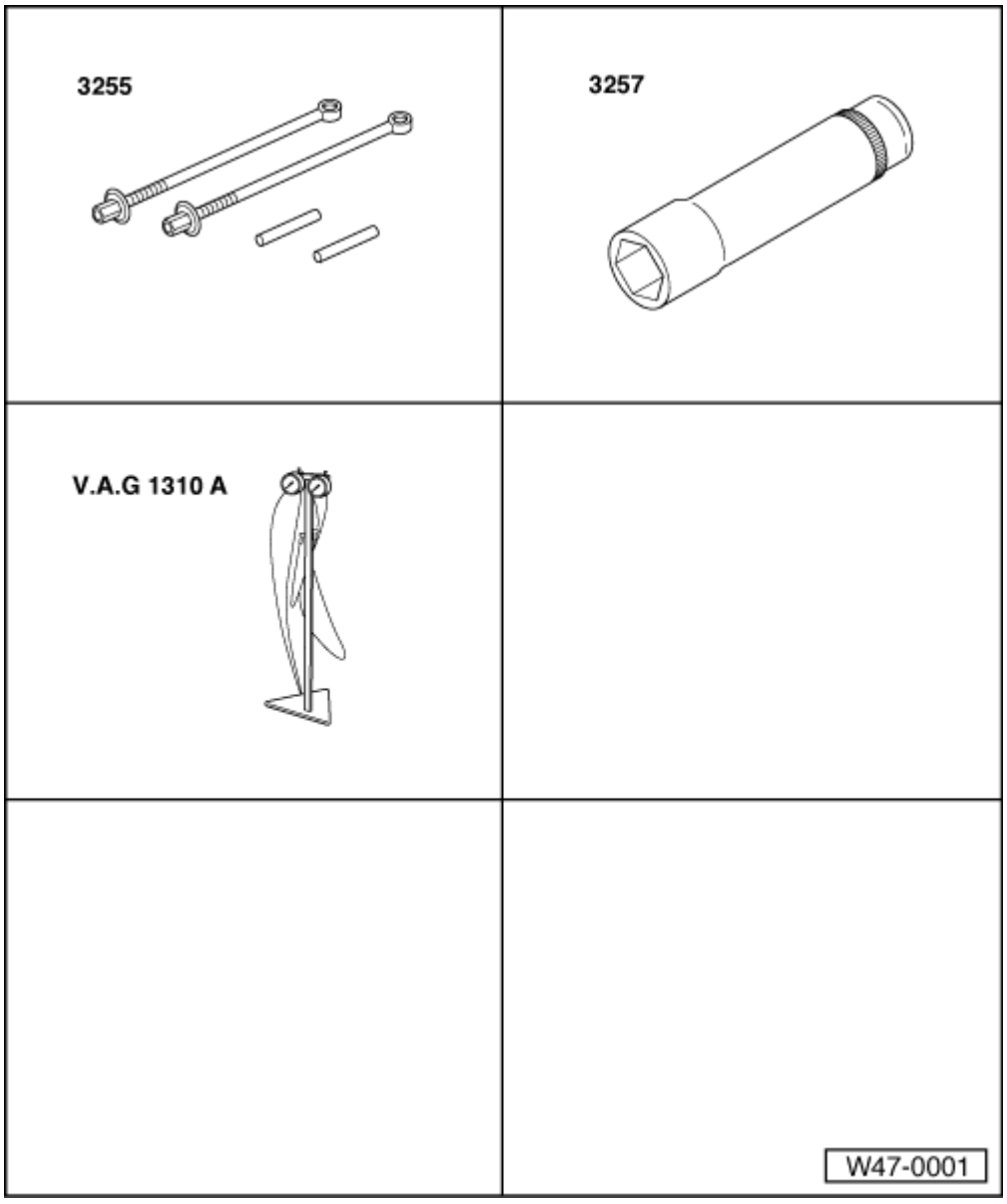
Removing and installing brake pressure regulator
Adjusting brake pressure regulator

Special tools and workshop equipment required

- 3255 Adjusters
- 3257 Socket, 27 mm AF
- V.A.G 1310 A Brake system tester



Brake pressure regulator basic setting

- If, for example, one or both wishbones are replaced and no markings are given for the installation position of the spring mounting -2- on the wishbone, it is recommended that the basic setting is carried out, as described below.
- If basic setting is not necessary => Page 47-35 fine adjustment of brake pressure regulator.

