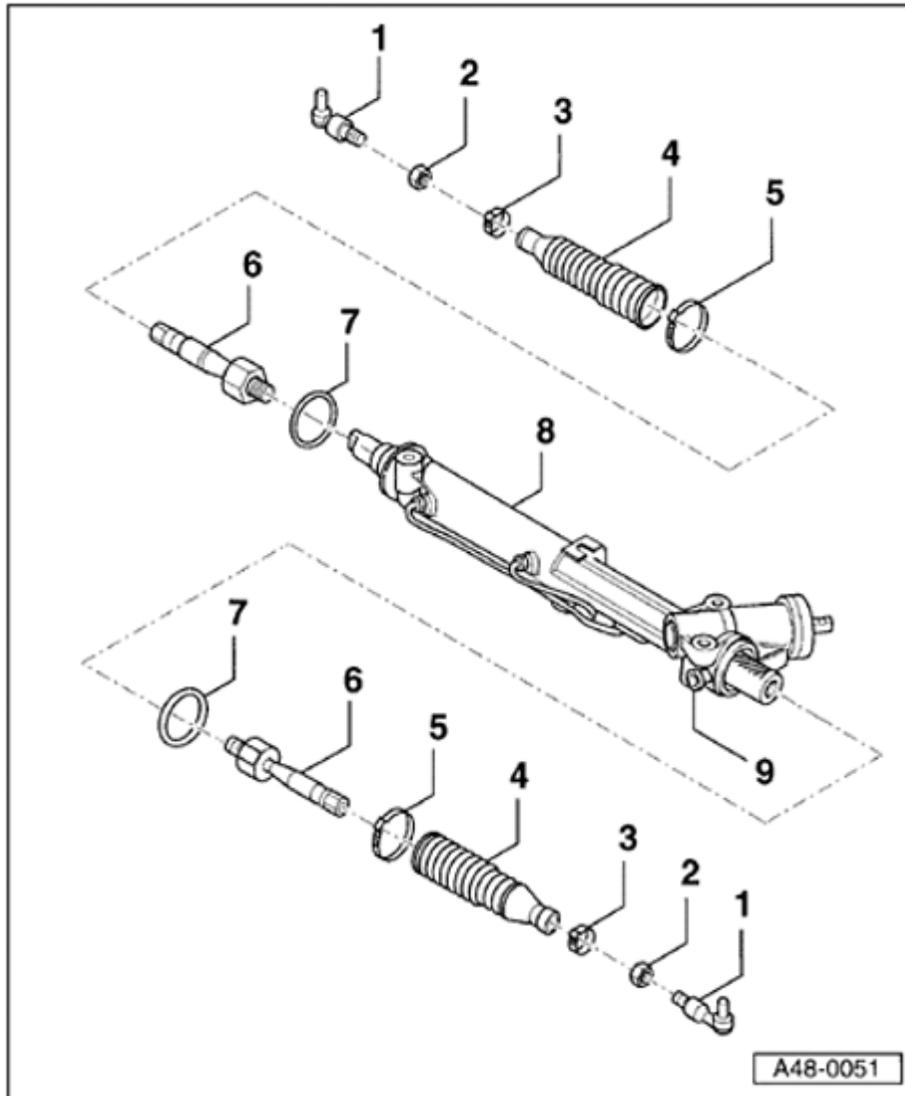


Power steering gear, disassembling and assembling

Disassembling and assembling power assisted steering gear for vehicles with 4-cyl. engine

This overview is provisionally for all vehicles

No provision is made for servicing the power steering gear. For complaints, determine the cause with the help of the pressure test.



Notes:

- ◆ Replace self-locking nuts and bolts.
- ◆ Welding and straightening work on steering components is not permitted.
- ◆ Only use steering gear grease, Part No. AOF 063 000 04 to grease the rack.
- ◆ Hydraulic oil: Part No. G 002 000
- ◆ Quantity of oil in system approx. 1 ltr.

