hexagon bolts (110c), tighten up. 25 Nm. Torque wrench 001 589 66 21 00.
Drive shaft at rear axle (110)	detach, tighten up. (Steps 7-8).
Compensating lever on parking brake (107b)	detach, assemble (Step 9).
ABS or ASD speed sensors	detach, assemble (Steps 10-12).
ASD hydraulic line	unscrew, screw in (Step 13).
Rear axle assembly (1)	support with vehicle jack or pit lift.
Supporting plate (1b)	detach, assemble. Hexagon bolts on rubber mount 120 Nm and hexagon bolts (M10) 40 Nm (Step 15). Torque wrenches 001 589 66 21 00, 001 589 67 21 00.
Rear rubber mount (117) on frame floor	detach, assemble. Replace threaded holder (117c). Tightening torque of hexagon bolts (117b) 30 Nm. Torque wrench 001 589 66 21 00 (Step 16).
ASR speed sensor	Lower rear axle carefully. Detach, assemble speed sensor (Step 17).
Rear axle assembly (1)	lower, raise (Step 18).
Rear rubber mount (117) on rear axle carrier	detach, assemble and check for damage. Tightening torque of hexagon bolts 120 Nm. Torque wrench 001 589 67 21 00 (Steps 19-20).

35-0010 R and R complete rear axle assembly

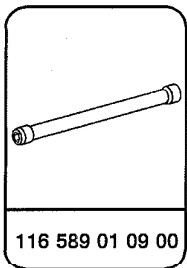
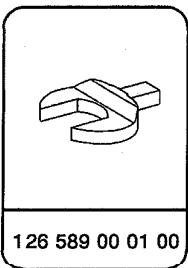
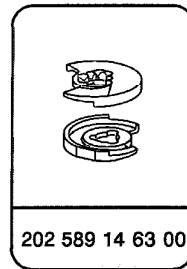
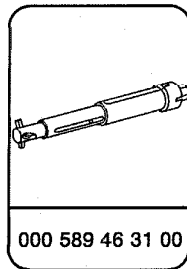
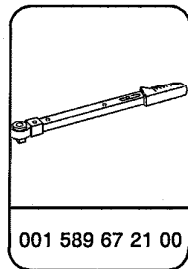
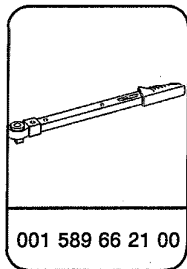
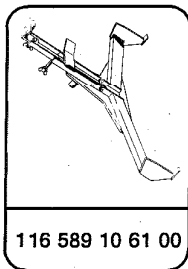
All Vehicles

Rubber stop (1a)	check for damage (Step 21).
Position of semi-trailing arm	check (40-0300).
Headlamp adjustment	check (82-0250).

Oil type and capacities

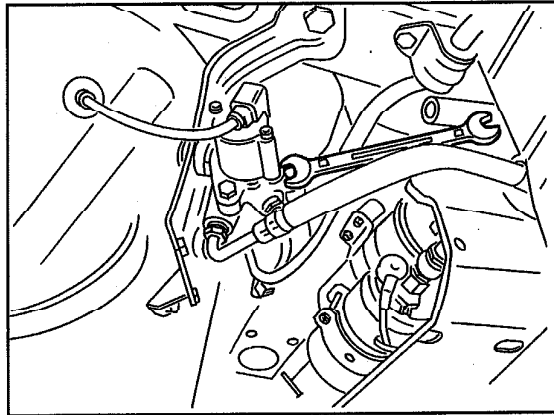
Standard differential		Hypoid gear oil SAE 90 refer to factory approved service products list
Limited slip differential or automatic differential locking (ASD) Data plate on differential housing		Special Hypoid gear oil refer to factory approved service products list
Capacities	Large differential (Ø 210 mm)	1,3 liters
	Medium differential (Ø 185 mm)	1,0 liter

Special tools



Note

The hydraulic pressure in the hydraulic unit is to be released on vehicles with ASD.
Remove rear axle only with wheels removed first to avoid damage to rear axle shaft during transportation of complete units.
The sequence of operations when removing and installing is identical on the 107 and 126 Models, any differences being pointed out.



