



WARNING

Any defects found must be rectified (repair measure).

5.3 Change brake fluid

Special tools and workshop equipment required

- ◆ Brake filling and bleeding device, e.g. -VAS 5234- or -VAS 6860-
- ◆ Tool set for brake bleeding -VAS 6564- and -VAS 6564/9-

Only use new original brake fluid N.052.766.Z0 as per US standard FMVSS 571.116, DOT 4 and VW standard 501 14.



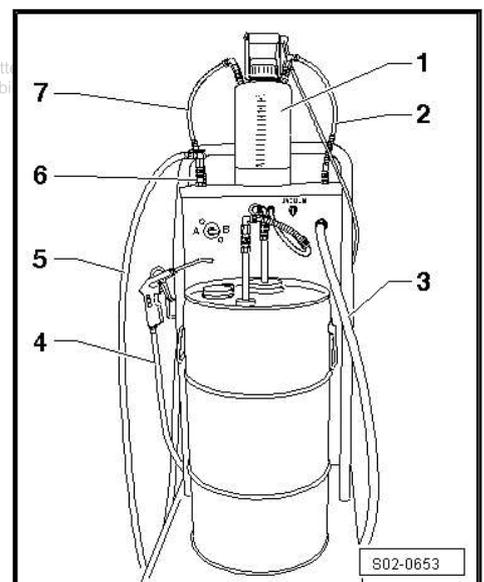
WARNING

- ◆ *Brake fluid must never come into contact with fluids containing mineral oils (oil, petrol, cleaning agent). Mineral oils damage the gaskets and boots of the brake system.*
- ◆ *Brake fluid is poisonous. Also due to its corrosive effect brake fluid must not come into contact with paintwork.*
- ◆ *Brake fluid is hygroscopic, i.e. it absorbs moisture from the surrounding air. Therefore it should always be stored in airtight containers.*
- ◆ *Wash any parts stained with brake fluid with large volumes of water.*
- ◆ *Observe the disposal instructions!*
- ◆ *Drained (used) brake fluid must never be used again.*

Extract brake fluid from the brake fluid reservoir.

- Switch on the extraction function of the brake filling and bleeding device, e.g. -VAS 5234- or -VAS 6860-.

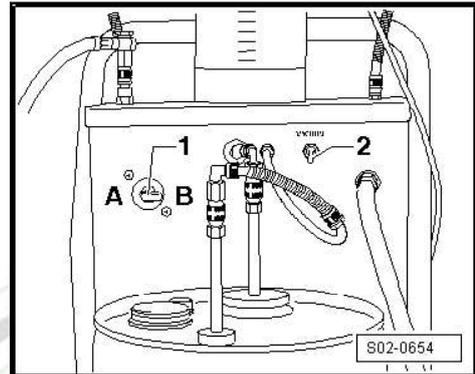
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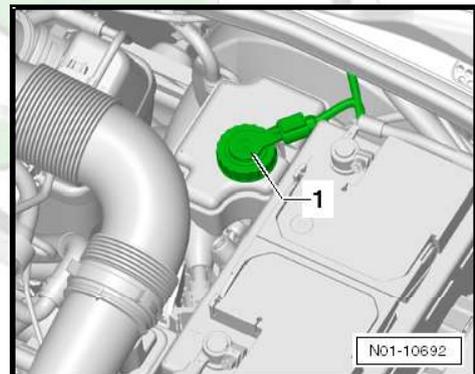
- 1 - Catch pan
- 2 - Connecting hose



- 3 - Pneumatic support
- 4 - Extraction hose with end part
- 5 - Filler hose with quick-release coupling
- 6 - Unit connecting point
- 7 - Connecting hose
- Connect brake filling and bleeding device, e. g. -VAS 5234- or -VAS 6860-, to the compressed air distribution system.
- Position cock -1- on -B-.



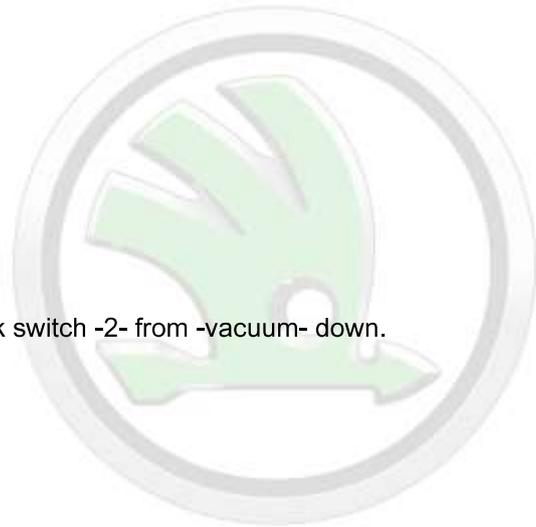
- Set switch -2- upwards on -vacuum-.
- Unscrew cap -1- from the brake fluid reservoir.



