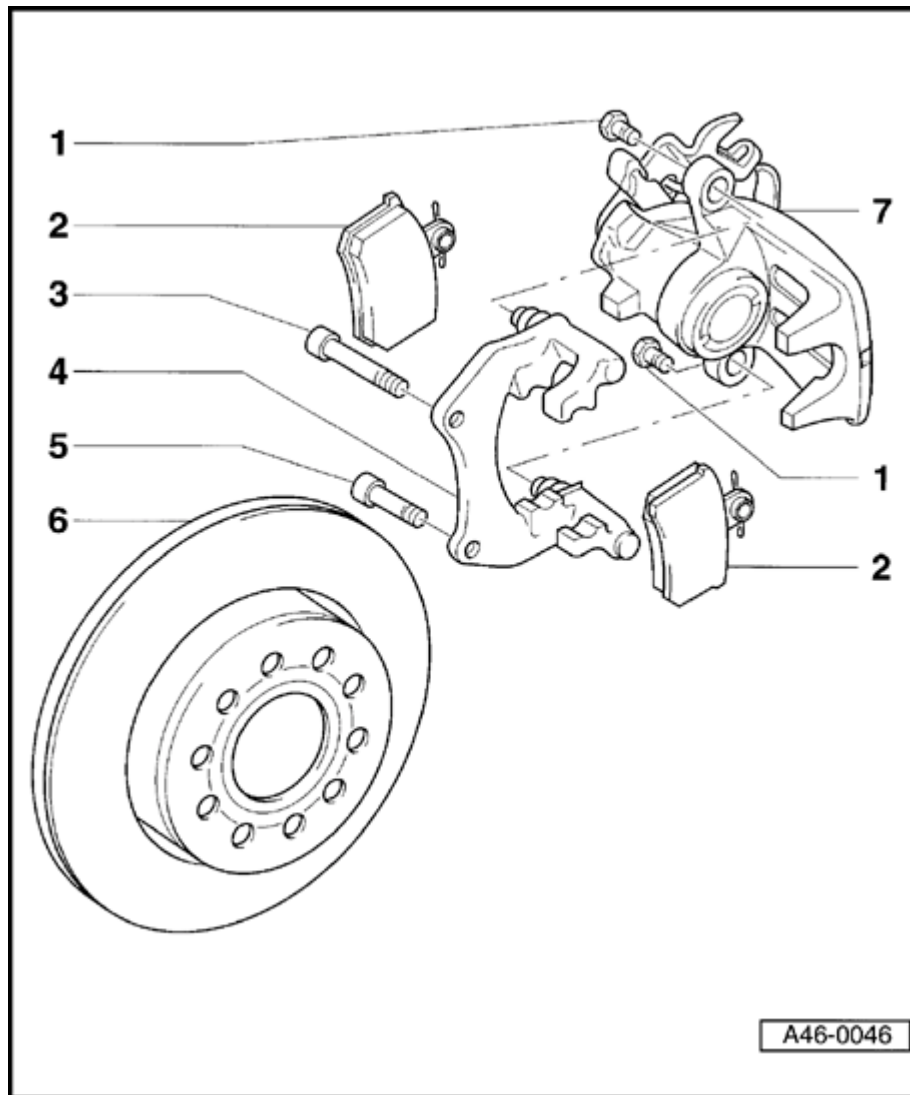


Rear brakes, servicing

Rear brakes with automatic parking brake adjusters

WARNING!

- ◆ *Do not re-use fasteners that are worn or deformed in normal use.*
- ◆ *Some fasteners are designed to be used only once, and are unreliable and may fail if used a second time. This includes, but is not limited to, nuts, bolts, washers, circlips and cotter pins. Always follow recommendations in this manual-replace these fasteners with new parts where indicated, and any other time it is deemed necessary by inspection.*
- ◆ *To siphon brake fluid, always use a bleeder bottle which is only used to siphon brake fluid.*
- ◆ *Brake fluid is poisonous and must NEVER be removed by siphoning with your mouth.*

**Note:**

- ◆ *Install only the complete repair kit.*
- ◆ *The brakes can be tested on a commercial brake dynamometer provided the speed of the two dynamometer drive rollers is not more than 5.5 km/h (3.3 mph).*