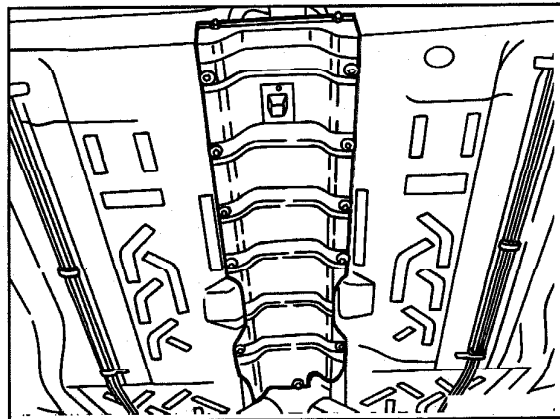
P35-2209-13

Removal and installation

- 1 Remove, install exhaust shield.

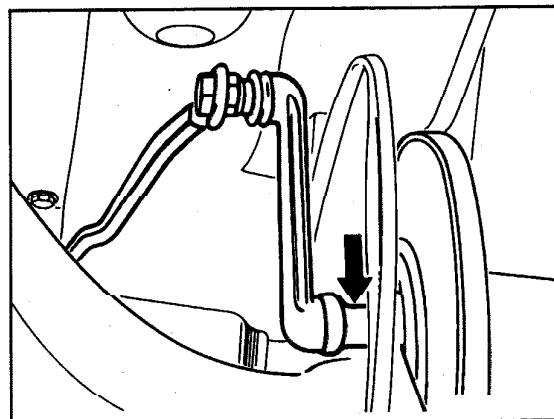
Note

The tightening torque of the M8 hexagon bolts or hexagon nuts is 25 Nm. Torque wrench 001 589 66 21 00.



P27-2169-13

- 2 Remove, install shock absorber or spring strut (32-0110 or 32-0610).
- 3 Remove, install rear springs (32-0230).
- 4 Detach, assemble torsion bar connection on semi-trailing arm or coupled semi-trailing arm (32-0310 or 32-0320).

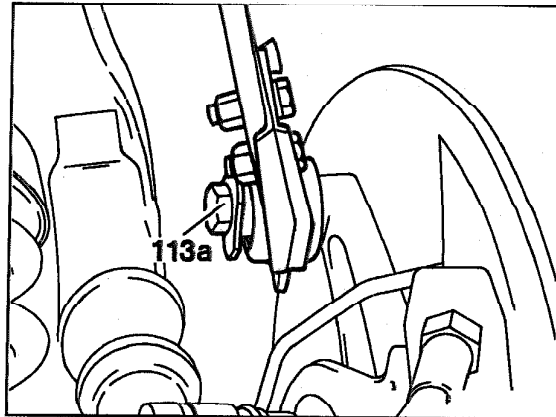


P35-2462-13

Arrangement with semi-trailing arm

35-0010 R and R complete rear axle assembly

Arrangement with coupled semi-trailing arm

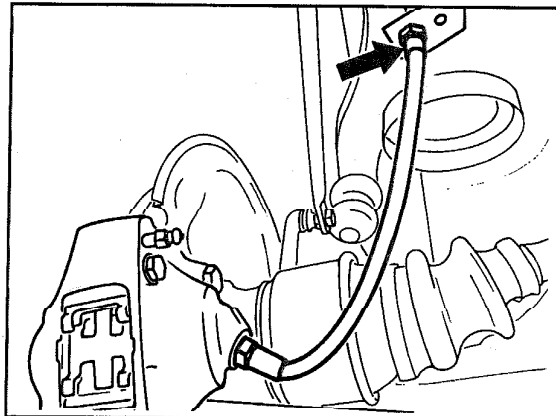


P35-2165-13

5 Unscrew, screw in both brake hoses and seal brake lines to prevent ingress of dirt.

Note

Bleed brake system (42-0010).

