



**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.



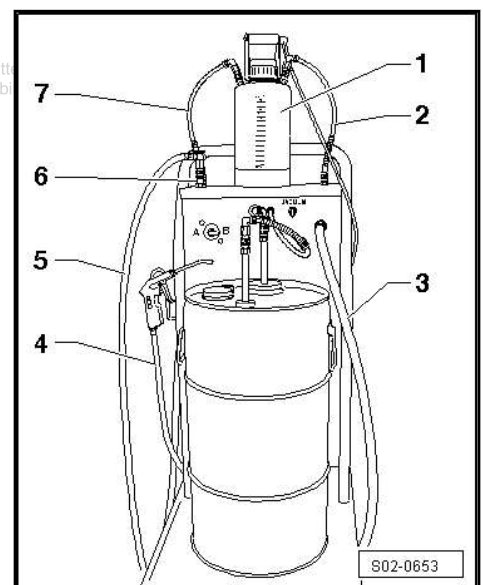
**WARNING**

- ◆ *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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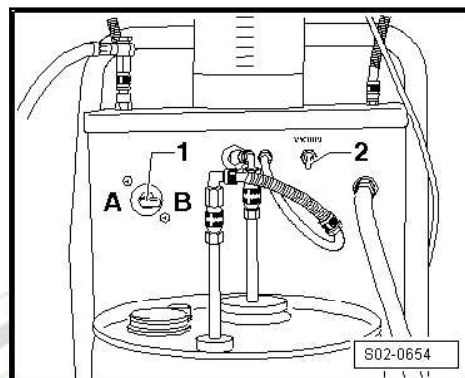


1 - Catch pan

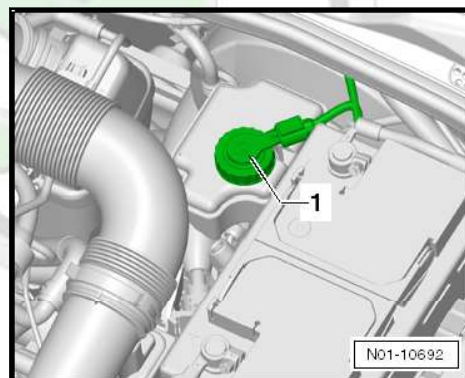
2 - Connecting hose



- 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-.



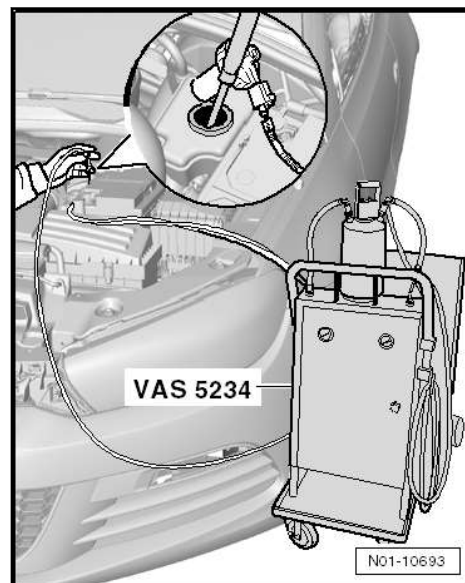
- Set switch -2- upwards on -vacuum-.
- Unscrew cap -1- from the brake fluid reservoir.



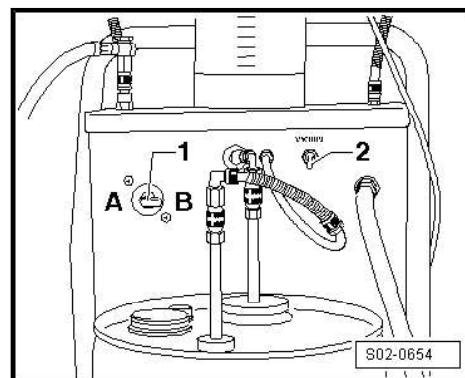
#### Note

**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.



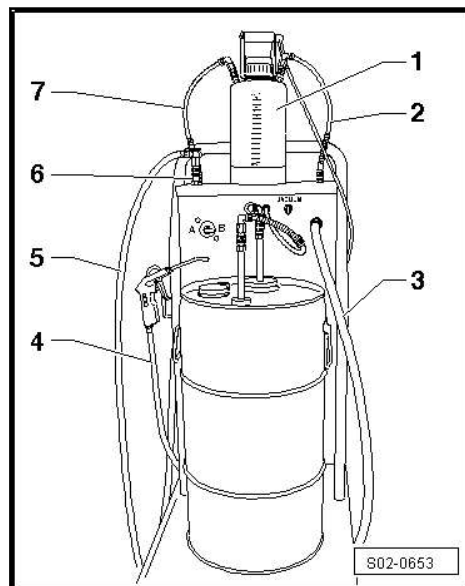
- Set back switch -2- from -vacuum- down.