1 - Tie rod ball joint

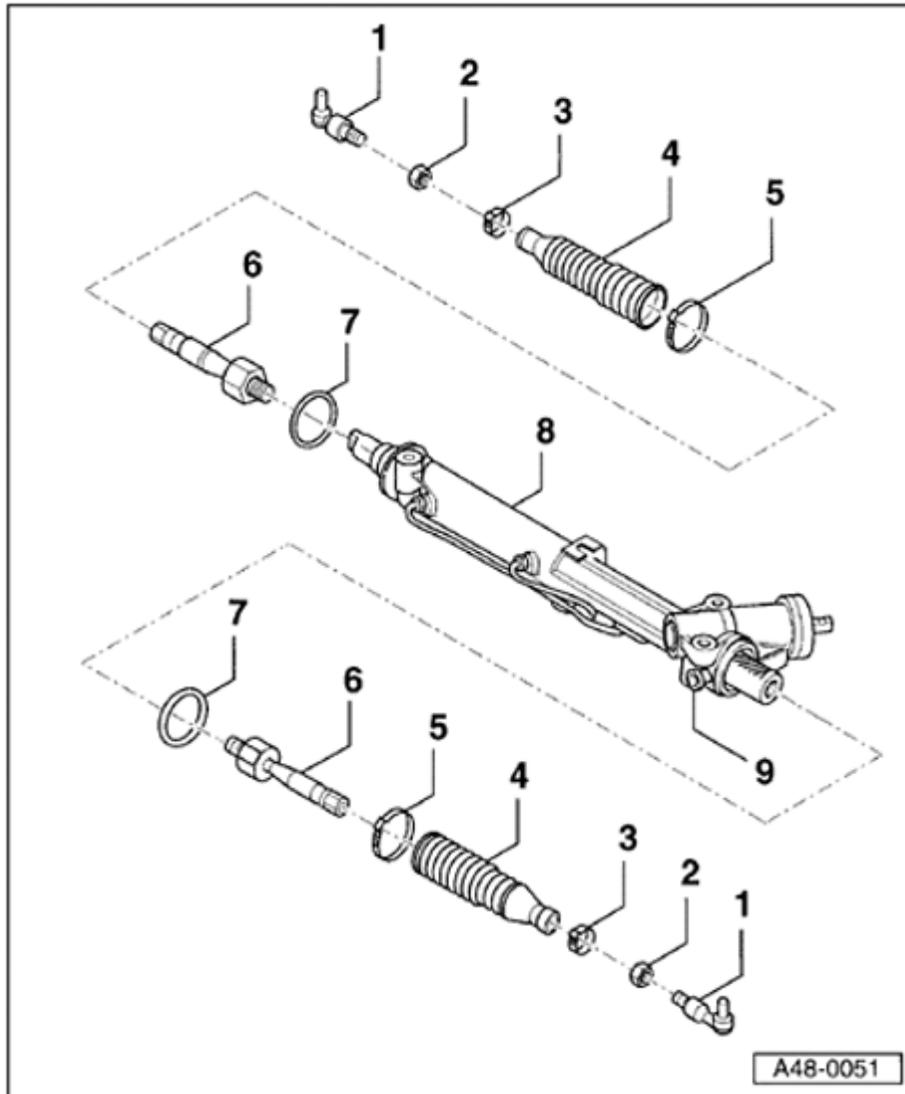
- ◆ Check dust caps are seated correctly and not damaged

Modification ⇒ [Page 40-23](#)

2 - Hex nut, 40 Nm

3 - Hose clip

- ◆ Tension with VAG 1275
- ◆ Always replace



4 - Boot

- ◆ Check for damage
- ◆ Can be replaced with steering gear installed
- ◆ Must not be twisted after adjusting track

