

D. Model 126

Oil grades and filling capacity

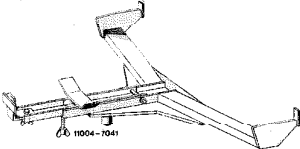


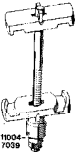


Standard differential	Hypoid gear oil SAE 90 refer to specifications for service products page 235	
Differential with limited slip (positive traction) (information plate on rear axle housing)	Special hypoid gear oil refer to specifications for service products page 235.3	
Filling capacity	large center piece	1.3 liter
	small center piece	1.0 liter

Tightening torques

Nm

Hex. bolts for attaching rear rubber bearing to end cover	120
Hex. bolts for attaching rear rubber bearing to frame floor	30
Hex. bolts for attaching front rubber bearing to frame floor	120
Hex. bolts for attaching supporting plate to frame floor	40
Clamping nut of propeller shaft	30-40
Hex. bolts for attaching propeller shaft intermediate bearing to frame floor	25

Special tools

Vehicle jack top for removal and installation of complete rear axle		116 589 10 61 00
Torque wrench 25-130 Nm with plug-in ratchet 1/2" square		116 589 66 21 00
Torque wrench 40-200 Nm with plug-in ratchet 1/2" square		001 589 67 21 00
Open end wrench 46 mm for torque wrench for clamping nut of propeller shaft		126 589 00 01 00
Spring tensioner for rear spring		115 589 00 31 00
Tubular socket wrench 24 mm, 1/2" square for spring tensioner		116 589 01 09 00

35-010 R and R complete rear axle

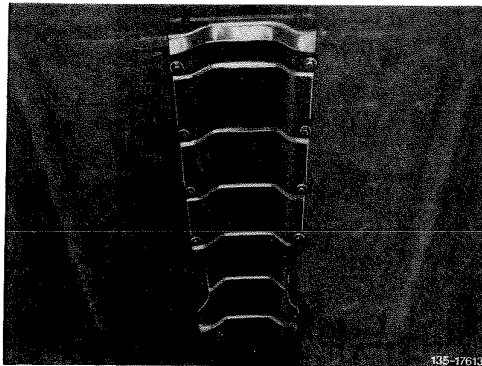
Note

On vehicles with hydro-pneumatic suspension, pay attention to "General jobs on vehicles with hydro-pneumatic suspension" (32-600).

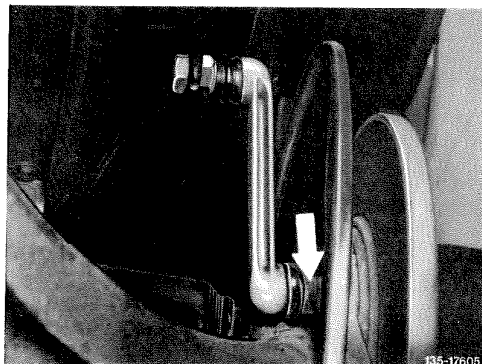
Take off rear axle only with wheels removed, since otherwise damage to rear axle shafts may result during transportation of complete unit.

Removal

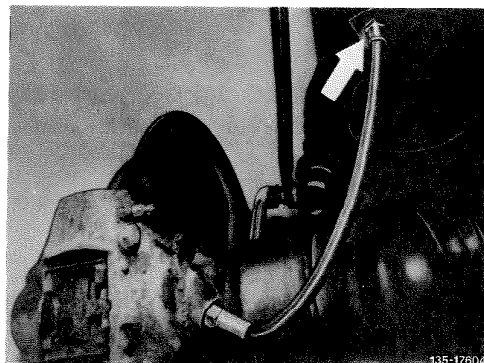
- 1 Remove exhaust system (49-100).
- 2 Unscrew exhaust shielding plate.
- 3 Remove shock absorbers or spring struts (32-110 or 32-610).



- 4 Remove rear springs (32-230).
- 5 Loosen torsion bar connection to rear axle and remove (32-310 or 32-320).

