

## Removing and installing hydraulic control unit

### Special tools and workshop equipment required

- ♦ Torque wrench -V.A.G 1331-
- ♦ Brake pedal actuator -V.A.G 1869/2-

#### V.A.G 1331



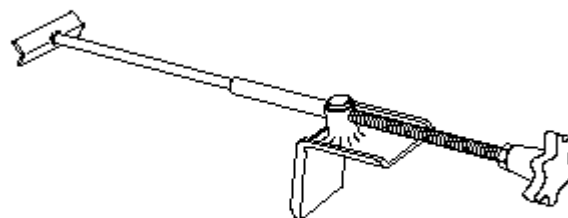
W00-0427

- ♦ Sealing plugs (repair kit) -1H0 698 311 A-

### Removing

Fitting location:

#### V.A.G 1869/2



W00-0679

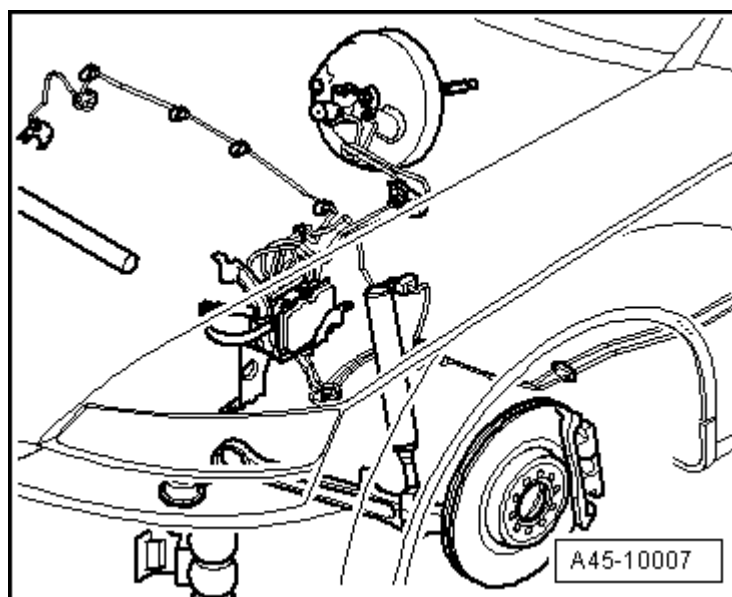
The hydraulic control unit is fitted on the left-hand side of the engine compartment.