Note

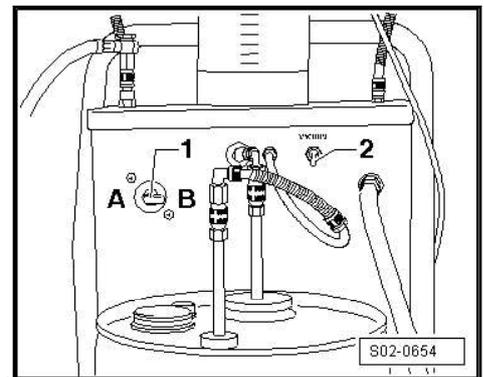
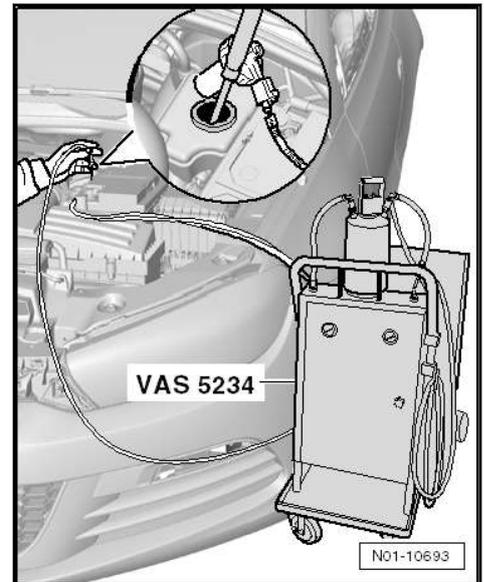
Do not remove the strainer from the brake fluid reservoir.

- Switch on the compressed air distribution, herewith the brake filling and bleeding device, e.g. -VAS 5234- or -VAS 6860-, is operational.
- Use an extraction hose with end part to extract as much brake fluid as possible from the brake fluid reservoir.



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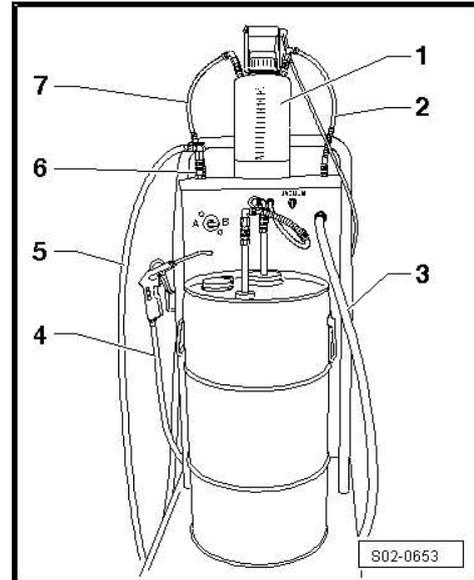
- Set back switch -2- from -vacuum- down.



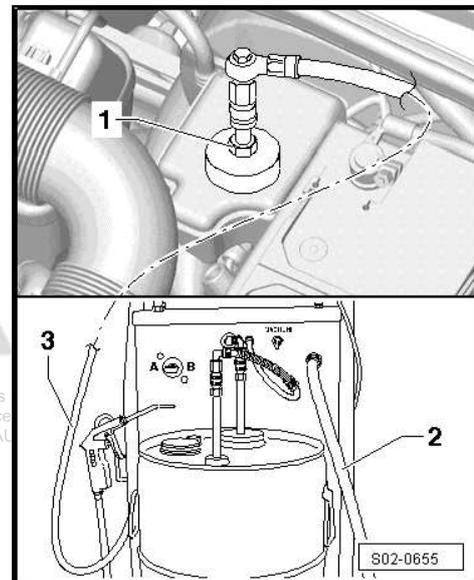
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- Switch off the compressed air distribution, herewith the brake filling and bleeding device, e.g. -VAS 5234- or -VAS 6860-, is no longer operational.