– Remove both shock absorbers.

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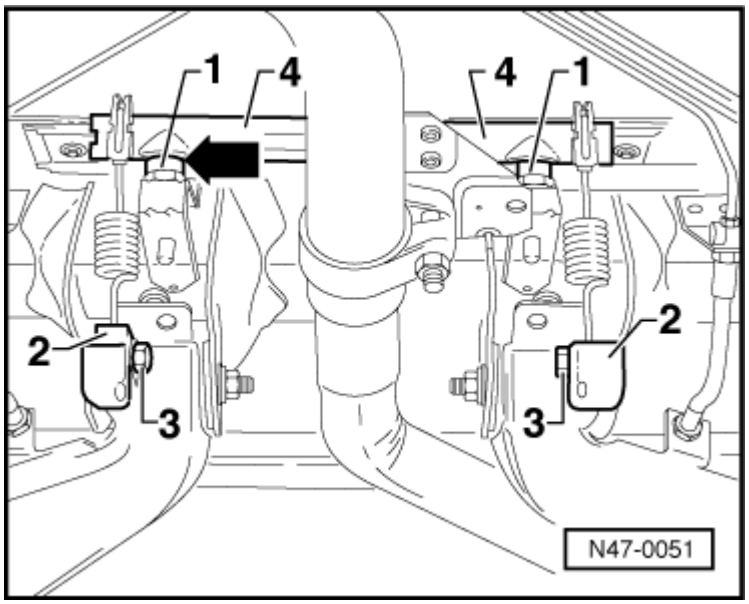
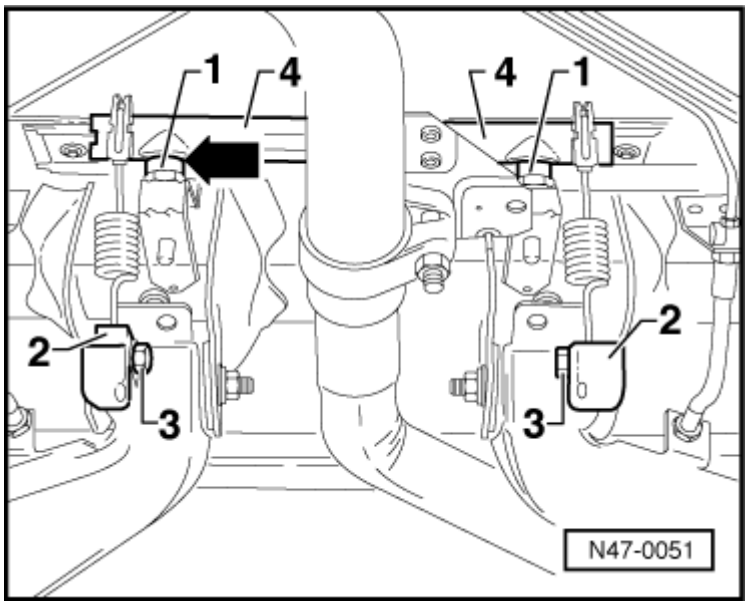
– Insert special tool 3255 and pretension wishbone => Page 47-36.

- → Align beam -4- horizontally by eye, to do this turn both buffer stops -1- onto stop on horizontal beam -4- (no preload at buffer stop -1-).



- → Move a spring mounting -2- down until a gap (arrow) of approx. 2 mm exists on the opposite side between buffer stop -1- and horizontal beam -4-.
- Move second spring mounting -2- down until the beam -4- is again horizontal.
- Turn both buffer stops -1- fully back, so that the largest possible gap exists between horizontal beam -4- and buffer stop.
- Continue with fine adjustment of brake pressure regulator => Page 47-35.