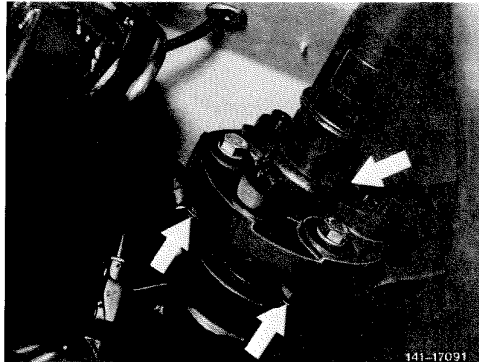


- 6 Unscrew both brake hoses and close brake lines against penetration of dirt.



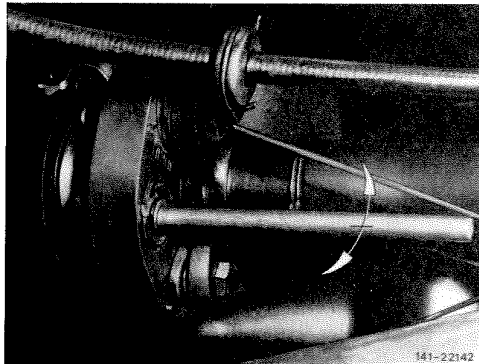
7 Unflange propeller shaft at rear (arrows).

8 Slide propeller shaft out of centering in forward direction.

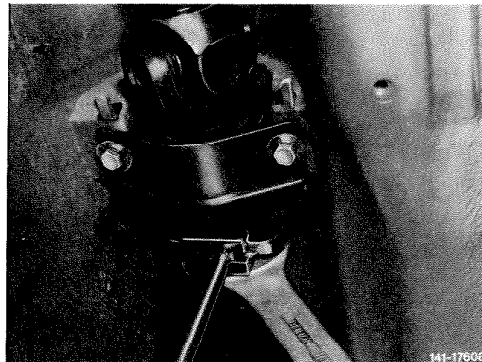


Attention!

On vehicles with manual 5-speed transmission (starting October 1981), prior to sliding back propeller shaft, loosen fitted sleeves in universal flange by means of a cylindrical mandrel of 10 mm dia. and approx. 150 mm long. For this purpose, introduce mandrel each time into a fitted sleeve and move in radial direction (arrow). Only then slide propeller shaft out of centering in forward direction to prevent damage to companion plate.



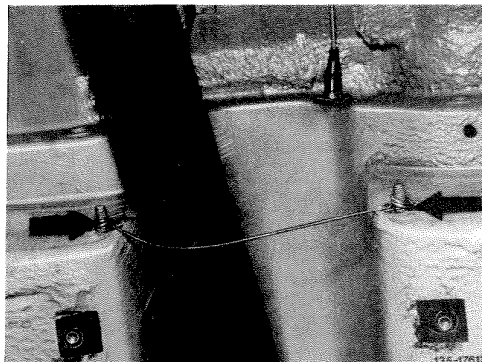
9 Loosen clamping nut and unscrew propeller shaft intermediate bearing on frame floor.



10 Slip propeller shaft out of centering in forward direction.

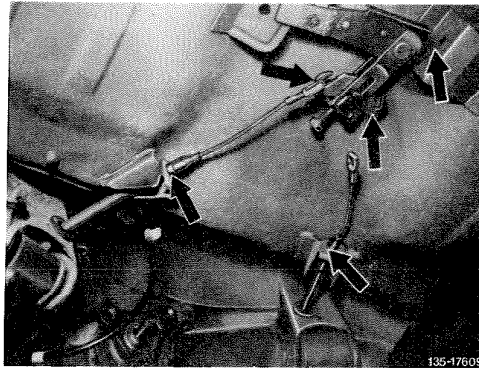
Attention!

Secure propeller shaft against falling down by means of binding wire, using both fastening screws of exhaust shield plate for this purpose (arrows).



35-010 R and R complete rear axle

11 Remove intermediate lever of parking brake and disconnect cable controls (refer to arrows) (42-525).

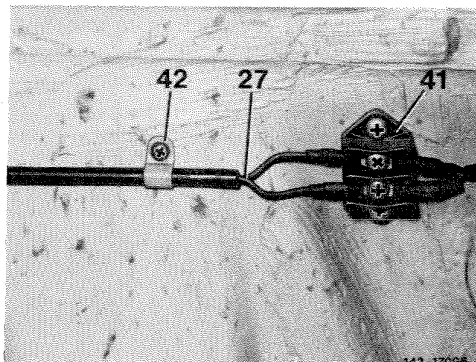


12 On vehicles with ABS

a) Loosen cable connection (41) of rpm sensor behind rear seat backrest with ignition switched off and remove. Loosen clamps (42) and remove.