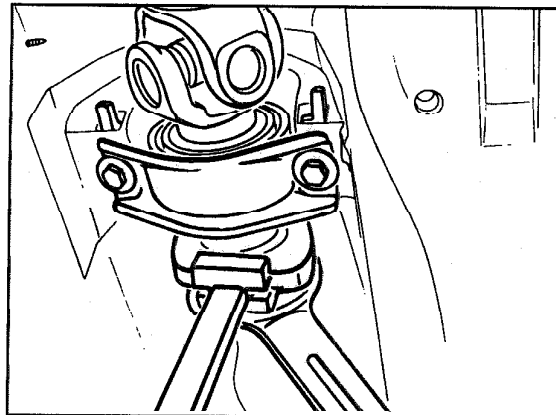


P35-2461-13

6 Detach gland nut of drive shaft and detach hexagon bolts of the drive shaft intermediate bearing on frame floor and remove.

Note

Gland nut	30-40 Nm
Drive shaft intermediate bearing	25 Nm
Torque wrench	001 589 66 21 00
Open end wrench 46 mm	126 589 00 01 00.



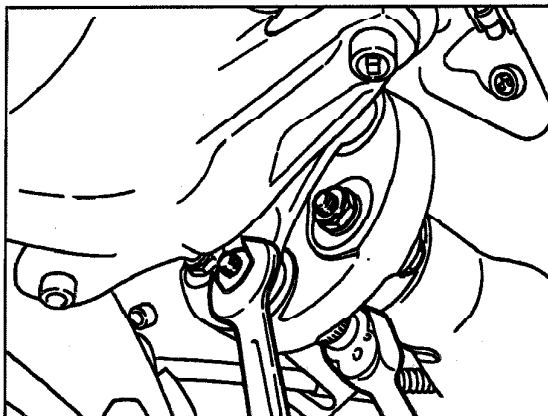
P41-2044-13

35-0010 R and R complete rear axle assembly

7 Detach, assemble drive shaft at differential housing.

Note

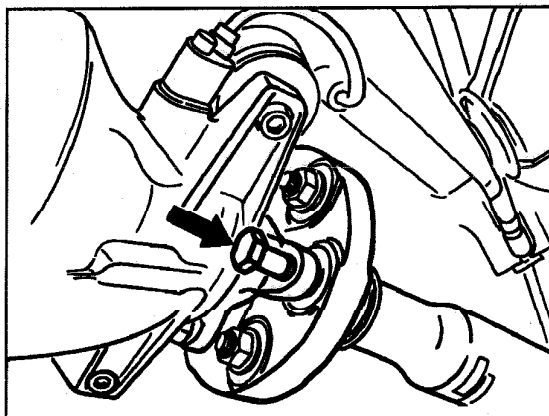
Replace self-locking hexagon nuts.
Tightening torque M10 = 45 Nm;
M12 = 60 Nm.
Torque wrench 001 589 66 21 00.



P35-2218-13

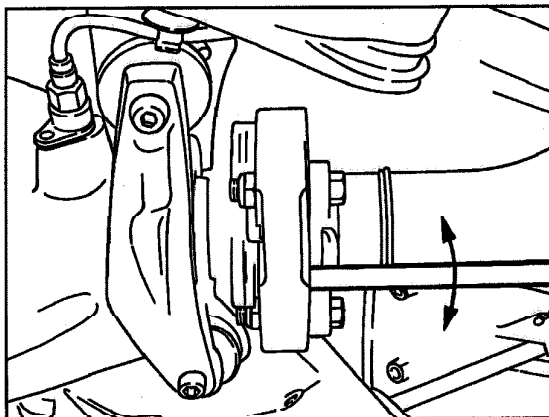
Note

For reasons of space, the three hexagon bolts for attaching the flexible disc to the joint flange must be assembled from the rear forwards on models 126.03/04 up to about the beginning of October. The bolts can only be screwed in when joint flange is at the level of the differential housing as indicated with the arrow.



P35-2467-13

8 Push drive shaft forwards out of the centering. Prior to this loosen the fitting sleeves radially out of the joint flange with a suitable mandrel.