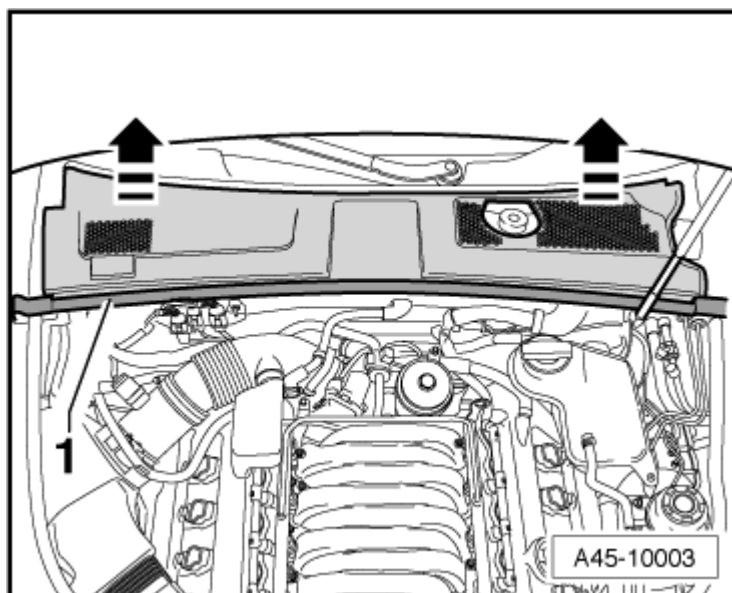
#### **WARNING**

***Do not bend the brake lines.***

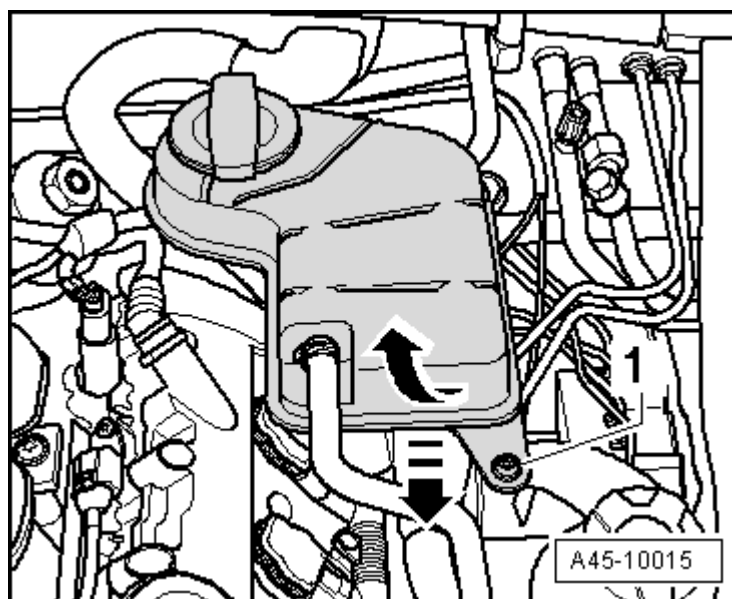
- Note or request radio code on vehicles with coded radio if necessary.
- Disconnect battery →Rep. gr.27



- Remove rubber seal -1-.
- Detach plenum chamber cover →Rep. gr.50.



- Remove hexagon bolts -1- securing coolant expansion tank.
- Unplug connector from coolant expansion tank.
- Move coolant expansion tank clear to one side.



- Insert brake pedal actuator -V.A.G 1869/2-

between brake pedal and driver's seat.  
Depress the brake pedal at least 60 mm.

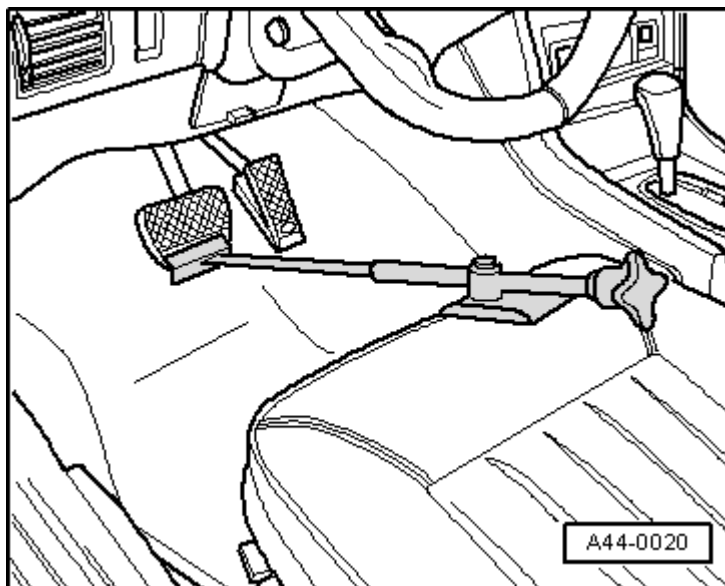
- Connect hose of bleeder bottle to bleeder screws of front left and rear left brake calipers and open bleeder screws.



**Note**

*This will release the pressure in the hydraulic unit.*

- Close front left and rear left bleeder screws.
- Do not remove brake pedal actuator -V.A.G 1869/2-.
- As protection against escaping brake fluid, place a sufficient number of lint-free cloths in area beneath control unit and hydraulic unit.