Brake pressure regulator fine adjustment

- Remove both shock absorbers.

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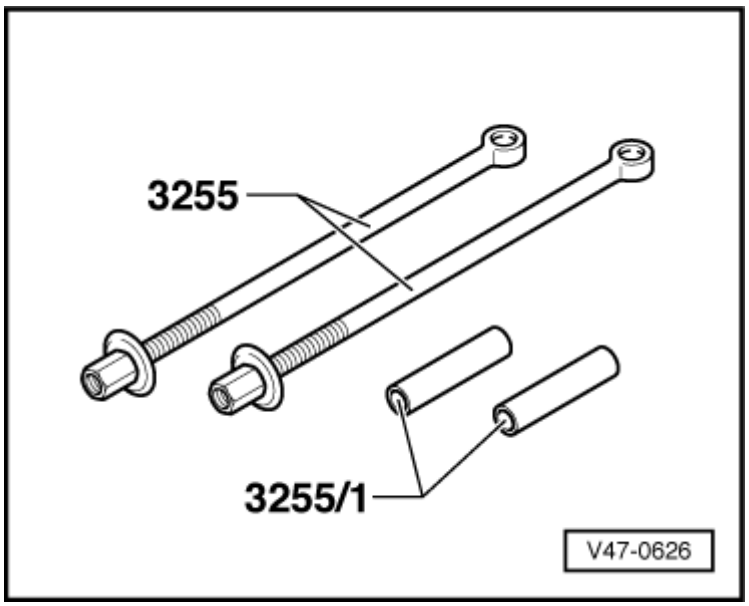
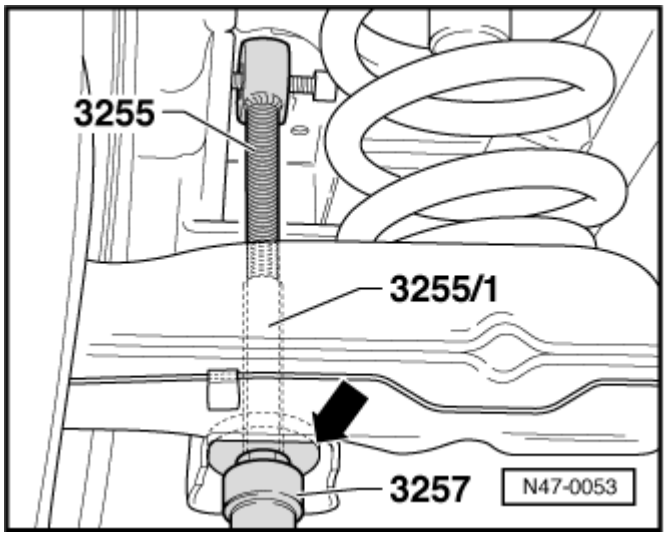
- → Slide tubes 3255/1 onto adjusting device.