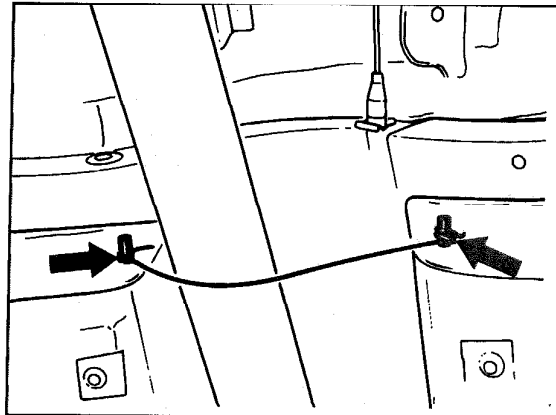


P35-2214-13

35-0010 R and R complete rear axle assembly

CAUTION!

Prevent drive shaft from falling down with binding wire, e.g. use the two mounting bolts of the exhaust shield (arrows).

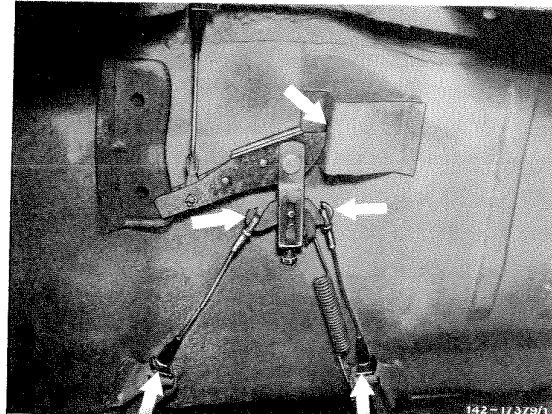


P35-2463-13

9 Remove parking brake compensating lever, detach and assemble cables (42-0525).

Note

Adjust parking brake (42-0525).

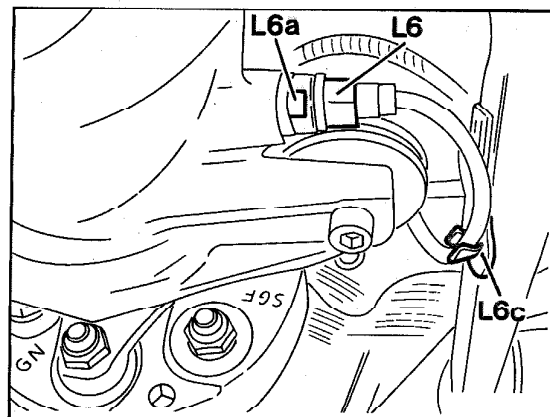


142-17379/1

10 Unscrew, screw in hexagon socket bolt (L6a) and remove speed sensor (L6) from the differential housing.

11 Cover the magnetic tooth of speed sensor and opening of differential housing.

12 Remove speed sensor line from the clip (L6c) and rubber grommet at rear axle carrier. Attach speed sensor to frame floor with binding wire.

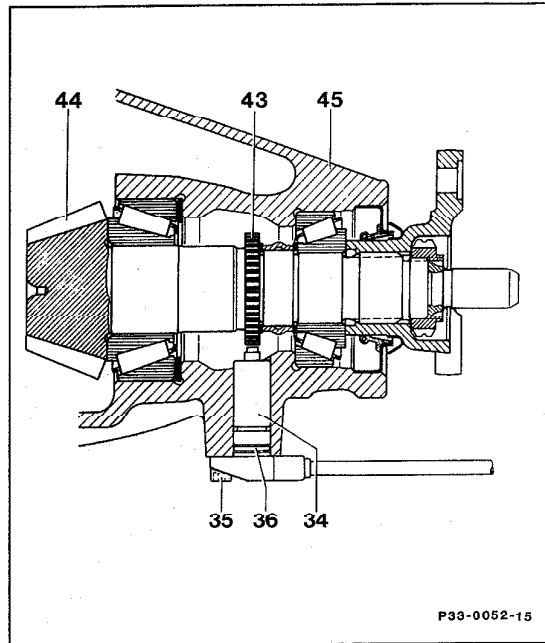


P35-2216-13

35-0010 R and R complete rear axle assembly

Note

Replace self-locking hexagon socket bolt (35). Tightening torque 8 Nm. Check O-ring (36) for damage and replace if required. Ensure that there are no metallic residues present on the magnetic tooth. Ensure leads are routed properly. Check oil level and replenish to level of the oil filler opening.



