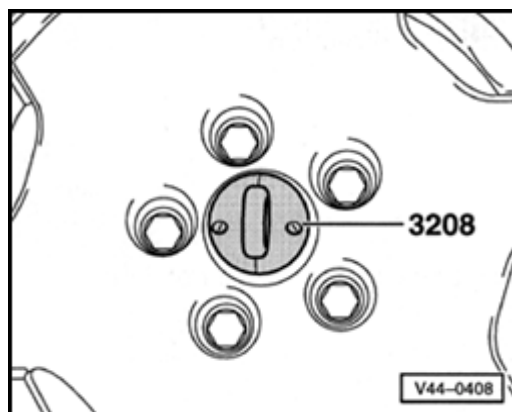


42-84

## Lower control arm, removing and installing

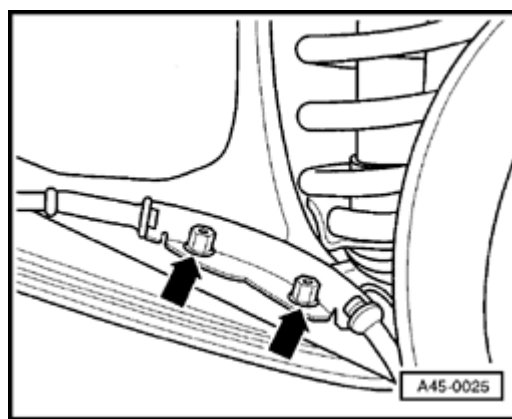
### Removing

- Vehicle must be standing on its wheels above vehicle lift



A

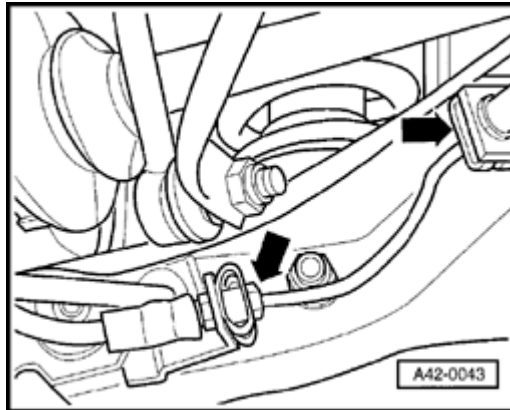
- Remove wheel trim.  
On light alloy wheels use puller in vehicle tool kit to remove trim cap
- Loosen wheel bolts.
- Raise vehicle on lift.
- Remove wheel.



A

- Remove bracket for ABS wheel speed sensor cable.
- Extract brake fluid from reservoir:

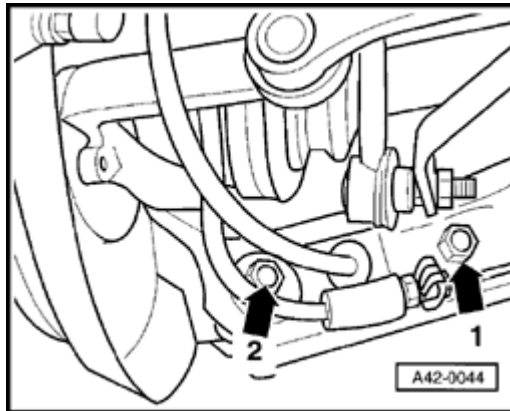
⇒ [Repair Manual, Brake System, Repair Group 47](#)



- A** - Disconnect brake line at points indicated.

**Note:**

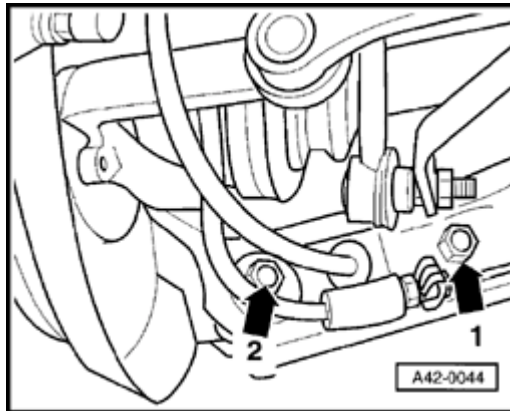
*On vehicles with headlight range control, the linkage for the headlight range control must be disconnected to remove the rear axle or lower control arm ⇒ [page 42-48](#) .*



- A** - Remove self-locking nut and bolt mounting lower control arm to suspension strut (arrow -1-) ⇒ [page 42-40](#) .

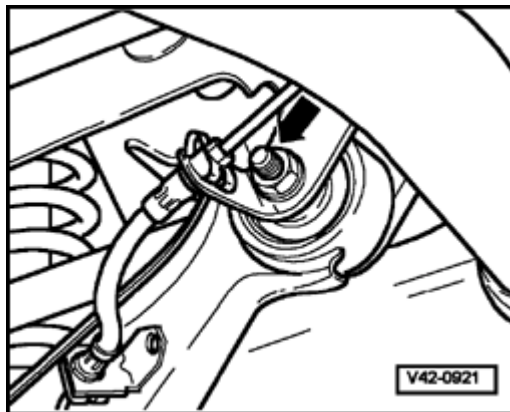
- Remove parking brake cable:

⇒ [Repair Manual, Brake System, Repair Group 46](#)



A

- Remove eccentric bolt for wheel bearing housing to lower control arm (arrow -2-) ⇒ [page 42-41](#) .