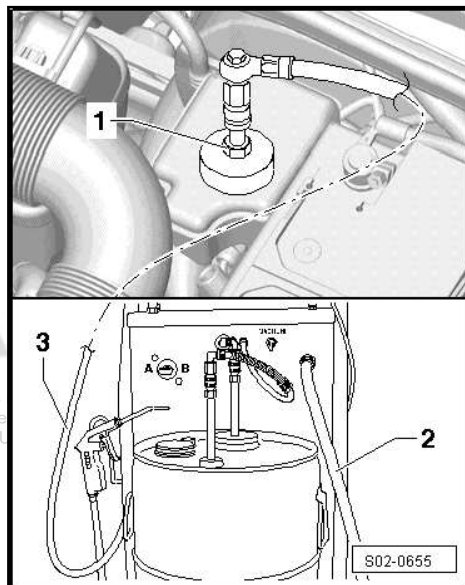
- Switch off the compressed air distribution, herewith the brake filling and bleeding device, e.g. -VAS 5234- or -VAS 6860-, is no longer operational.

#### Change brake fluid in slave cylinder - vehicles with manual gearbox

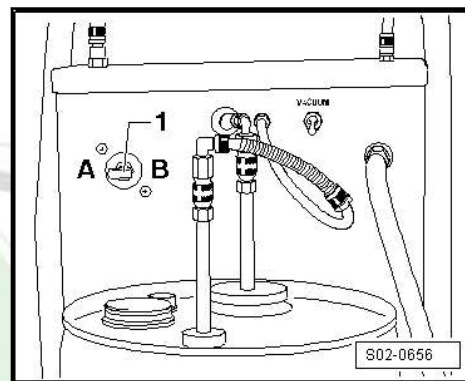
- Remove engine cover.
- Removing the air filter ⇒ Rep. gr. 23; Air filter; removing and installing the air filter housing and/or ⇒ Rep. gr. 24; Air filter; removing and installing the filter housing.
- Activate the filling function of the brake filling and bleeding device, e.g. -VAS 5234- or -VAS 6860-,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



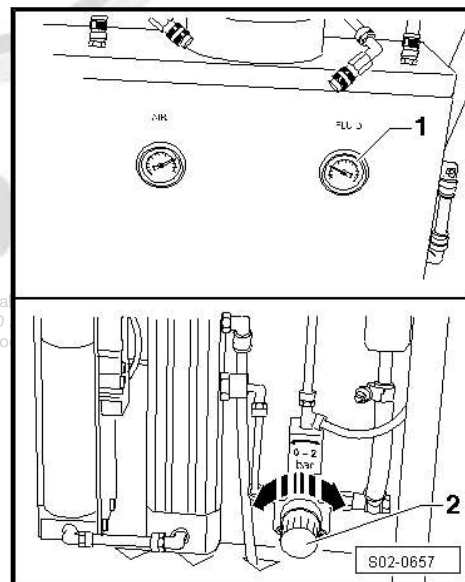
- Detach connecting hoses -2- and -7- from catch pan -1-.
- Detach the filler hose with quick-action coupling -5- from the device connection point -6-.
- Screw the thread plug -1- of the brake filling and bleeding device, e.g. -VAS 5234- or -VAS 6860-, onto the brake fluid reservoir.



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

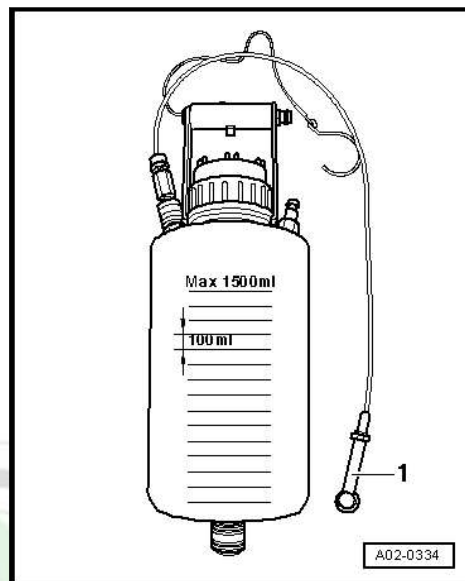


- Switch on the compressed air distribution, herewith the brake filling and bleeding device, e.g. -VAS 5234- or -VAS 6860-, is operational.
- Check brake fluid pressure using the pressure manometer -1-.