- → Insert adjusting device 3255 with

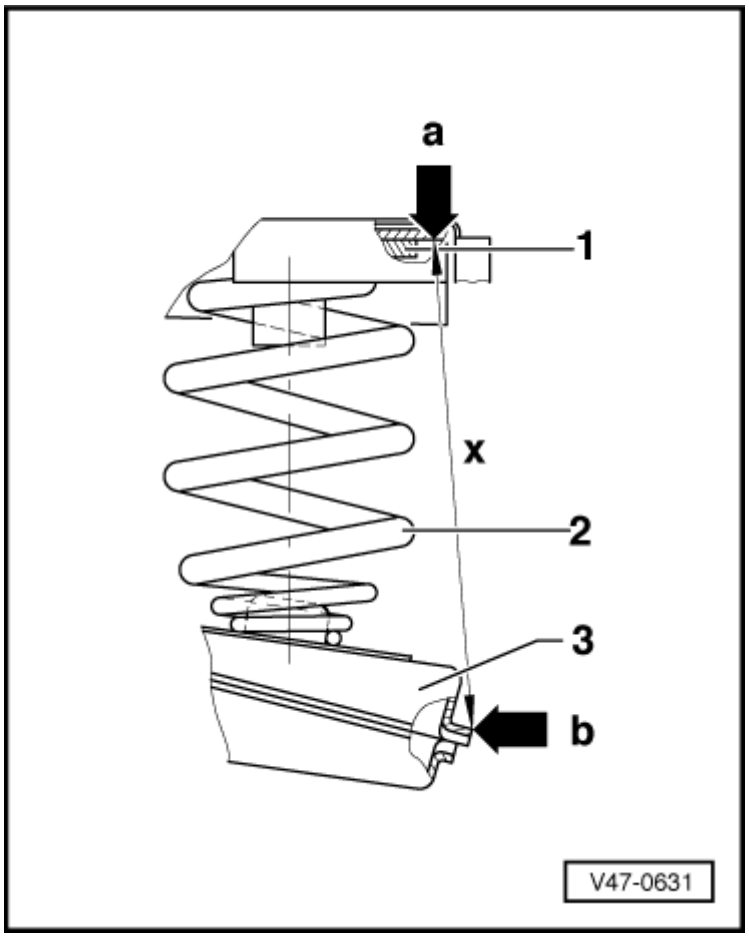
tubes 3255/1 as illustrated.

- Grease spindle thread, face of nut and washer surface with MoS2 grease.
- Insert a shock absorber rubber bush between the washer (arrow) and the wishbone in order to tension the wishbone.
- It is not permitted to use an impact screwdriver.
- First check buffer stop settings => Page 47-40.If complaints of poor braking or over braking on the rear axle are received.



- → Pretensioning wishbone to dimension -x- with special tool 3255.

1 - Washer
2 - Spring
3 - Wishbone



- The measurement is taken from the spring mounting steel plate edge (arrow a) to the top edge of the assembly hole in the wishbone (arrow b).
- Set dimension -x- according to table on Page 47-41.
- The coil spring can be removed to adjust the wishbone to dimension -x- .

- Continue with brake pressure check => Page 47-38.

Checking brake pressure

- Connect the pressure gauge V.A.G 1310 to front left brake caliper and to rear left brake caliper.
- Bleed both gauges (bleeding brake system => Page 47-27.)
- Depress brake pedal and check pressures.

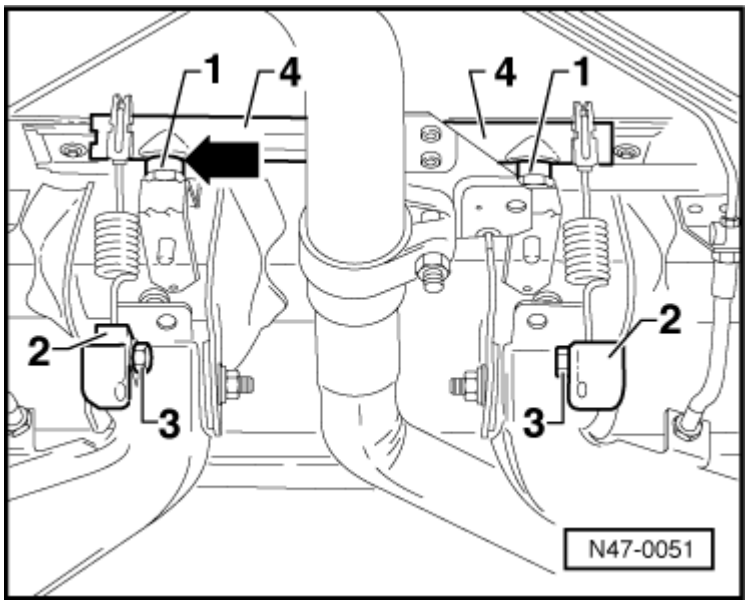
Front axle 50 bar
Rear axle 20 ± 2 bar

- Adjust if necessary => Page 47-39.
- Continue with adjusting buffer stops => Page 47-40.