1 - Self-locking bolt

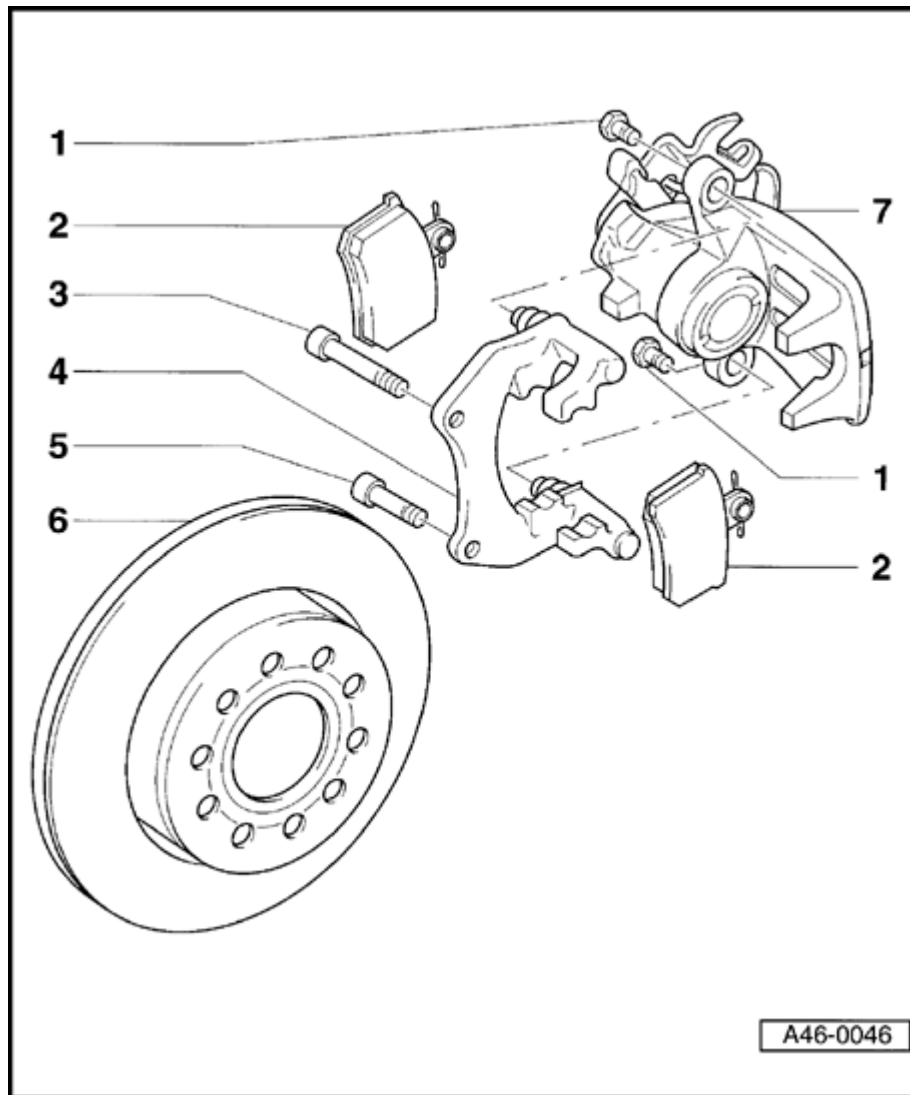
- ◆ Always replace
- ◆ 35 Nm (26 ft lb)
- ◆ Counter-hold guide pin when loosening and tightening

2 - Brake pads

- ◆ Always replace as a set on both wheels of an axle
- ◆ Removing and installing ⇒ [page 46-24](#)
- ◆ Brake pad thickness when new: 12 mm (0.47 in.)
- ◆ Brake pad wear limit (friction material): 2 mm (0.08 in.)
- ◆ Brake pad wear limit (including backing plate): 7 mm (0.28 in.)

3 - Ribbed bolt

- ◆ For vehicles with front wheel drive
- ◆ 95 Nm (70 ft lb)

**Note:**

Until changing over to ribbed bolts, the remaining socket-head bolts should be used. Tightening torque for the socket-head bolt is 60 Nm (44 ft lb).