5 - Hose clip

- ◆ Tension with VAG 1275
- ◆ Always replace

6 - Inner tie rod joint, 100 Nm

- ◆ Grease joint with steering gear grease A0F 063 000 04

7 - O-ring

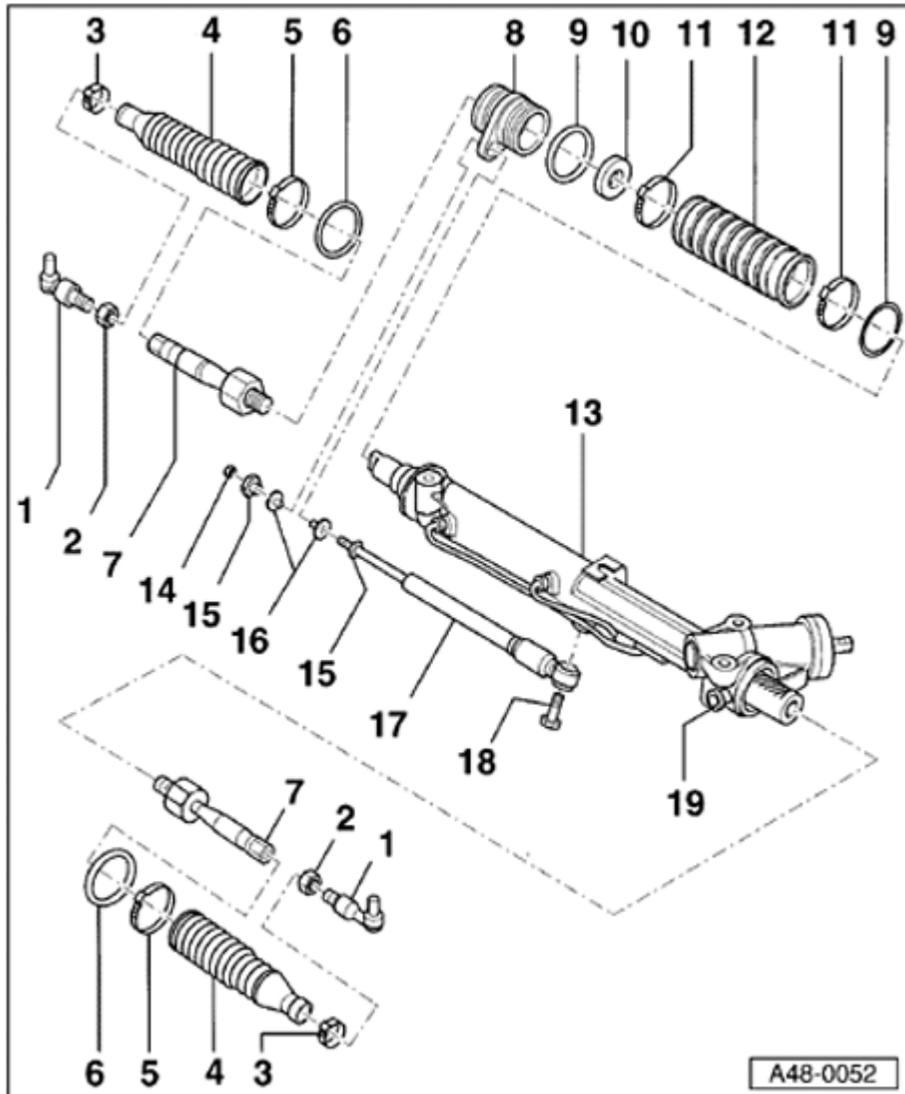
- ◆ Always replace

8 - Power steering gear

- ◆ Grease rack with steering gear grease A0F 063 000 04

The steering gear is supplied as a spare part complete with inner Tie rod joint and boot