Change brake fluid in slave cylinder - vehicles with manual gearbox

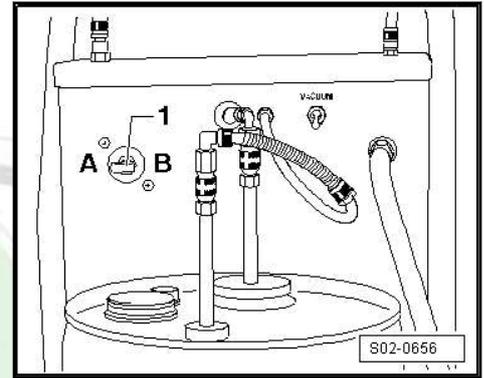
- Remove engine cover.
- Removing the air filter ⇒ Rep. gr. 23; Air filter; removing and installing the air filter housing and/or ⇒ Rep. gr. 24; Air filter; removing and installing the filter housing.
- Activate the filling function of the brake filling and bleeding device, e.g. -VAS 5234- or -VAS 6860-, as follows:



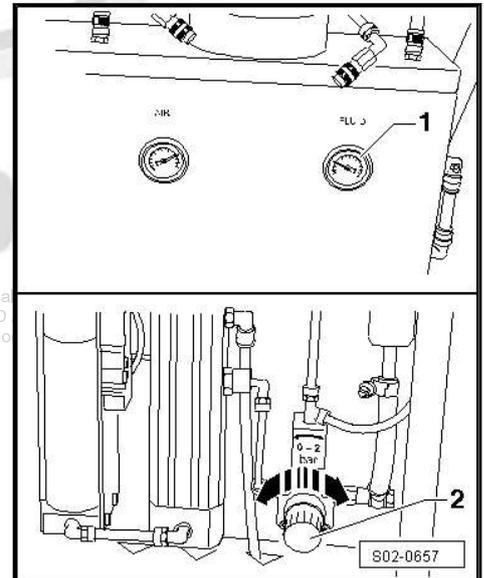
- Detach connecting hoses -2- and -7- from catch pan -1-.
- Detach the filler hose with quick-action coupling -5- from the device connection point -6-.
- Screw the thread plug -1- of the brake filling and bleeding device, e.g. -VAS 5234- or -VAS 6860-, onto the brake fluid reservoir.



- 1 - Thread plug
- 2 - Compressed air distribution
- 3 - Filler hose with quick-release coupling
- Position cock -1- on -A-.



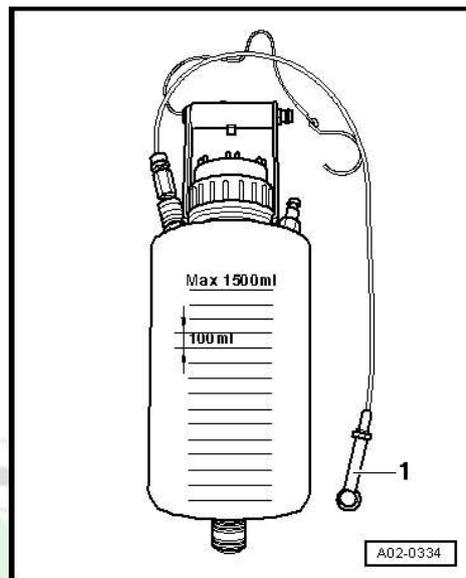
- Switch on the compressed air distribution, herewith the brake filling and bleeding device, e.g. -VAS 5234- or -VAS 6860-, is operational.
- Check brake fluid pressure using the pressure manometer -1-.



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Brake fluid pressure = 0.2 MPa.

- Set the filling pressure e.g. by turning the regulating valve -2-.
- Provide a catch pan for used brake fluid.



Note

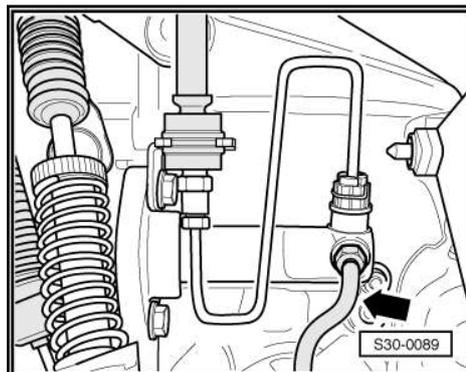
- ◆ Loosen the vent valve using the set of tools for brake bleeding -VAS 6564- and -VAS 6564/9- and tighten. While doing so, pull the bleeder hose through the socket insert with a corresponding hollow adapter piece from this set.
- ◆ Fit a torque wrench on the socket insert with a corresponding hollow adapter piece for tightening the vent valve.
- ◆ As a result of the different versions and fitting locations of the slave cylinder with the vent valve, tightening the vent valve using the set of tools for brake bleeding -VAS 6564- and -VAS 6564/9- (with the torque wrench inserted) is not always possible due to lack of space.
- ◆ In this case, you may need to remove the battery and battery tray ⇒ Electrical system; Rep. gr. 27; Battery; remove and install battery. In doing so, observe the work sequence for disconnecting and connecting the battery ⇒ Electrical system; Rep. gr. 27; Battery; disconnect and connect battery

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- If necessary remove cap from bleeder valve of slave cylinder.