P33-0052-15

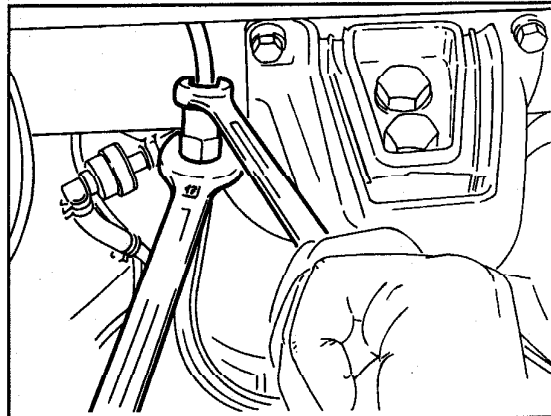
P33-0052-15

Vehicle with ASD

13 Detach HS line on the hose connector at the level of the rubber mount and provide connections with suitable rubber plugs.

Note

Check line connection for leakage and hose is correctly routed. Bleed hydraulic system. Remove ASD control unit and bridge terminals 8 and 10. Allow engine to idle and open bleed screw until no air bubbles escape (35-0519).



P35-2092-13

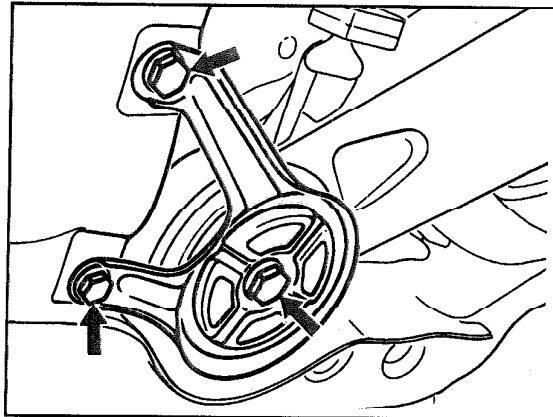
35-0010 R and R complete rear axle assembly

14 Slip vehicle jack top (116 589 10 61 00) with vehicle jack or a pit lift under the rear axle and lift up to stop.

15 Unscrew, screw in supporting plate of the front rubber mounts to frame floor (arrows).

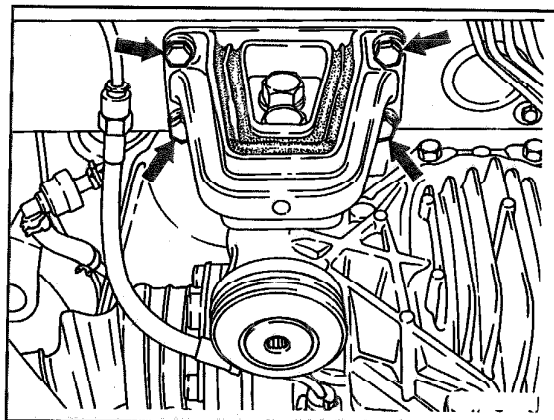
Note

Tighten up hexagon bolts of rubber mount to 120 Nm and hexagon bolts (M10) of supporting plate to 40 Nm. Torque wrenches 001 589 66 21 00, 001 589 67 21 00.



P35-2460-13

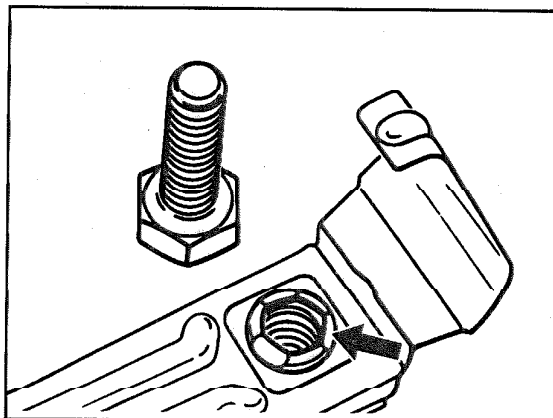
16 Unscrew, screw in rear rubber mount on frame floor (arrows).