**Note**

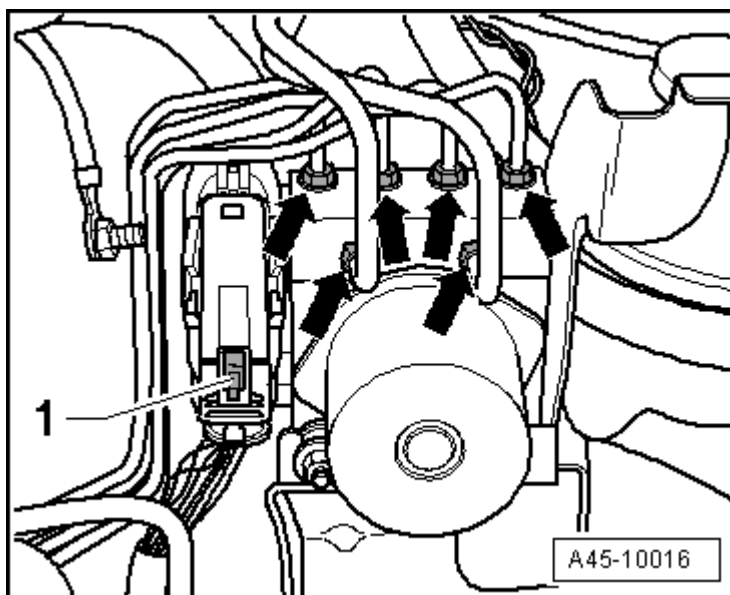
*Mark brake lines with numbers.*



**WARNING**

***Do not bend the brake lines in the vicinity of the hydraulic unit.***

- Completely unscrew brake lines from brake master cylinder.
- Disconnect remaining brake lines -arrows- on hydraulic unit.
- Seal brake lines and tapped holes with sealing plugs from repair kit.



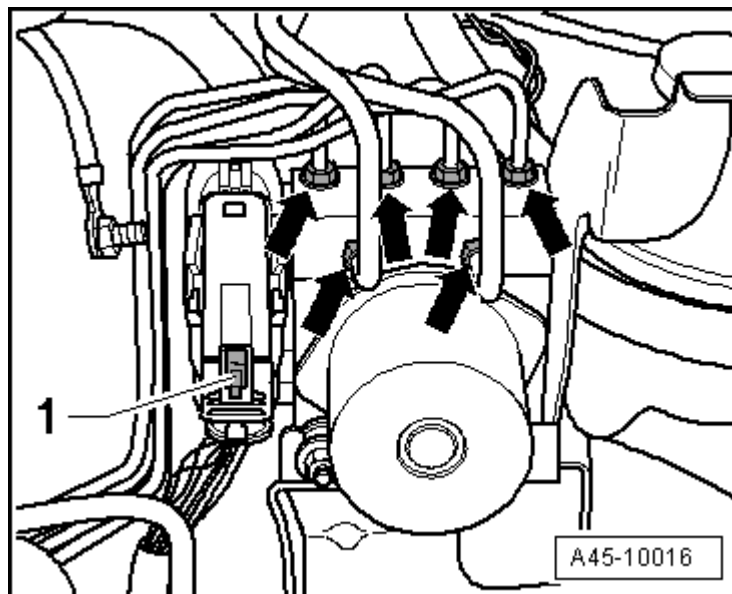
- Press red retainer catch upwards.



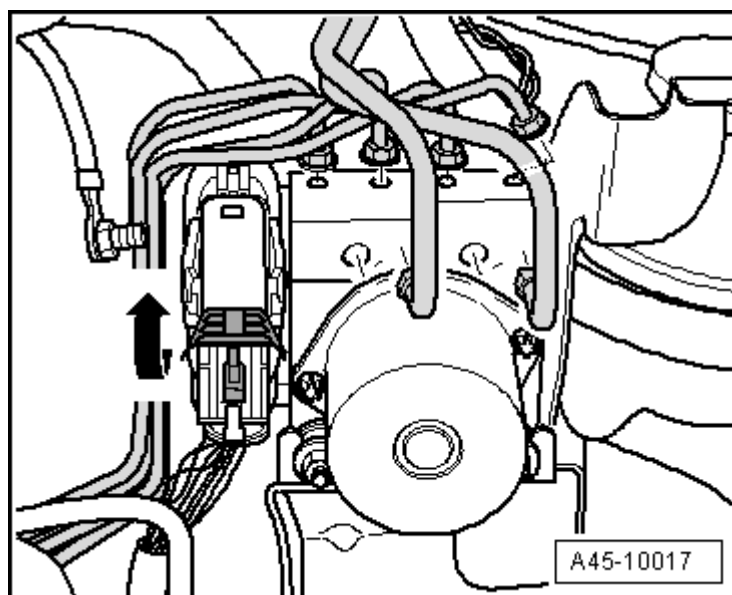
**Note**

- ♦ *Make sure brake fluid does not get into connector housing of control unit. This can result in corrosion of the contacts and failure of the system.*
- ♦ *Use compressed air to carefully clean connector housing if necessary.*
- Release control unit connector -arrow- and

unplug.



- Push retaining clip in -direction of arrow- and unplug connector.



- Remove bolts -1-.
- Remove hydraulic control unit.