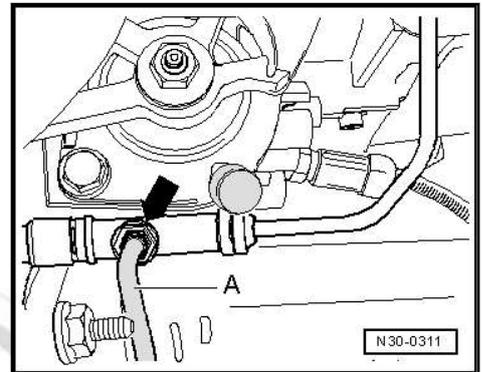
Gearbox 0AJ

- Fit the bleeder hose of the catch pan -arrow- onto the vent valve of the slave cylinder.



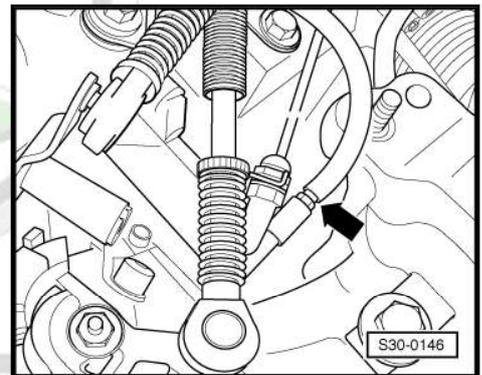
Gearbox 02Q

- Fit the bleeder hose of the catch pan -A- onto the vent valve of the slave cylinder -arrow-.



Gearbox 02S

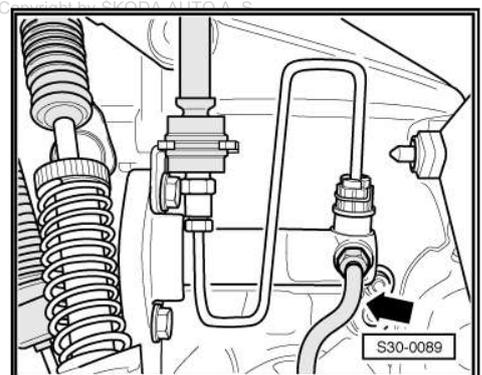
- Fit the bleeder hose of the catch pan onto the vent valve of the slave cylinder -arrow-.



Gearbox 0AF

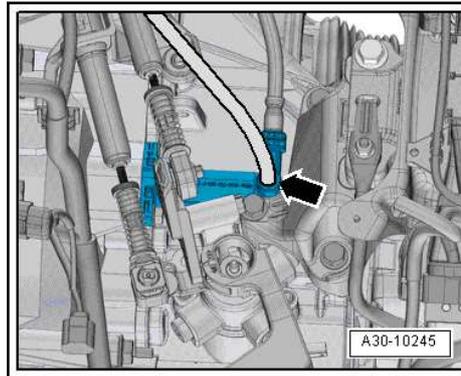
- Fit the bleeder hose of the catch pan -arrow- onto the vent valve of the slave cylinder.

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Gearbox 0AH, 0C9

- Fit the bleeder hose of the catch pan -arrow- onto the vent valve of the slave cylinder.



Continued for all vehicles

- Open vent valve and allow approx. 0.15 litres of brake fluid to flow out.
- Tighten the bleeder valve to the required tightening torque
 ⇒ Brake systems; Rep. gr. 47; Hydraulic system; normal bleeding of the hydraulic system.
- Detach bleeder hose of catch pan.
- If necessary fit the cap onto the vent valve of the slave cylinder.
- Installing the air filter ⇒ Rep. gr. 23; Air filter; removing and installing the air filter housing and/or ⇒ Rep. gr. 24; Air filter; removing and installing the air filter housing.
- After completing the bleeding procedure press the clutch pedal repeatedly.

Change the brake fluid in the brake system



WARNING

Carry out the brake fluid change in the brake system, without removing the wheels from the vehicle.