P35-2184-13

Note

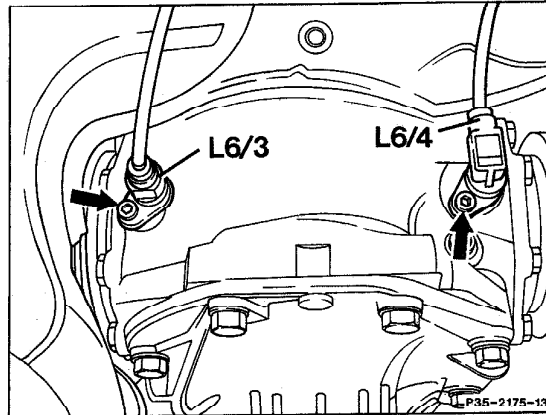
Tightening torque of hexagon bolts is 30 Nm. Basically hexagon bolts and threaded brackets should be replaced after one-time use. Torque wrench 001 589 66 21 00.



P35-2466-13

Vehicles with ASR

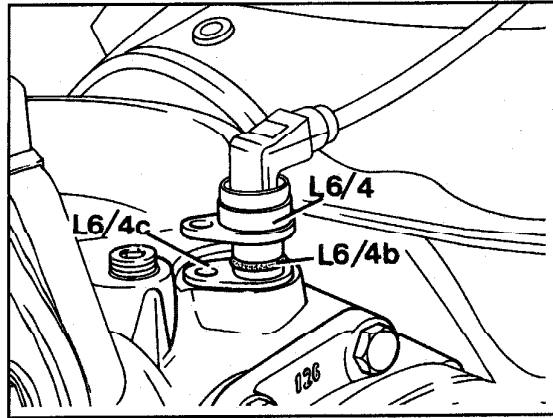
17 Carefully lower rear axle sufficiently until there is access for detaching the self-locking hexagon socket bolts of the speed sensors (L6/3, L6/4). Do not subject the lines to tensile loads. Unscrew, screw in hexagon socket bolt (arrows) and remove the speed sensors (L6/3, L6/4) from the differential housing. Cover magnetic tooth and put to one side.



P35-2175-13

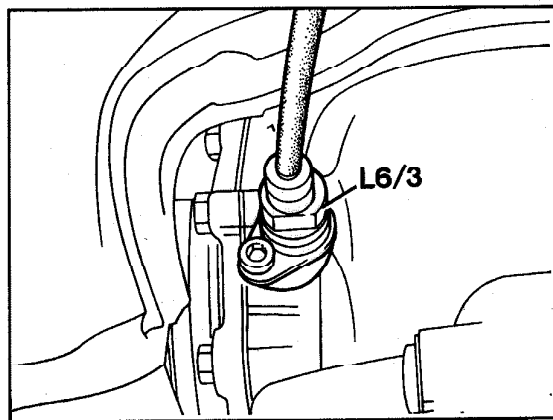
Note

Replace self-locking hexagon socket bolts. Check O-ring (L6/4b) for damage and replace if required. Ensure that there are no metallic residues on the magnetic tooth. Check the spacer shim for correct seating (L6/4c). Check oil level and replenish, if required.



P35-2176-13

Arrangement of right hand speed sensor with angled exit (L6/4)



P35-2177-13

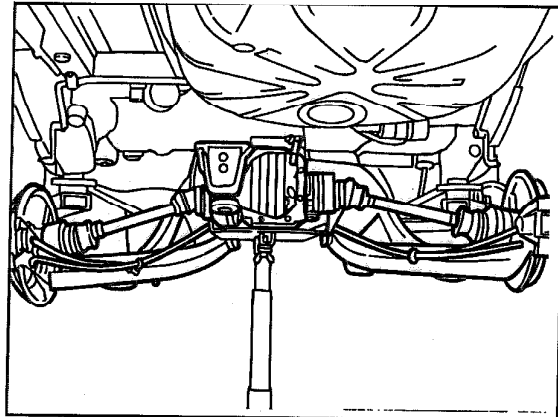
Arrangement of left hand speed sensor with straight exit (L6/3)

35-0010 R and R complete rear axle assembly

18 Carefully lower rear axle.

⚠ CAUTION!