A

- Remove both mounting bolts for subframe to lower control arm (arrow) ⇒ [page 42-40](#) .

**Note:**

*Only one bolt is shown to simplify the illustration.*

- Remove control arm.

## Installing

### **WARNING!**

- ◆ *Do not re-use any 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 the recommendations in this manual—replace these fasteners with new parts where indicated, and any other time it is deemed necessary by inspection.*

### **CAUTION!**

*Bonded rubber bushings can only be turned to a limited extent. The bolted connection between the wheel bearing housing to lower control arm and the connection between the shock absorber to lower control arm must only be tightened when the vehicle is standing on the ground. Otherwise the bonded rubber bushings will be subjected to a torsional stress resulting in shortened service life*

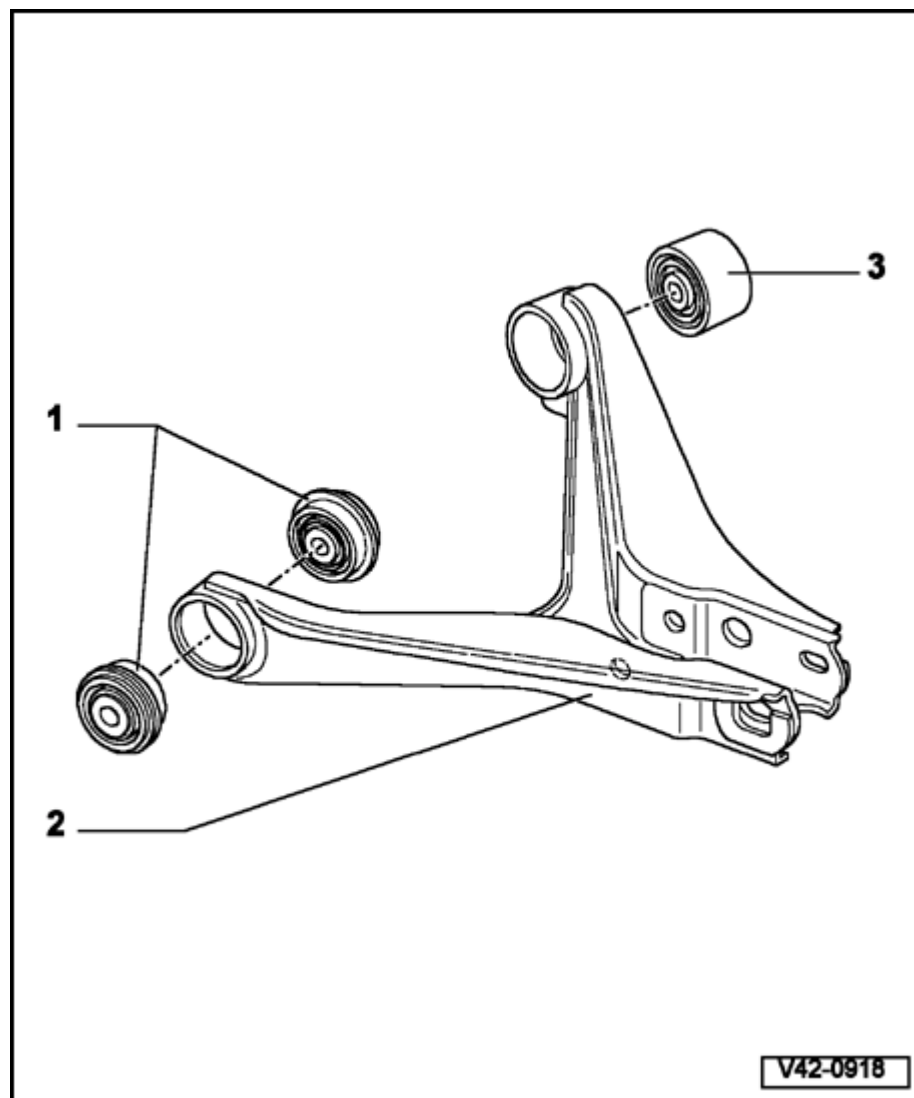
- Install in reverse order of removal.

- Always replace bolts and nuts.

- Bleed brake system:

⇒ [Repair Manual, Brake System, Repair Group 47](#)

- Check wheel alignment and adjust if necessary  
⇒ [page 44-6](#) .