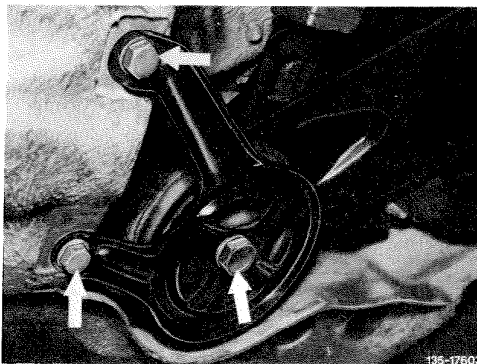
b) Pull out cable (27) in downward direction through rubber grommet in frame floor and protect against damage.

27 Cable
41 Cable connector
42 Clamp



13 Slip vehicle jack top with a vehicle jack or pit lift under rear axle and lift up to rest.

14 Unscrew supporting plates of front rubber bearing on frame floor.

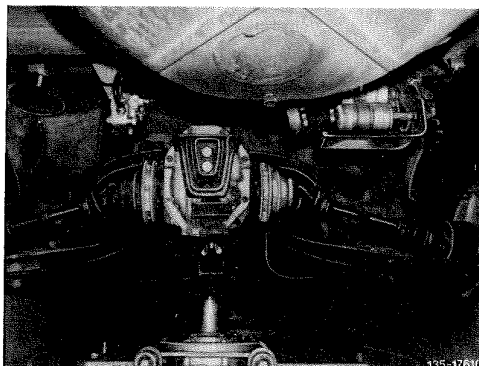


15 Unscrew rear rubber bearing on frame floor.

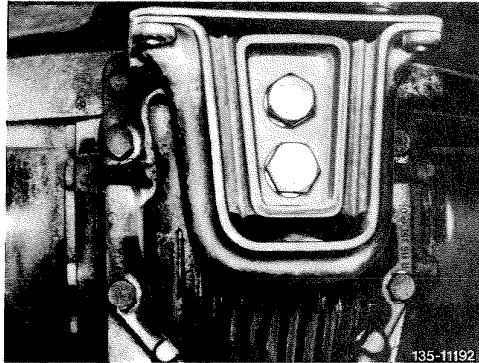
16 Carefully lower rear axle.

Attention!

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

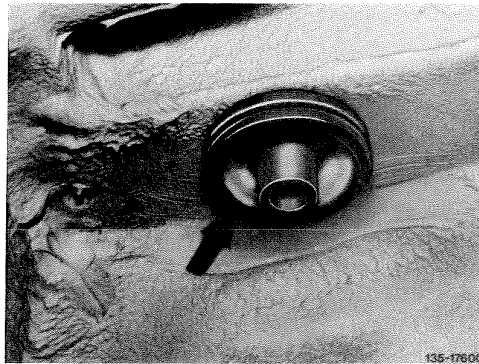


17 Unscrew rear rubber bearing from rear axle and cover.



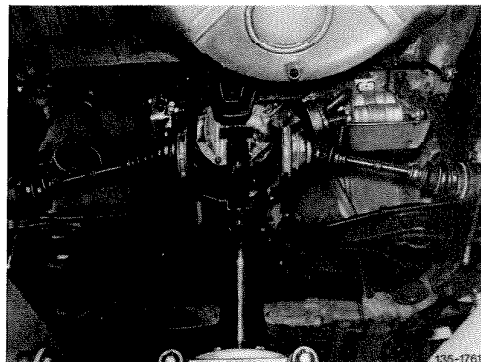
18 Check front and rear rubber bearing for damage and renew, if required.