3 - Socket-head bolt

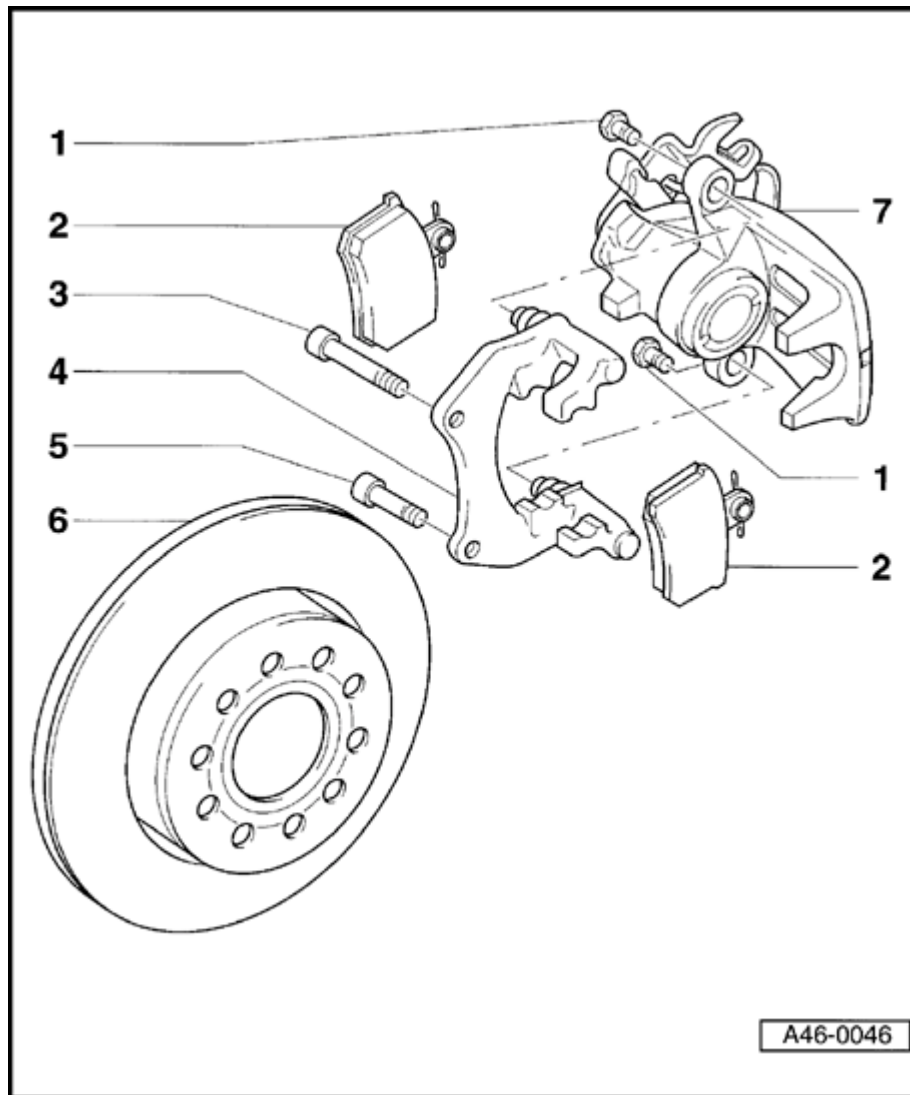
- ◆ For vehicles with all wheel drive
- ◆ 60 Nm (44 ft lb)

4 - Brake carrier with guide pins and protective caps

- ◆ Supplied as a pre-assembled replacement part with adequate amount of grease on guide pins
- ◆ If the caps or guide pins are damaged, install repair kit
- ◆ Use quantity of grease from repair kit for greasing guide pins

5 - Ribbed bolt

- ◆ For vehicles with front wheel drive
- ◆ 95 Nm (70 ft lb)

**Note:**

Until changing over to ribbed bolts, the remaining socket-head bolts should be used. Tightening torque for the socket-head bolt is 60 Nm (44 ft lb).

5 - Socket-head bolt

- ◆ For vehicles with all wheel drive
- ◆ 60 Nm (44 ft lb)

6 - Brake disc

- ◆ Always replace as a set on both wheels of an axle
- ◆ To remove, first unbolt brake caliper
- ◆ Resurface evenly on both sides starting from thickness when new
- ◆ Brake disc diameter: 245 mm (9.65 in.)
- ◆ Brake disc thickness: 10 mm (0.39 in.)
- ◆ Wear limit: 8 mm (0.31 in.)

