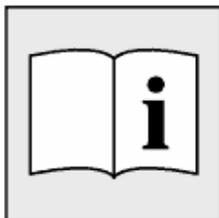
**Special tools required:**

- 31 2 230
- 31 5 220

**Important!**

If the centering pin is missing, the position of the studs to the wheel arch must be marked so that the original camber is approximately maintained.

Only one nut may ever be released for marking.

*Necessary preliminary tasks:*

- Remove front wheel
- Remove stabilizer link from spring strut
- Remove tie rod end from steering knuckle



Centering pin missing: Make position of studs in relation to wheel arch.

Release nuts (1) by two turns.

*Note:*

To make it easier to lower the steering knuckle (to reduce distortion between spring strut and spring strut dome), it is necessary to slacken the support bearing screw connection.



## Warning!

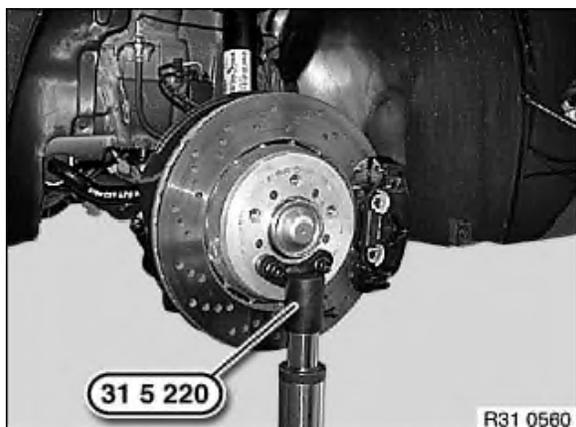
### Danger of injury!

Failure to comply with the following instructions may result in the vehicle slipping off the lifting platform and critically injuring other persons.

When supporting components, make sure that

- the vehicle can no longer be raised or lowered
- the vehicle does not lift off the locating plates on the lifting platform

Secure special tool 31 5 220 with wheel bolts to drive flange and support steering knuckle with workshop jack.



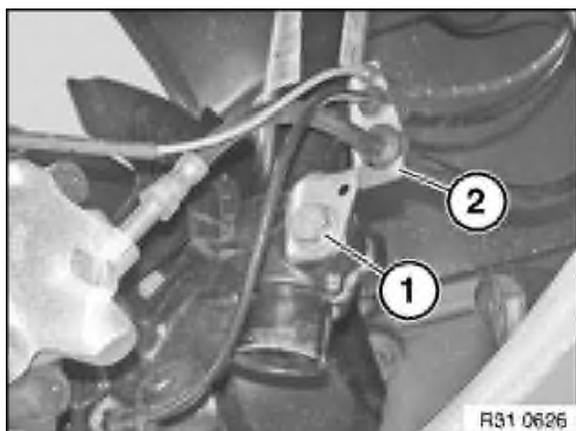
Release screw (1) and remove bracket (2).

### Installation:

Recondition thread.

Replace microencapsulated screw.

Tightening torque 31 21 4AZ .



Spread swivel bearing with special tool 31 2 230 .

### Important!

Failure to comply will result in damage to the supporting or ball joint of the control arm.

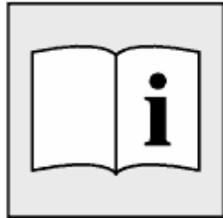
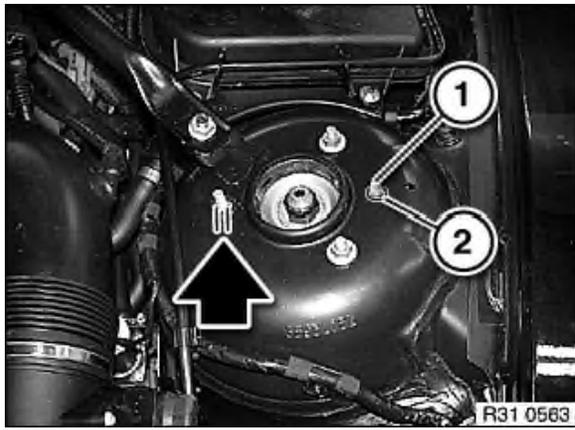
Lower steering knuckle until spring strut can be removed.

### Installation:

Keep press fit of steering knuckle and spring strut in lower area clean and free from oil and grease.

Spread steering knuckle with special tool 31 2 230 , align by means of gap to positioning pins on back of spring strut and raise as far as it will go.





Secure spring strut against falling out.

Unscrew nuts.

Remove spring strut downwards out of wheel arch.

*Installation:*

Replace self-locking nuts

Align spring strut using centering pin (1) to bore (2) in wheel arch or studs to markings on wheel arch.

Tightening torque 31 31 1AZ .

**After installation:**

- Carry out wheel alignment check if a spring strut with support bearing was or has been installed without centering pin.