## Lower control arm, servicing

### 1 - Rear bonded rubber bushing

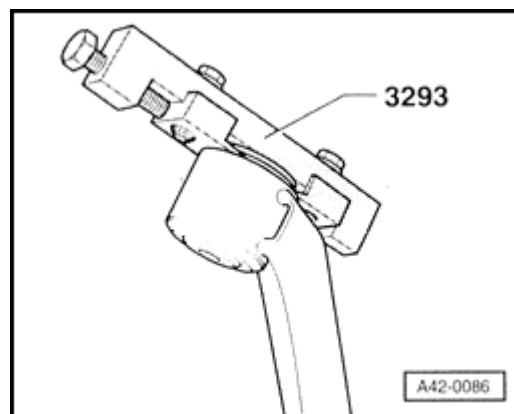
- ◆ Replacing ⇒ [Figs. 1](#) and ⇒ [4](#)
- ◆ Always replace both halves

### 2 - Lower control arm

- ◆ Replacement part supplied with bonded rubber bushings installed

### 3 - Front bonded rubber bushing

- ◆ Replacing ⇒ [Fig. 5](#)

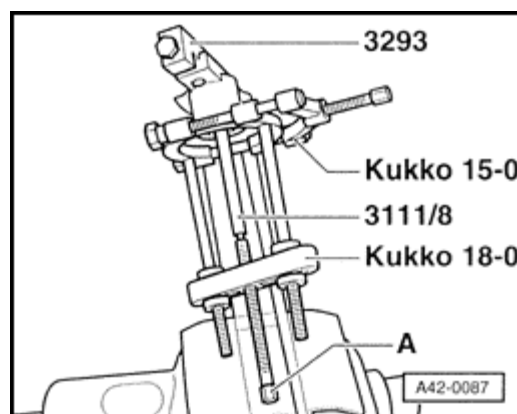


A

**Fig. 1 Attaching 3293 lower control arm assembly device to lower control arm**

**Notes:**

- ◆ *The two collars of the bonded rubber bushings must be flanged slightly before installing into lower control arm assembly device.*
- ◆ *Be careful when attaching lower control arm assembly device.*
- Attach 3293 lower control arm assembly device to bushing with jaws of tool positioned between lip of bushing and lower control arm.
- Screw in threaded stem to force bushing slightly from lower control arm.

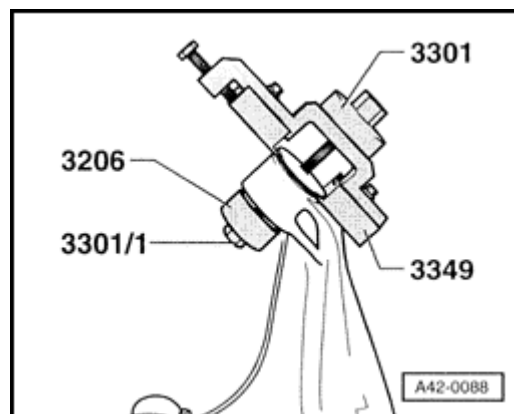


A

**Fig. 2 Attaching puller into lower control arm**

- Attach commercially available puller (e.g. Kukko 15-0) to lower control arm.
- Insert 3111/8 adapter into hole in bonded rubber bushing.
- Screw Kukko 18-0 into Kukko 15-0 and centrally align.
- Screw in threaded stem -A- until bonded rubber bushing is pulled out.

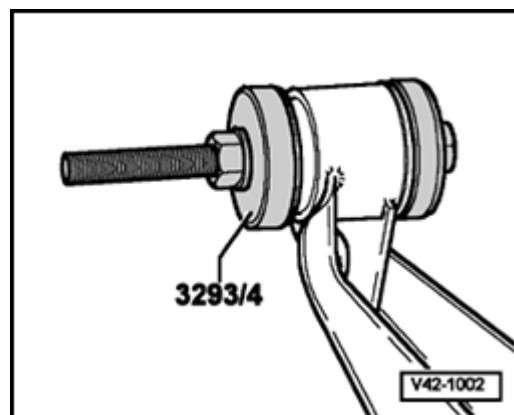
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A

**Fig. 3 Pulling second half of bonded rubber bushing into lower control arm**

- Attach 3349 puller to lower control arm.
- Screw in threaded stem of 3301/1 until second half of bushing is fully removed.

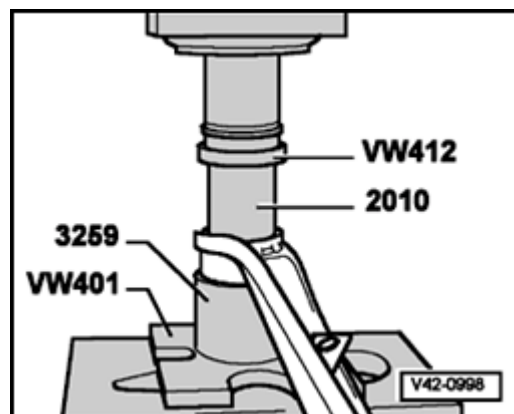


A

**Fig. 4 Installing bonded rubber bushing into lower control arm**

- Insert two halves of bonded rubber bushing together with 3293/4 thrust pieces and threaded stem into lower control arm at right angles.
- Turn threaded stem until bonded rubber bushing is pulled fully in up to stop.





A

**Fig. 5 Pressing bonded rubber bushing in and out of lower control arm**

- Press bushing in until flush.

**Note:**

*When pressing out, make sure that the bonded rubber bushing does not rest on the end face of 3259 tube.*

- Collar of 3259 tube faces VW401 thrust plate