

## Double piston front brake calipers, servicing

### Note:

- ◆ Install only the complete repair kit when performing servicing work.
- ◆ New brake calipers are filled with brake fluid and pre-bled.
- ◆ Apply a thin coating of assembly paste to brake cylinders, pistons and seals.

### 1 - Dust cap

- ◆ Install on bleeder valve

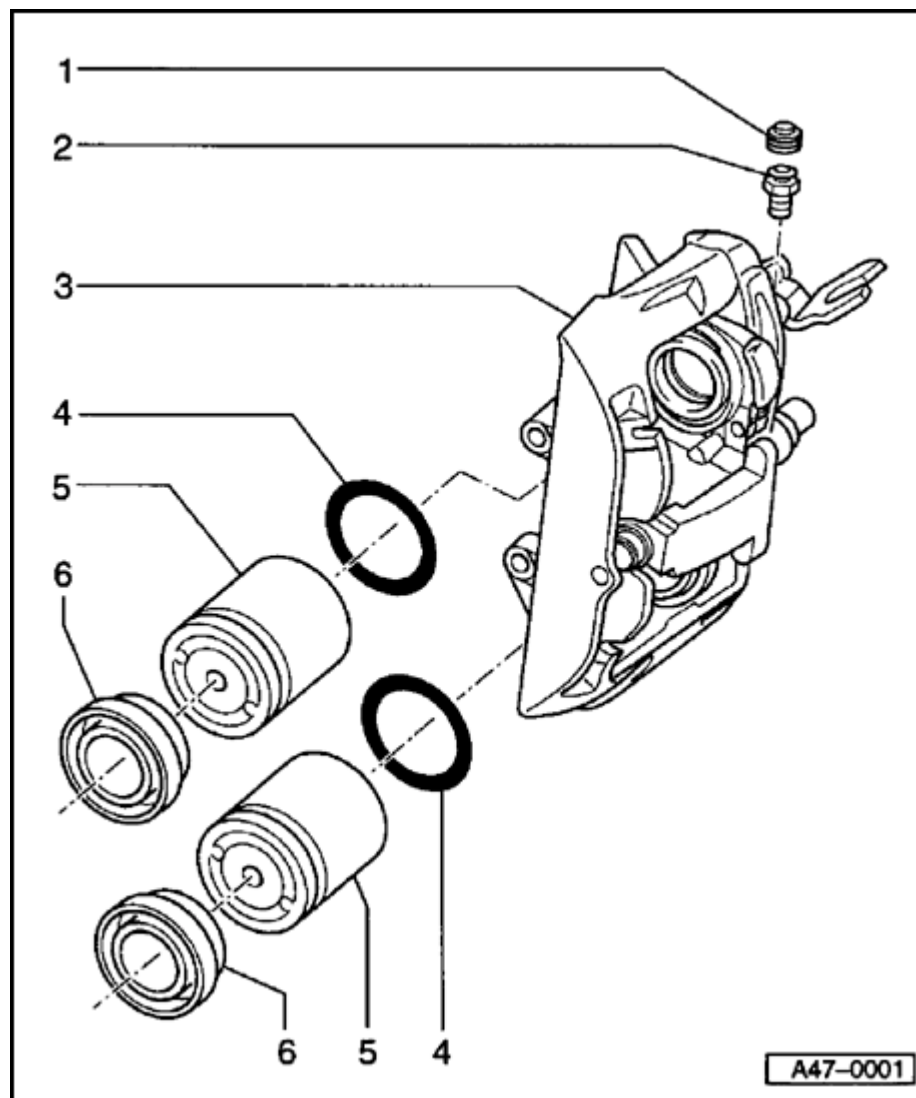
### 2 - Bleeder valve

- ◆ Apply a thin coating of assembly paste to threads before installing

### 3 - Brake caliper housing

### CAUTION!

- ◆ Do not separate caliper housing halves (internally serrated bolts).
- ◆ If the protective boot for the guide pins is damaged, replace brake caliper.



#### 4 - Seals

- ◆ Use 3409 wedge to remove ⇒ [Fig. 2](#)
- ◆ Install carefully by hand

#### 5 - Piston

- ◆ Piston diameter: 42.8 mm (1.69 in.)
- ◆ Use compressed air to remove from caliper housing ⇒ [Fig. 1](#)
- ◆ Apply a thin coating of assembly paste before installing
- ◆ Installing ⇒ [Fig. 3](#) , ⇒ [4](#) and ⇒ [5](#)