When lowering and transporting rear axle do not damage cover plates of brake discs.



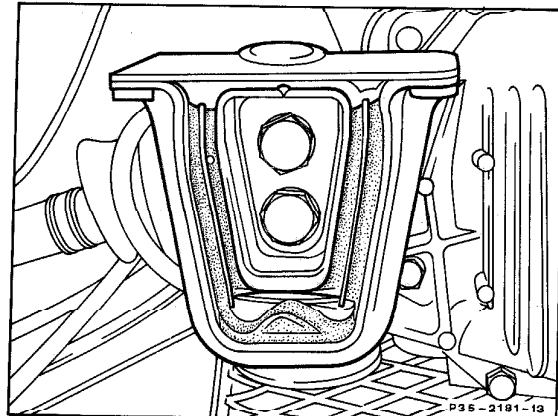
P35-2169-13

19 Unscrew, screw in rear rubber mount on rear axle carrier.

Note

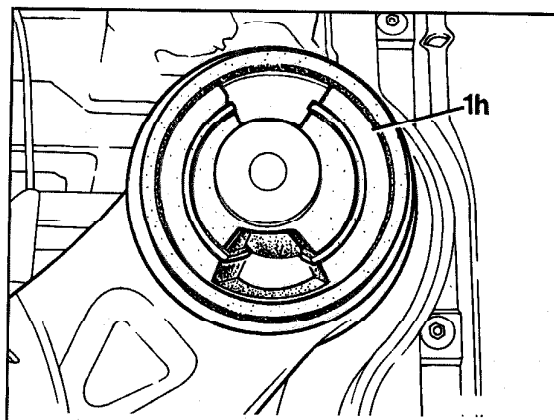
Check rubber mount for damage and replace, if required. Tightening torque of hexagon bolts is 120 Nm.

Torque wrench 001 589 67 21 00.



P35-2181-13

20 Check front rubber mount on the rear axle carrier for damage and replace, if required (35-0040).

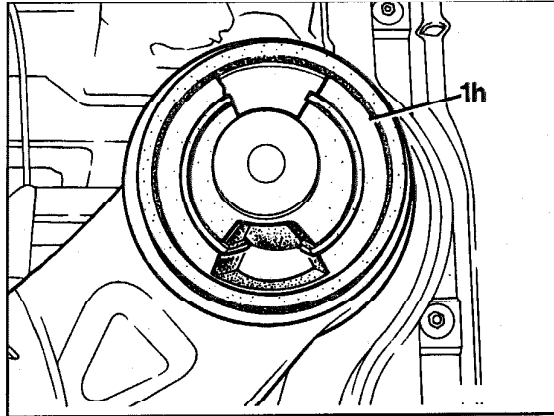


P35-2180-13

Arrangement of right hand kidney-shaped rubber mount (1h)

35-0010 R and R complete rear axle assembly

21 Check rubber stop on frame floor for damage. Replace damaged rubber stop (arrow).

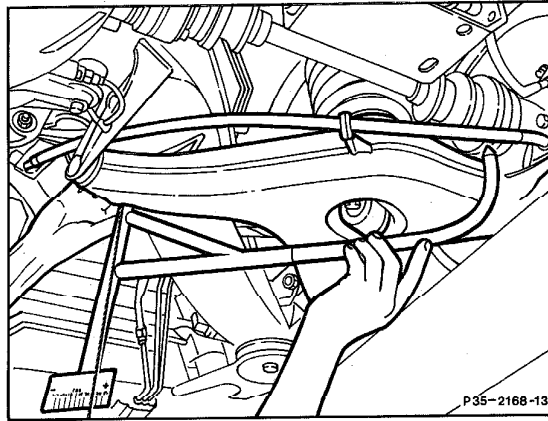


P35-2180-13

22 Installation takes place in the reverse sequence.

23 Check position of semi-trailing arm (40-0300).

24 Check headlamp adjustment (82-0250).



P35-2168-13