19 Check stop rubber on frame floor for damage. Replace damaged stop rubber.



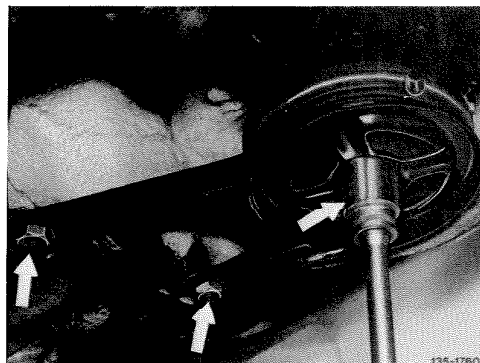
Installation

20 Attach rear rubber bearing to rear axle end cover. Tighten hex. bolts to 120 Nm.



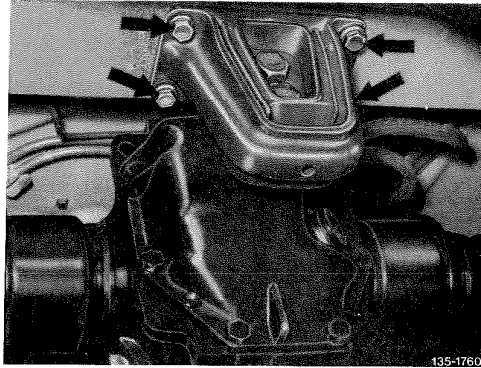
21 Lift rear axle with vehicle jack top and insert front rubber bearing into guide on frame floor by means of a suitable mandrel.

22 Mount supporting plates of rubber bearings on frame floor. Tighten hex. bolts of rubber bearings to 120 Nm and hex. bolts of supporting plates to 40 Nm.



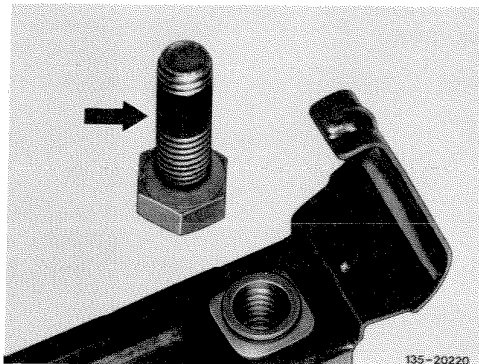
35-010 R and R complete rear axle

23 Mount rear rubber bearing on frame floor with new self-locking hex. screws. Tightening torque of self-locking hex. screws version 1 or hex. screws version 2 amounts to 30 Nm.



24 In the event of repairs, replace version 1 by version 2.

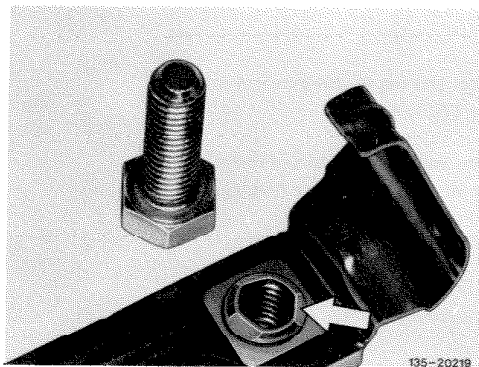
Version 1
Self-locking hex. screws
(arrow) and holder with nut
without lock



Attention!

Always renew holder of version 2 after one-time use.

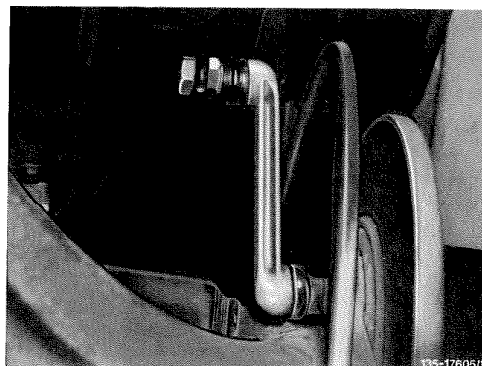
Version 2
Hex. screws without lock
and holder with self-locking
nuts (arrow)



25 Remove vehicle Jack top.

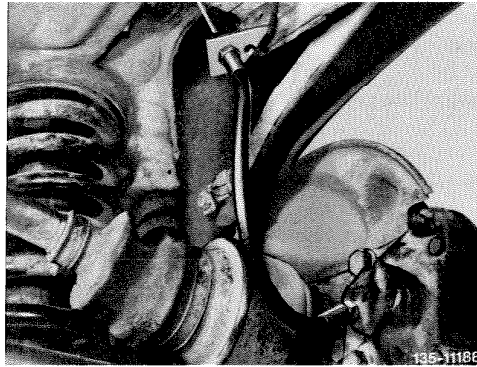
26 Mount torsion bar connection to rear axle
(32-310 or 32-320).