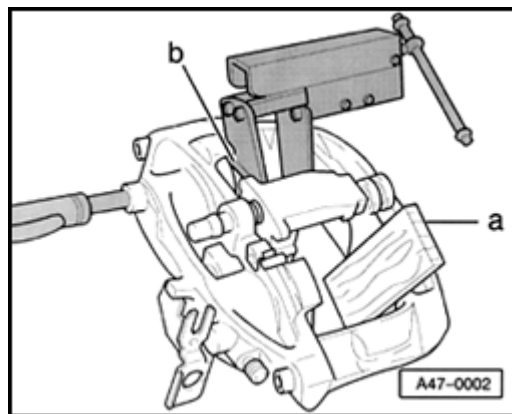
#### 6 - Protective seal

- ◆ Do not damage when installing piston
- ◆ Install outer sealing lip onto piston ⇒ [Fig. 3](#)
- ◆ Install inner sealing lip into groove on brake caliper housing ⇒ [Fig. 4](#)

## Double piston brake caliper pistons, removing and installing

### Special tools and equipment

- ◆ 3409 wedge
- ◆ Piston resetting tool

**A**

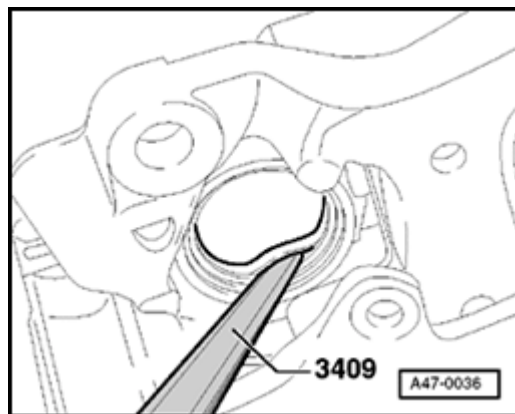
**Fig. 1 Pressing pistons individually out of brake caliper housing using compressed air**

### **WARNING!**

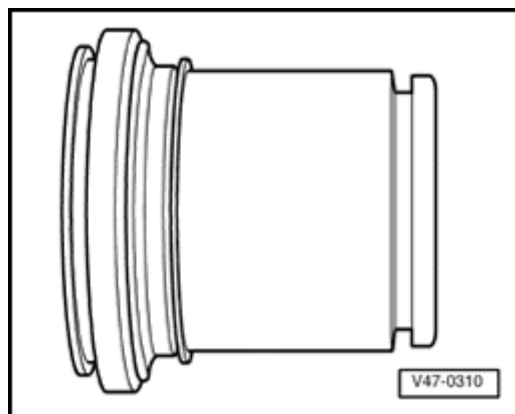
- ◆ **Risk of accident! Apply pressure gradually. Guard against the sudden release of the piston.**
- ◆ **Always wear safety glasses when carrying out this step.**

### **Note:**

- ◆ *Insert brake pad -b- into piston. Place wooden block -a- into the space so the pistons are not damaged.*
- ◆ *Only one piston can be pressed out at a time: hold the other piston tight using the piston resetting tool in the brake caliper housing during this step.*

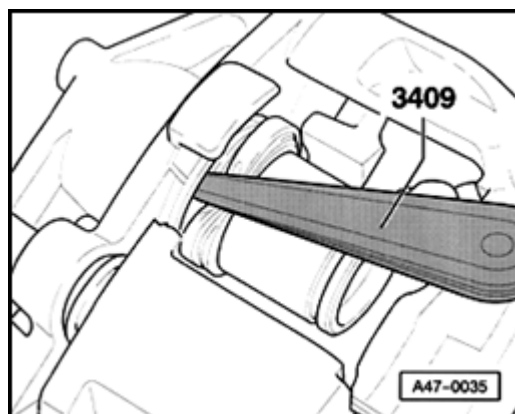


**A** Fig. 2 Removing seals using 3409 wedge



**A** Fig. 3 Installing the outer sealing lip of the protective seal onto the piston

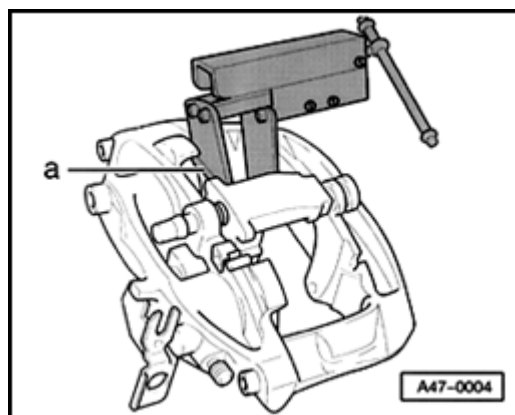
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**A** Fig. 4 Installing inner sealing lip of protective seal using 3409 wedge

**Note:**

*Hold the piston in front of the caliper housing for this procedure.*



**A** Fig. 5 Pressing piston into brake caliper housing using piston resetting tool

**Note:**

- ◆ *Install piston into the bore by hand and then install the brake pad -a- on the piston before pressing piston into the brake caliper housing.*
- ◆ *The outer sealing lip of the protective seal will then locate in the piston groove during this step.*