9 - Socket head bolt, 18 Nm



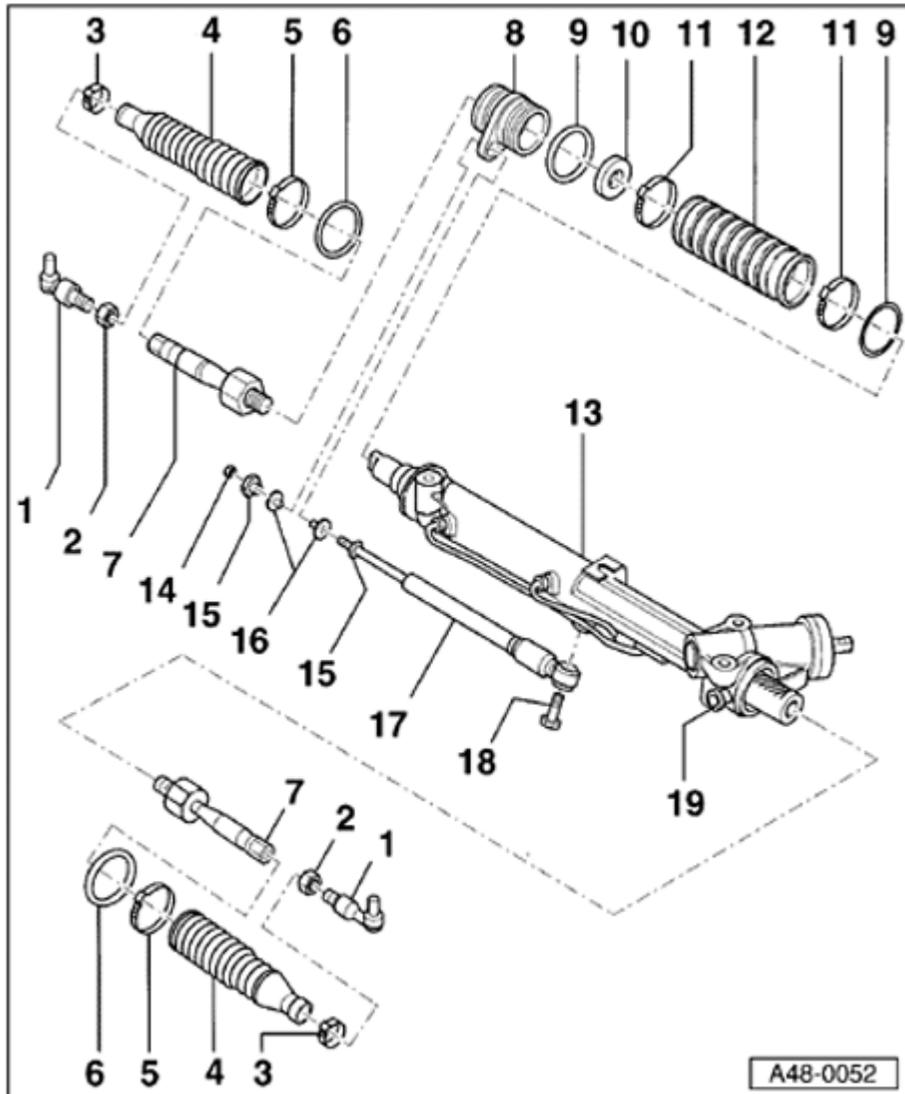
Power steering gear for vehicles with 5, 6 or 8-cylinder engine, disassembling and assembling

This overview is provisionally for all vehicles

No provision is made for servicing the power steering gear. For complaints, determine the cause with the help of the pressure test.