7 - Brake caliper housing

- ◆ Do not disconnect brake hose when replacing brake pads
- ◆ Servicing caliper ⇒ [47-13](#)

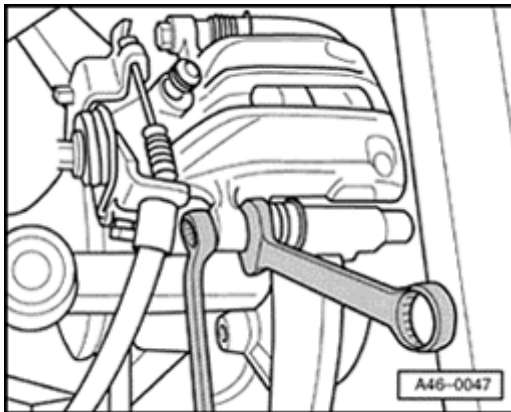
Rear brake pads, removing and installing

Removing

Note:

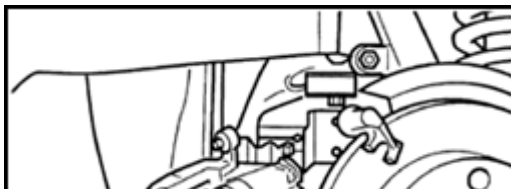
If brake pads are to be re-used, mark installed positions when removing. Re-install at the same point, otherwise the car may pull to one side!

- Raise vehicle.
- Remove wheels.



- A** - Unbolt brake caliper housing.
- Remove brake pads.

Installing



- A** - Screw piston in by turning threaded spindle of special tool 3272 to right.

Note:

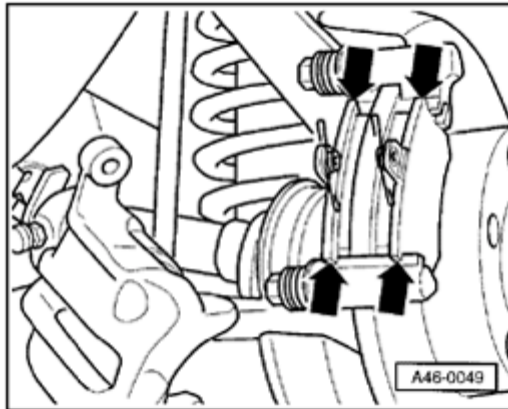
Insert special tool 3272 so that the collar is positioned ahead of the piston.

WARNING!

Brake fluid is poisonous and must NEVER be removed by siphoning with your mouth.

CAUTION!

- ◆ **Extract part of the brake fluid from the brake fluid reservoir before pushing back the pistons.**
- ◆ **If this is not done, particularly if the brake fluid has been topped up in the meantime, brake fluid may flow out and cause damage. Use the bleeder bottle or a plastic bottle, which is used only for brake fluid, for extracting the fluid.**



A

- Install brake pads in brake carrier (arrows).

CAUTION!

The repair kit contains four self-locking hex bolts which must always be installed.

- Bolt on brake caliper housing.
Tightening torque: 35 Nm (26 ft lb)

Note:

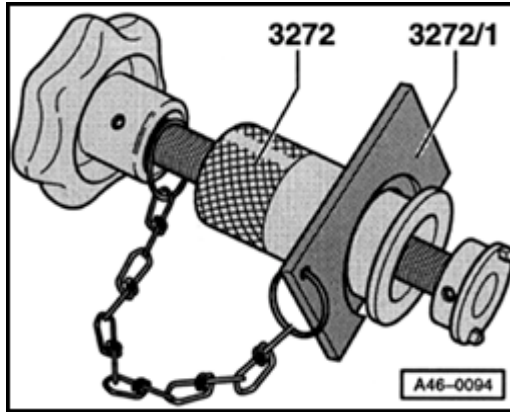
Depress the brake pedal firmly several times while the car is stationary so that the brake pads adjust to their normal operating positions.

- Install wheels and tighten wheel bolts.

Tightening torque: 120 Nm (89 ft lb)

- Check brake fluid level and top up if necessary.