27 Install rear springs (32-230).



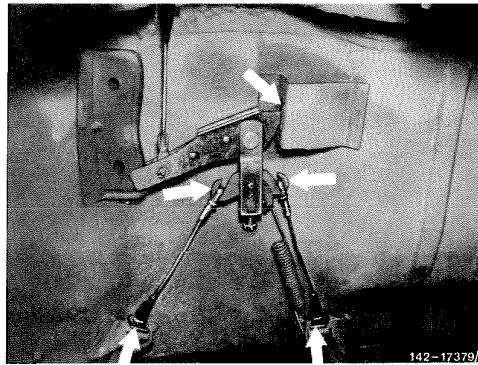
35-010 R and R complete rear axle

28 Install shock absorbers or spring struts (32-110 or 32-610).



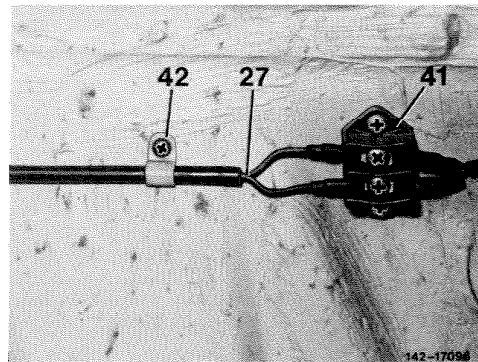
29 Connect both brake hoses and bleed brake system (42-010).

30 Attach cable controls of parking brake and mount holder. Adjust parking brake (42-525).



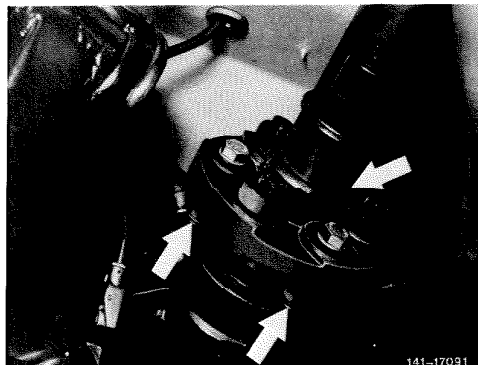
31 On vehicles with ABS

Pull cable (27) for rpm sensor in upward direction through rubber grommet in frame floor and connect to cable connector (41). Attach cable with clamps (42).



32 Attach propeller shaft to centering on drive pinion and connect to joint flange of rear axle.

33 Remove binding wire holding propeller shaft.

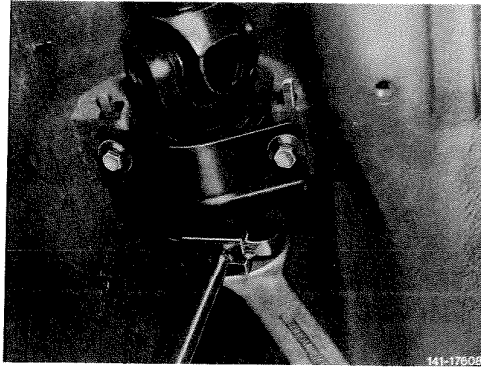


35-010 R and R complete rear axle

34 Screw-on propeller shaft intermediate bearing, but do not yet tighten.

35 Tighten clamping nut on propeller shaft to 30–40 Nm.

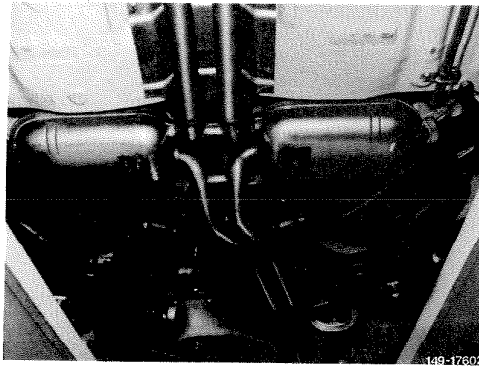
36 Tighten propeller shaft intermediate bearing to 25 Nm.



37 Mount shielding plate.

38 Install exhaust system (49–100).

39 Check oil level in rear axle and fill in oil up to level filler hole, if required.



40 Check semi-trailing arm position (40–300).

41 Check head lamp adjustment (82–250).