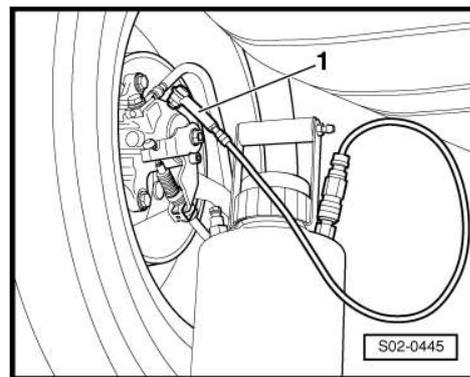
In view of the different versions of the wheels and the brake callipers, tightening the bleeder valves using the set of tools for brake bleeding -VAS 6564- and -VAS 6564/9- (with the torque wrench inserted) cannot always be performed due to lack of space.

In this case, the corresponding wheels must be removed from the vehicle. Do not exchange the wheels and mark their position opposite the brake disc.

The wheels must also be removed on vehicles with multi-control rear arm axles.

Tightening torque of the wheel screws = 140 Nm.

- Raise vehicle.
- Hook in the catch pan on the vehicle.
- Remove the rubber cap from the bleeder valve on the front right wheel.
- Fit bleeder hose -1- of catch pan onto the bleeder valve of the front right wheel.



WARNING

Slacken the bleeder valves using the set of tools for brake bleeding -VAS 6564- and -VAS 6564/9- and tighten. While doing so, pull the bleeder hose through the socket insert with a corresponding hollow adapter piece from this set.

Fit a torque wrench on the socket insert with a corresponding hollow adapter piece for tightening the vent valve.

- Loosen the bleeder valve and allow approx. 0.3 litres of brake fluid to flow out.
- Tighten the bleeder valve to the required tightening torque
⇒ Brake systems; Rep. gr. 47; Hydraulic system; normal bleeding of the hydraulic system.
- Detach hose of catch pan.
- Fit the rubber cap onto the bleeder valve and remove the catch pan from the vehicle.
- Repeat this procedure for all brake callipers.

Sequence for bleeder valves:	Volume of brake fluid which must flow out of the vent valves:
Slave cylinder (manual gearbox only)	0.15 l
Brake caliper	
Front right	0.20 l
Front left	0.20 l
Wheel brake cylinder/brake calliper	
Rear right	0.30 l
Rear left	0.30 l
Total volume, automatic gearbox	approx. 1.00 l
Total volume, manual gearbox:	approx. 1.15 l

- Switch off and disconnect the brake filling and bleeding device.
- Check brake fluid level and screw the cap onto the brake fluid reservoir.
- Activate the brake pedal repeatedly.
- Check that the pedal “does not fall through” when it is pressed down repeatedly with force.



- Check the brake pedal-idle travel on the brake pedal. Idle travel: max. 1/3 of pedal travel.
- Perform a test drive.



Note

During a test drive, at least one ABS adjustment must be carried out on vehicles with ABS.

5.4 Inspecting the brake fluid level

Use only new genuine brake fluid N 052 766.Z0 which conforms to the USA standard FMVSS 571.116 DOT4 and VW standard 501 14.



WARNING

- ◆ **Brake fluid is poisonous. Also due to its corrosive effect brake fluid must not come into contact with paintwork.**
- ◆ **Brake fluid is hygroscopic, i.e. it absorbs moisture from the surrounding air. Therefore it should always be stored in airtight containers.**

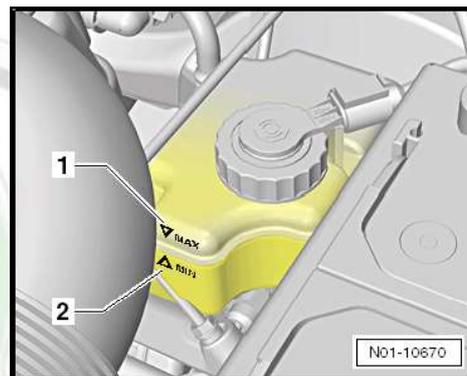


Note

The fluid must not be above the "MAX" marking to prevent fluid flowing out of the reservoir.

Delivery Inspection

During the delivery inspection, the brake fluid level should be at the "MAX" marking -1-.



Inspection:

- The brake fluid level (volume) must always be assessed on the basis of the brake pad wear. When driving a slight drop in the brake fluid level occurs as a result of wear-and-tear and the automatic slack adjustment of the brake pads.
- If the fluid brake level is at the "MIN" marking -2- or slightly above, it is not necessary to top up the brake fluid if the brake pads have almost reached their wear limit.