Notes:

- ◆ Replace self-locking nuts and bolts.
- ◆ Welding and straightening work on steering components is not permitted.
- ◆ Only use steering gear grease, Part No. AOF 063 000 04 to grease the rack.
- ◆ Hydraulic oil: Part No. G 002 000



1 - Tie rod ball joint

- ◆ Check dust caps are seated correctly and not damaged

Modification ⇒ [Page 40-23](#)

2 - Hex nut, 40 Nm

3 - Hose clip

- ◆ Tension with VAG 1275
- ◆ Always replace

4 - Boot

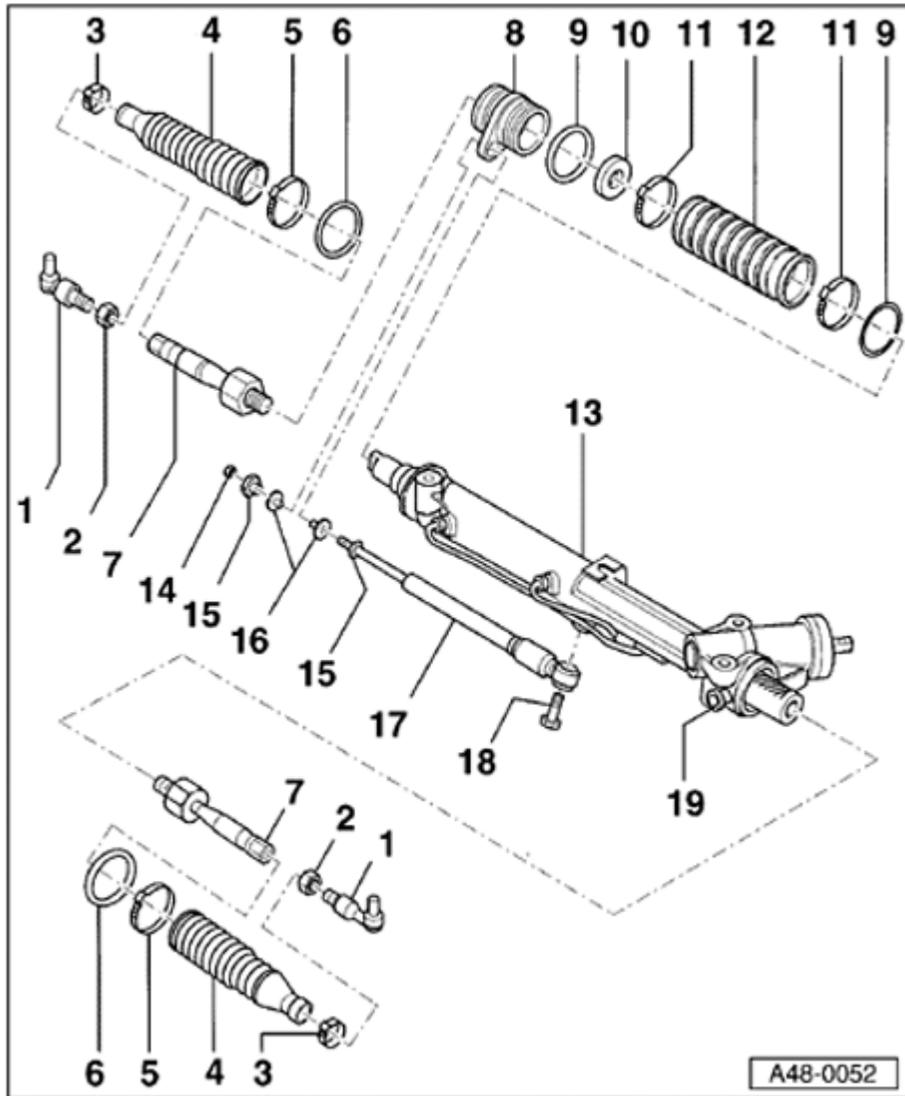
- ◆ Check for damage
- ◆ Can be replaced with steering gear installed
- ◆ Must not be twisted after adjusting track