Rear brake pads on front-wheel-drive vehicles with aluminum rear brake calipers, removing and installing



Special tools and equipment

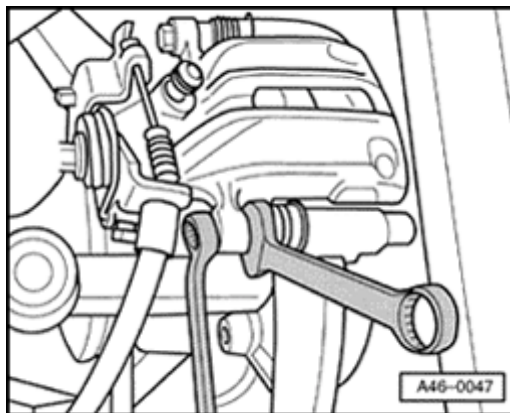
- 3272 reset and screwout tool
- 3272/1 support plate

Removing

Note:

If brake pads are to be re-used, mark installed positions when removing. Re-install at the same point, otherwise the car may pull to one side!

- Remove wheels.
- Counter-hold guide pins and remove self locking bolts from brake caliper housing.
- Remove brake pads.



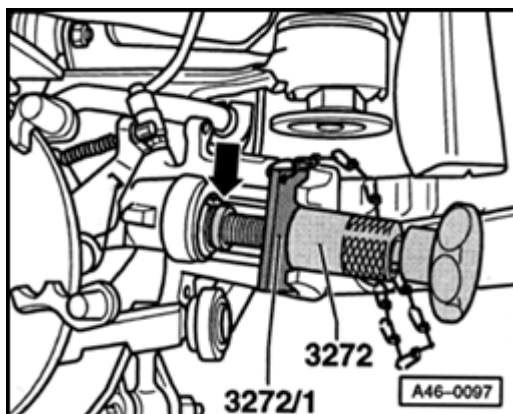
Installing

WARNING!

Brake fluid is poisonous and must NEVER be removed by siphoning with your mouth.

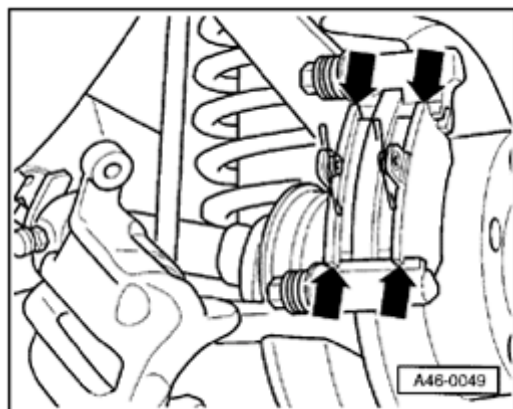
CAUTION!

- ◆ **Before pushing back the piston, siphon some of the brake fluid out of the brake fluid reservoir. Otherwise, particularly if reservoir has been topped off, fluid will overflow and cause damage.**
- ◆ **To siphon brake fluid, always use a bleeder bottle which is only used to siphon brake fluid.**



A

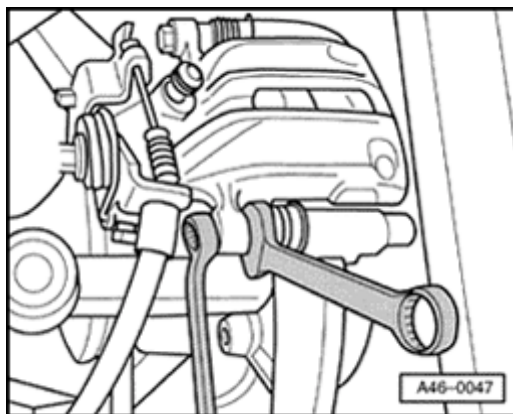
- Screw piston inward as far as it will go by turning threaded spindle (arrow) clockwise and knurled section counterclockwise.



- Remove protective foil from brake pad backing plate.
- A**
- Install brake pads in brake carrier (arrows).

CAUTION!

The repair kit contains four self-locking hex bolts which must always be installed.



- A**
- Install brake caliper housing with new self-locking bolts and tighten.
Tightening torque: 35 Nm (26 ft lb)

Note:

After installing the brake pads, depress the brake pedal firmly several times before moving the vehicle to properly seat the brake pads in their normal operating position.

- Install wheels and tighten wheel bolts.
Tightening torque: 120 Nm (89 ft lb)
- Check brake fluid level and top up if necessary.