### Installing

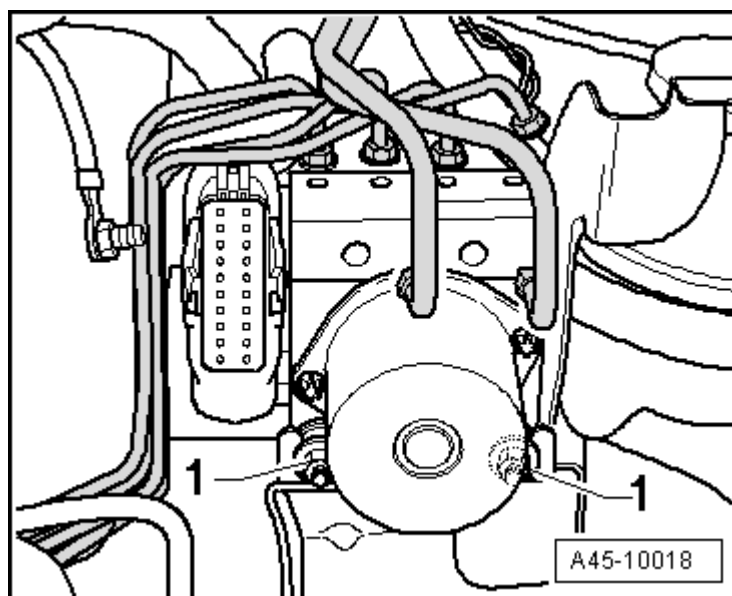
Installation is performed in reverse sequence; note the following:



#### Note

- ♦ Do not remove sealing plugs from new hydraulic unit until corresponding brake line is ready to be fitted.
- ♦ If sealing plugs are removed from hydraulic unit sooner, brake fluid may escape and it may no longer be possible to fill and bleed the unit properly.

- Fit hydraulic control unit in bracket.
- Connect pipes as previously marked:



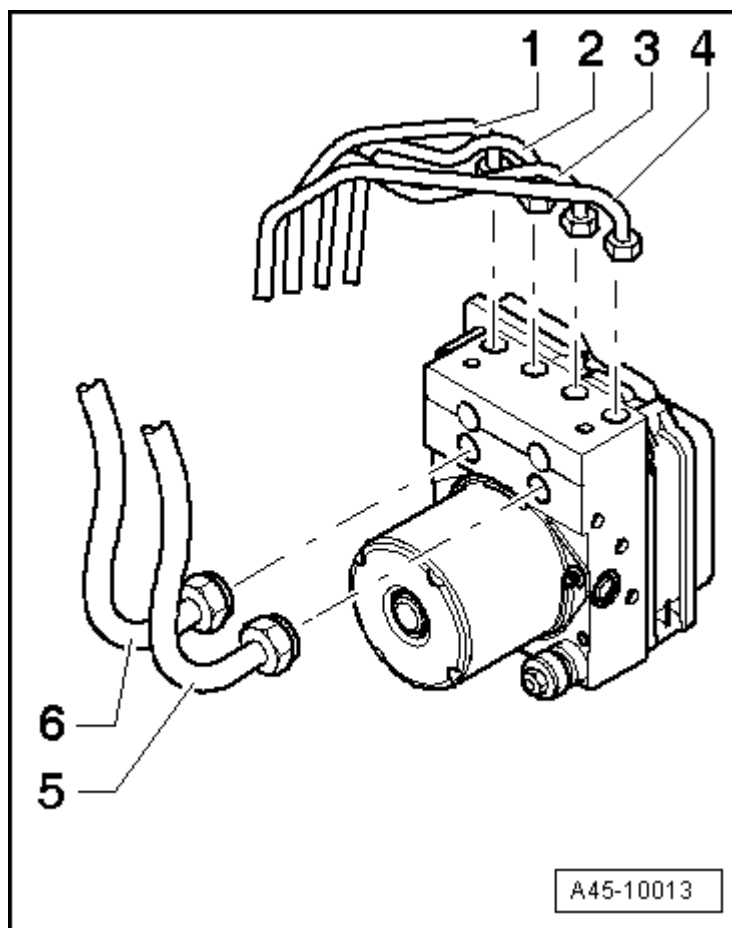
- 1 - To front right brake caliper "VR"
- 2 - To rear left brake caliper "HL"
- 3 - To rear right brake caliper "HR"
- 4 - To front left brake caliper "VL"
- 5 - To primary piston circuit "HZ 1"
- 6 - To secondary piston circuit "HZ 2"