5 - Hose clip

- ◆ Tension with VAG 1275
- ◆ Always replace

6 - O-ring

- ◆ Always replace



7 - Inner tie rod joint, 100 Nm

- ◆ Grease joint with steering gear grease A0F 063 000 04

8 - Steering damper bracket

9 - O-ring

- ◆ Always replace

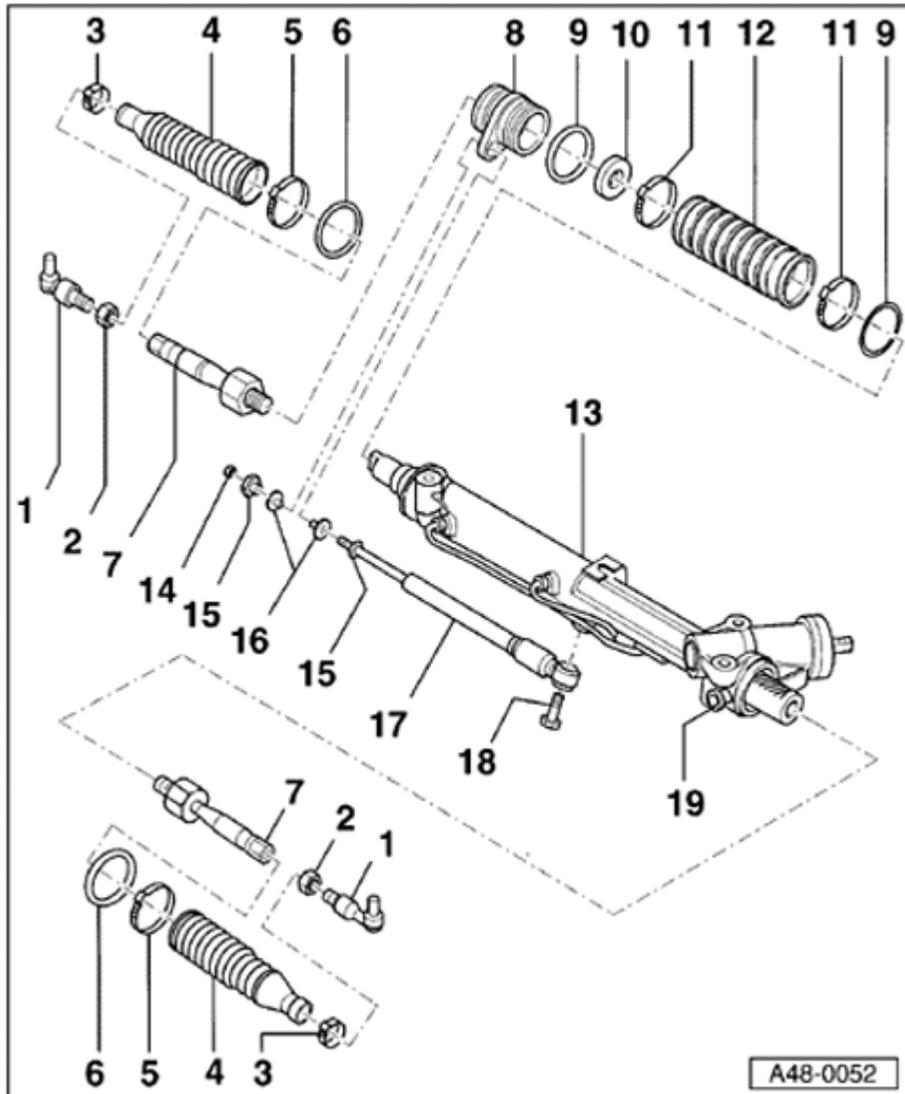
10 - Dished washer

11 - Hose clip

- ◆ Tension with VAG 1275
- ◆ Always replace

12 - Boot

- ◆ Check for damage
- ◆ Can be replaced with steering gear installed
- ◆ Must not be twisted after adjusting track



13 - Power steering gear

- ◆ Grease rack with steering gear grease A0F 063 000 04

The steering gear is supplied as a spare part complete with inner tie rod joint and boot