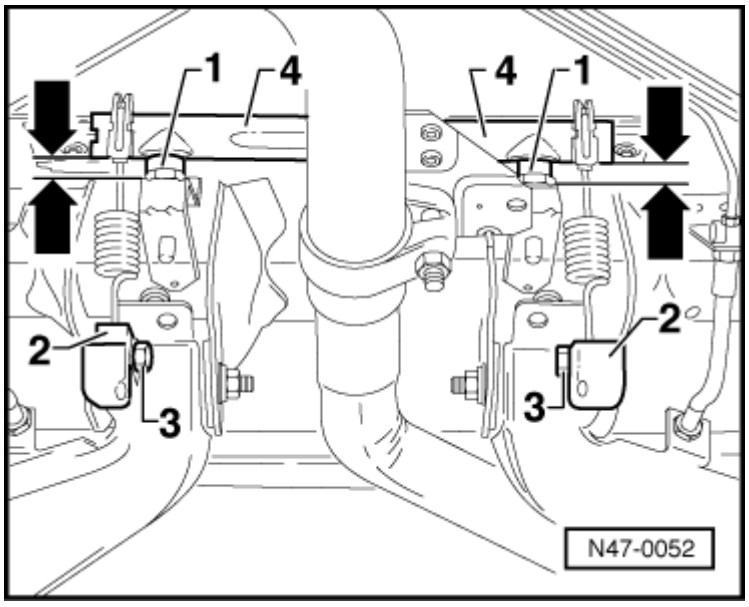
Adjusting brake pressure

- → Turn both buffer stops -1- back onto stop (downward).
- Mark spring mounting -2- position with a felt tip pen or adhesive tape on the wishbone.
- Loosen bolt -3- and move mounting -2-.

Moving spring mounting -2- downwards - Increases pressure.
Moving spring mounting -2- upwards - Decreases pressure.



- → It is only necessary to adjust the position of the second spring mounting -2- if the horizontal beam -4- is excessively inclined (more than 4 mm => arrows).
- Moving the spring mounting -2- 1 mm equates to a pressure change of approx. 4 bar at the rear axle.



- Slight inclination of the horizontal beam -4- is permissible (max. 4 mm between left and right => arrows).
- Tighten bolt -3-, counter-hold when tightening.
- Correct brake pressure regulator setting at second spring mounting -2- if necessary.

- Continue with adjusting buffer stops => Page 47-40.

Adjusting buffer stops

Check whether the securing clip, item 47-31 is securely seated.

- Check brake pressure (if not already checked)=> Page 47-38.
- If the setting is in order, insert pedal depressor.
- Hold front axle brake pressure to at least 50 bar.

- → Turn both buffer stops -1- up using 6 mm AF hexagon key (illustration shows only one buffer stop) until a gap of 0.5 mm can be measured using a feeler gauge -5- between both buffer stops -1- and

horizontal beam -4-.

- Remove V.A.G 1310 and bleed brake system
  => Page 47-27.
- Remove special tool 3255.
- Install shock absorber.

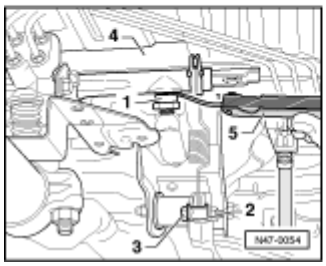


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Table of brake pressure regulator settings

Rear axle spring	Colour coding	Dimension x ± 1 mm
701 511 105 L	grey	238 mm
701 511 105 A/C	white	258 mm
701 511 105 M	pink	268 mm
701 511 105 H/J	orange	270 mm
701 511 105 P	light blue	270 mm
701 511 105	violet	280 mm
701 511 105 F	opal green	281 mm
701 511 105 K	yellow	284 mm
701 511 105 B	red-brown	292 mm