**Note**

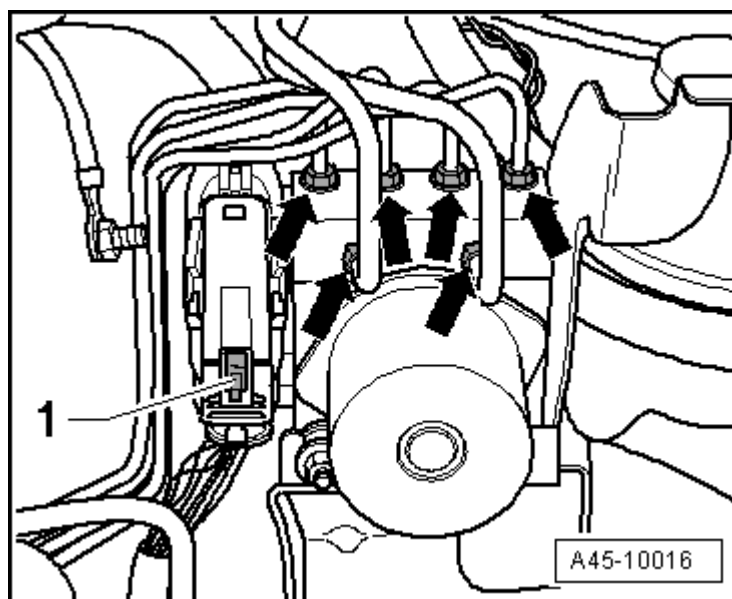
*Do not tighten bolts completely. This will make it easier to attach the individual brake lines to the hydraulic unit.*

- Attach connector to hydraulic control unit and lock connector.



- Press down red retainer catch.

**Tighten connections of all brake lines to hydraulic unit and brake master cylinder.**



- After tightening brake lines, tighten hydraulic unit -1-.
- Remove brake pedal actuator -V.A.G 1869/2-.
- Bleed brake system → **Chapter**.
- Code ABS with EDL control unit -J104-.  
→ Code control unit using VAS 5051 via "Guided fault finding" function.

- When renewing the control unit, select the “Replace” function for the relevant control unit in the “Guided Fault Finding”.

**To do so, use the vehicle diagnostic, testing and information system -VAS 5051B- or -VAS 5052.-.**

- Perform final control diagnosis after attaching brake lines to hydraulic unit  
→ Vehicle diagnostic, testing and information system VAS 5051B or VAS 5052.

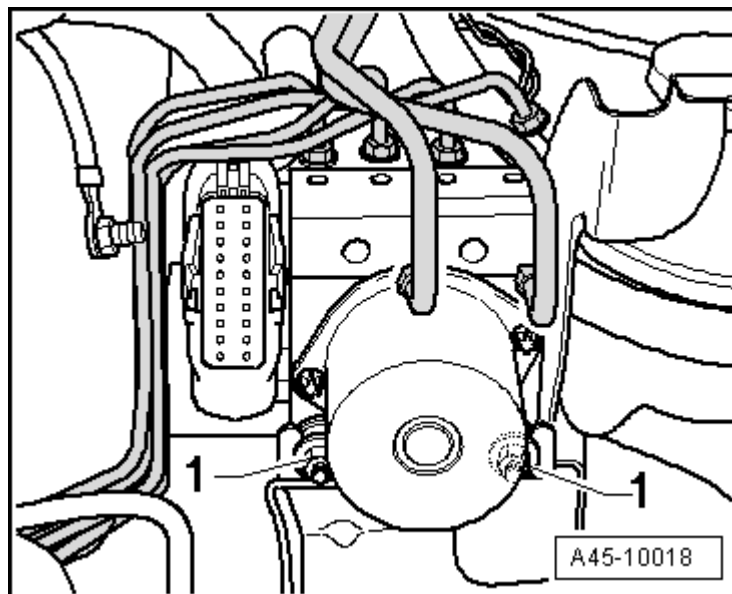


#### Note

*The final control diagnosis indicates whether the connection has been interchanged.*

#### Tightening torques

Component	Nm
Brake lines to hydraulic unit M10 (brake line diameter 5 mm)	12
Brake lines to hydraulic unit M12 (brake line diameter 5 mm)	12
Brake lines to hydraulic unit M12 (brake line diameter 8 mm)	16



#### Caution

***Make sure that the brakes work properly before the vehicle is driven on the road.***