14 - Hex nut, 10 Nm

- ◆ To loosen and tighten counter hold on steering damper piston rod hex

15 - Bushing

16 - Rubber mounting

- ◆ Two part

17 - Steering damper

18 - Hex bolt, 38 Nm

19 - Socket head bolt, 18 Nm



Power steering oil level, checking

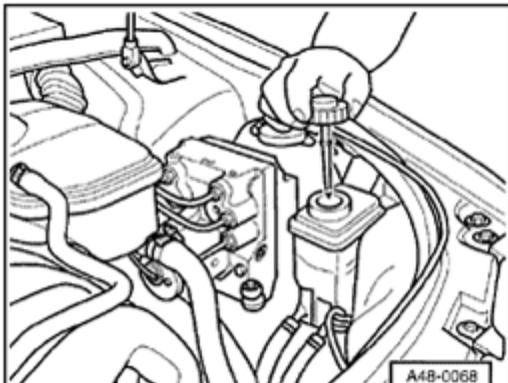
- Do not start engine but bring front wheels to straight-ahead position.

Oil in cold condition:

- Remove cap.
- Clean dipstick with a clean cloth.
- Screw cap on hand tight and unscrew again.

Note:

The cap must be fully screwed in order to obtain an accurate fluid level reading.



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- Check oil level: The oil level must be in area of MIN. marking (up to 2 mm above or below marking).

Oil at operating temperature (above approx. 50 ° C):

- Check oil level: The oil level must be between MIN. and MAX. marks.

**Notes:**

- ◆ *If the fluid level is above the area specified, the excess fluid must be extracted.*

- ◆ *If oil level is below afore mentioned area, then the hydraulic system must be checked for leaks. It is not sufficient to top-up with oil.*

⇒ *Fault finding, Steering gear; No. 10; Faults in power steering*



Steering system, bleeding

- Check hydraulic oil level and top-off if necessary.
- Raise vehicle until front wheels are free.
- Turn steering wheel from lock to lock 10 times, with engine switched off.
- Check hydraulic oil level and top-off if necessary.
- Lower vehicle.
- Start engine.
- Turn steering wheel from lock to lock 10 times.
- Check hydraulic oil level and top-off if necessary.

Any remaining air in steering system will dissipate when driving over the next 10 - 20 km.



Steering system checking for leaks

Note:

After completing repairs if hydraulic oil level is low the steering system must be checked for leaks.

- Start engine.
- Turn steering from lock to lock and hold briefly.

The maximum possible pressure is then produced.



In this position the following components must be checked for leaks:

- ◆ Pinion seal on steering gear valve housing.
- ◆ All line connections
- ◆ Rack seals

This check can only be carried out when the boot is pushed back.

- Open boot hose clip.
- Push boot back.

Steering gear must be replaced if oil is visible in steering gear housing and/or in the boot.

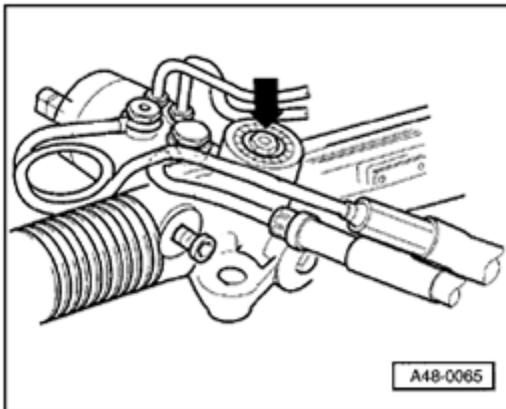


Power steering gear, adjusting

Note:

*Two mechanics are required when adjusting.
Adjust with engine switched off.*

- Raise vehicle on hoist.
- Wheels in straight-ahead position.



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- The second mechanic must carefully screw the adjustment screw (arrow) until the knocking noise can no longer be heard inside the vehicle.
- Carry out a road test.
- Make sure that when maneuvering or negotiating corners the steering self-centers without sticking, re-adjust if necessary.