

- Using the suction hose from brake filling and bleeding unit , extract as much brake fluid -2- from the brake fluid reservoir as possible through the strainer -1-.

 **NOTICE**

The strainer in brake fluid reservoir must not be removed.

Ensure that no brake fluid runs through the strainer after completing the extraction (the brake fluid level in the reservoir must be even with the lower edge of the strainer).

 **CAUTION**

The siphoned (used) brake fluid can not be re-used.

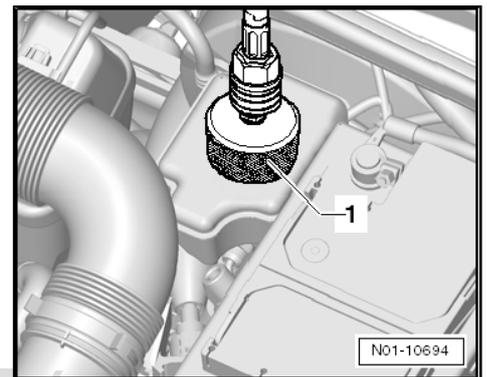
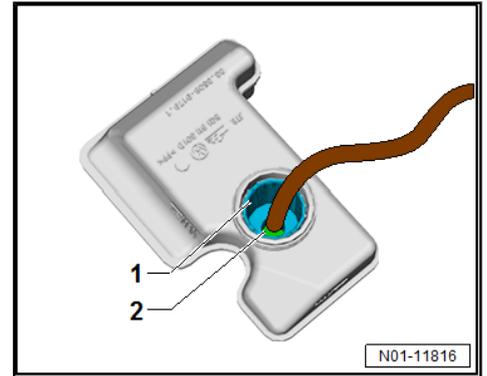
 **NOTICE**

When working on the electrical system with some electrical consumers switched on, such a e.g. the brake filling and bleeding equipment - VAS 5234- , the battery must be charged with a charging device with "support mode", in order to prevent damage to the battery => Electrical system, general information; Rep. gr. 27 ; Battery support mode .

- Attach adapter -1- of brake filling and bleeding equipment - VAS 5234- to brake fluid reservoir.
- Connect the filler hose of the brake filling and bleeding equipment - VAS 5234- to the adapter -1-.
- Set correct pressure in brake filling and bleeding equipment - VAS 5234- (see Owner's Manual).

Vehicles with manual gearbox

- Remove the air filter housing, where necessary.
- ◆ Diesel engines => Rep. gr. 23
- ◆ Petrol engines => Rep. gr. 24
- Remove the purge screw cap from the clutch slave cylinder.

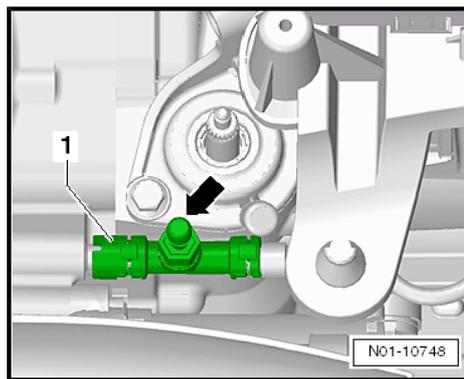


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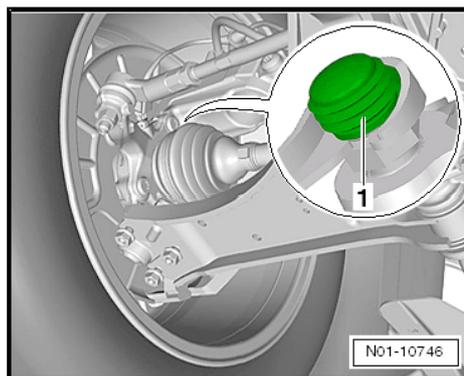
- Connect the breather line of the brake filling and bleeding equipment - VAS 5234- to the bleeder screw -arrow- of the slave cylinder -1-.
- Open the bleeder screw and drain approx. 0.1 litres.
- Close the bleed screw.
- Rapidly operate clutch pedal from stop to stop 10 to 15 times.
- Open the bleeding screw.
- Drain of approx. 0.05 l. of brake fluid.
- Close bleed screw and install cover cap.
- Press the clutch pedal several times.
- If removed, install air filter housing:
 - ◆ Diesel engines ⇒ Rep. gr. 23
 - ◆ Petrol engines ⇒ Rep. gr. 24



Tightening torque	Nm
Bleeder screw of the clutch slave cylinder	4.5

Continuation for all vehicles

- Remove the bleeder screw caps -1- on the brake callipers.