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

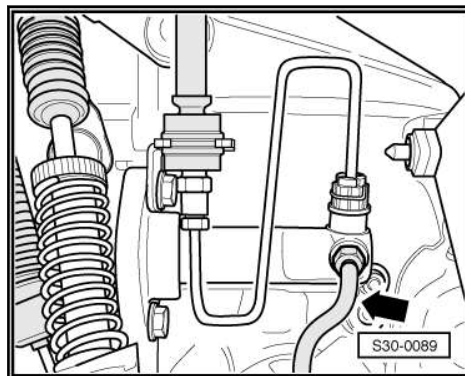
- ◆ Loosen the vent valve using the set of tools for brake bleeding -VAS 6564- and -VAS 6564/9- and tighten. While doing so, pull the bleeder hose through the socket insert with a corresponding hollow adapter piece from this set.
- ◆ Fit a torque wrench on the socket insert with a corresponding hollow 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

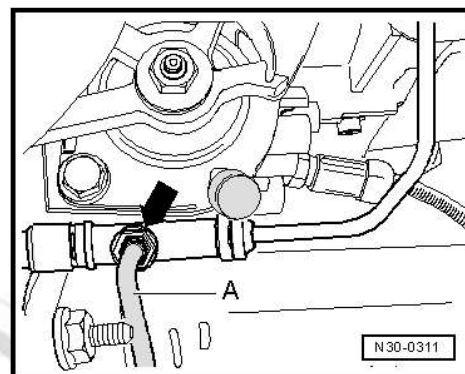
- Fit the bleeder hose of the catch pan -arrow- onto the vent valve of the slave cylinder.





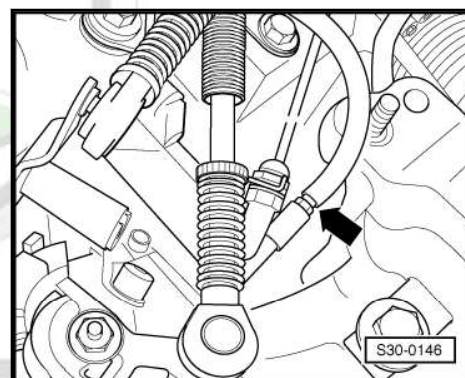
### Gearbox 02Q

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



### Gearbox 02S

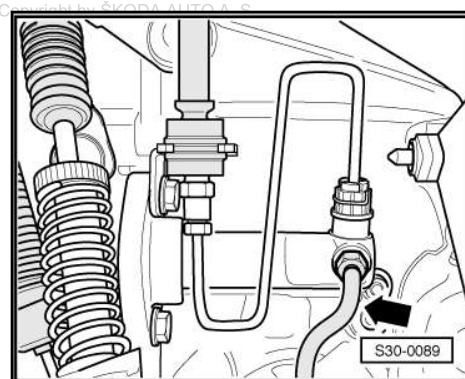
- Fit the bleeder hose of the catch pan onto the vent valve of the slave cylinder -arrow-.



### Gearbox 0AF

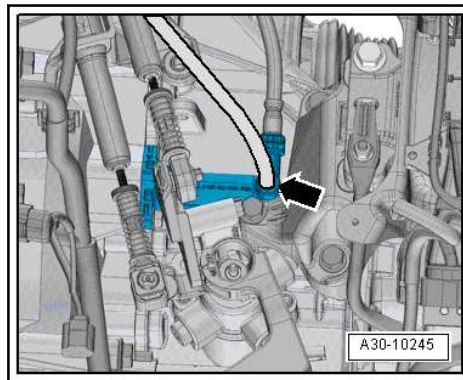
- Fit the bleeder hose of the catch pan -arrow- onto the vent valve of the slave cylinder.

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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.***

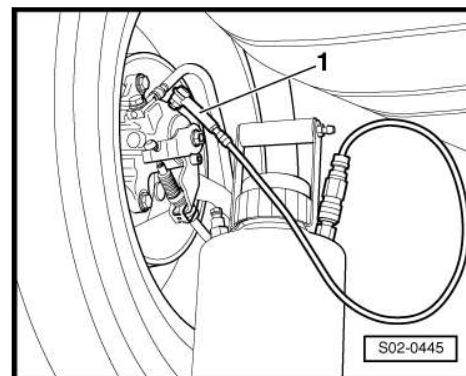
***In this case, the corresponding wheels must be removed from the vehicle. Do not exchange the wheels and mark their position opposite the brake disc.***

***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.**

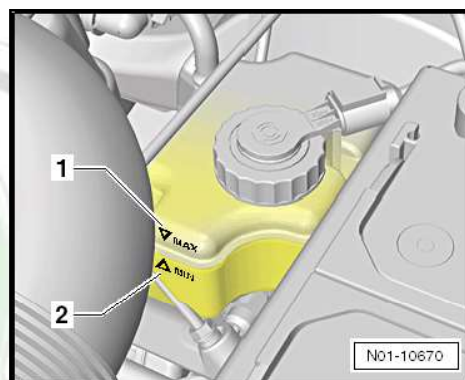


#### Note

*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.