III - Wheel bearing, servicing

Special tools and equipment

- VW 408A Press tool
- 40-105 Thrust plate
- 3252 Box wrench 46 mm AF
- 3253/1 Installation tool
- VW 401 Press plate
- 3423 Puller
Special tools and equipment

- VW 447i Thrust plate
- VW 412 Press tool
- VW 432 Press piece
- VW 442 Press piece
- VW 459/2 Installing and removing tool
- VW 407 Press tool
Note:
♦ If vehicle must be moved after removing axle shaft, install outer joint and tighten to 50 Nm (37 ft lb) to avoid damaging wheel bearing.
♦ Do not weld and/or straighten with load on suspension components.
♦ Always replace self-locking nuts.
♦ Always replace corroded nuts/bolts.

1 - Suspension strut
   ♦ Servicing ⇒ Page 40-43

2 - Self-locking nut
   ♦ 60 Nm (44 ft lb) and turn 90° further
   ♦ Never less than 90°
   ♦ Turning angle tolerance 90° to 120°
   ♦ Always replace
3 - Wheel bearing housing
   For vehicles:
   ◆ With gasoline engines up to and including 85 kW (115 Hp)
   ◆ With TDI engine

4 - Tie rod end

5 - Splash plate

6 - Bolt
   ◆ 10 Nm (89 in. lb)

7 - Wheel bearing
   ◆ Pressing out ⇒ Fig. ⇒ 4
   ◆ Pressing in ⇒ Fig. ⇒ 5
   ◆ Removing and installing when wheel bearing housing is installed ⇒ Page 40-36
   ◆ Always replace, (bearing is destroyed when pressed out)

8 - Circlip
   ◆ Ensure circlip is correctly seated
9 - Wheel hub with ABS speed sensor rotor
- Rotor is welded to wheel hub
- Check rotor lateral run-out;

⇒ Repair Manual, Brake System, Repair Group 45

- Removing and installing with wheel bearing housing installed ⇒ Page 40-36

10 - Guide pins
- 28 Nm (21 ft lb)

11 - Protective cap

12 - Brake caliper
- With 85 kW (115 Hp) gasoline engine
- With TDI engine
- Do not loosen brake hose when working on front suspension
- Suspend with wire or similar, do not allow to hang by hose
- Servicing

⇒ Repair Manual, Brake System, Repair Group 46
⇒ Repair Manual, Brake System, Repair Group 47
13 - Ventilated brake disc

14 - Wheel bolt
   ◆ 120 Nm (89 ft lb)

15 - Self-locking 12-point nut
   ◆ Tightening ⇒ Page 40-55
   ◆ Always replace

16 - Phillips screw
   ◆ 4 Nm (35 in. lb)

17 - Brake carrier

18 - Brake caliper
   For vehicles:
   ◆ With gasoline engines from 130 kW (175 Hp)
   ◆ Do not loosen brake hose when working on front suspension
   ◆ Hang up with wire or similar
   ◆ Servicing

⇒ Repair Manual, Brake System, Repair Group 46
⇒ Repair Manual, Brake System, Repair Group 47
19 - Self-locking combi bolt

- 125 Nm (92 ft lb)

- Clean under side of bolt head to ensure correct torque value
20 - Wheel bearing housing
   ♦ With gasoline engine 130 kW (175 Hp)

21 - Self-locking nut
   ♦ 45 Nm (33 ft lb)

22 - Ball joint
   ♦ Removing and installing ⇒ Page 40-10

23 - Self-locking nut
   ♦ 45 Nm (33 ft lb)

24 - Bolt
   ♦ Always replace

25 - Socket head bolt
   ♦ 10 Nm (89 in. lb)

26 - Speed sensor

27 - Axle shaft
   ♦ Pulling axle shaft from wheel hub and pressing in
   ⇒ Removing and installing axle shafts ⇒ Page 40-51
Fig. 1  Hub, pressing out of wheel bearing housing

Fig. 2  Hub, pulling bearing race out
Fig. 3  Circlip, removing

Fig. 4  Wheel bearing, pressing out of wheel bearing housing
Use lubrication pouch from repair kit.

- Install circlip.

**Fig. 5**  Wheel bearing, pressing into wheel bearing housing

- Lubricate wheel bearing housing with N 052 723 00 before bearing installation

**Fig. 6**  Hub, pressing into wheel bearing housing