- Connect bleeder hose -1- of the front left bleeder hose.
- Open bleed screw and let appropriate quantity of brake fluid run out (see table ⇒ [page 135](#)).

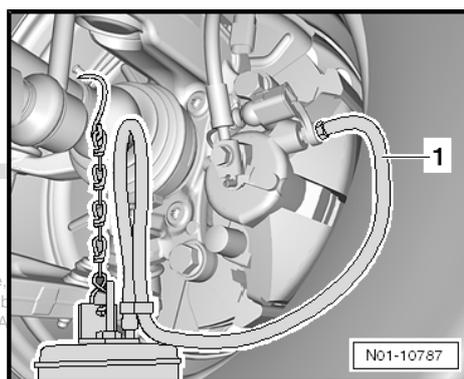
NOTICE

Start with front right brake caliper on RHD vehicles.

Use suitable bleeder hose. The pipe must be connected tightly onto the bleeder screw, so that no air enters the brake system.

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- Then pull off bleeder screw, pull off breather hose and attach the protective cap to the bleeder screw.



Tightening torque	Nm
Bleeder screw of the brake caliper	10

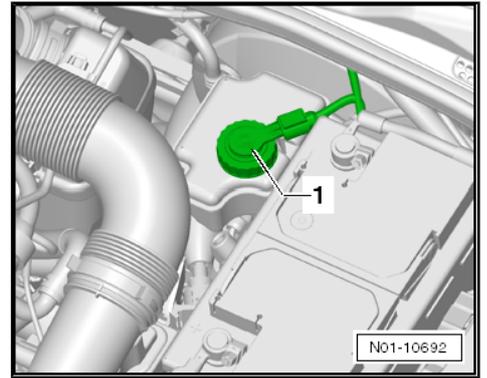
- Repeat the bleeding process in the rest of the brake callipers following the indicated order (see table ⇒ [page 135](#)).

- Fill the brake fluid reservoir to the “MAX” mark, taking into account the wear to the brake pads, and screw on the cap-1-.
- Start the engine and check the run and pressure of the brake pedal. Free play: max. $\frac{1}{3}$ of pedal travel.

! NOTICE

If there is excessive brake pedal movement, check for leak faults in the brake system and / or repeat the air bleeding process.

- Perform a test drive of the vehicle to check the operating function of the brakes.



4.63.2 Table of work sequence and brake fluid quantities

Work sequence, drain plugs:	Quantity of brake fluid to be drained off:	
	Left-hand drive vehicle	Right-hand drive vehicle
Brake calliper		
Front left	0.20 litres	0.4 litres
Front right	0.20 litres	0.4 litres
Rear left	0.30 litres	0.6 litres
Rear right	0.30 litres	0.6 litres
Clutch slave cylinder	0.15 litres	0.15 litres
Total amount (Automatic gearboxes)	approx. 1.00 litres	approx. 2.00 litres
Total amount (manual gearboxes)	approx. 1.15 litres	approx. 2.15 litres

4.64 Headlights – check adjustment

⇒ [“4.64.1 Testing and adjusting conditions”, page 136](#) .

⇒ [“4.64.2 Halogen headlights: Check setting”, page 138](#) .

⇒ [“4.64.3 LED headlights: Check setting”, page 139](#) .

⇒ [“4.64.4 Adjusting the headlights”, page 140](#) .

Special tools and workshop equipment required

- ◆ Headlight adjustment unit

The following descriptions for adjustment and verification are generally valid for all countries. However, national legislation and guidelines for individual countries must be adhered to.

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