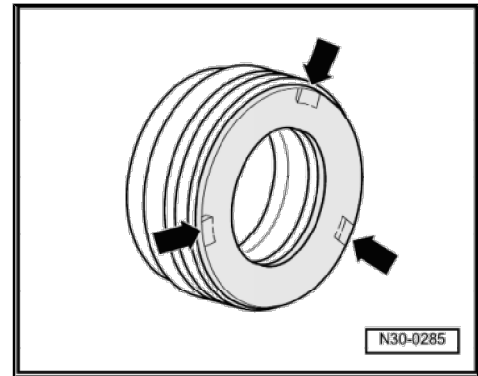


Servicing release bearing with plastic ring

If the release bearing has a plastic ring, this plastic ring will sometimes come loose from the release bearing when the gearbox or the release bearing is removed. However, this does not mean that the release bearing has to be renewed.

- Before installing the gearbox, glue the loose plastic ring back onto the bearing with adhesive -AMV 195 KD1 01- .
- Three square lugs -arrows- of the plastic ring engage in the recesses of the bearing ring.



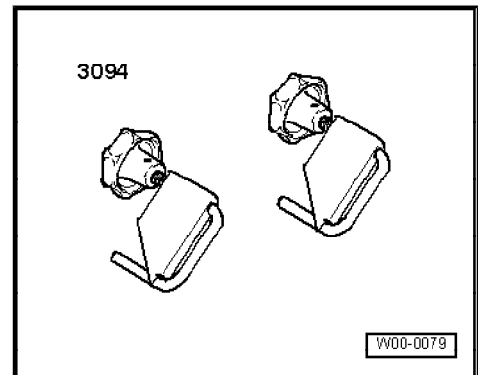
 **Note**

The release bearing must be renewed if the plastic ring has worn more than 0.5 mm on the contact surface.

2.2 Removing and installing clutch slave cylinder

Special tools and workshop equipment required

- ◆ Hose clamps, up to Ø 25 mm -3094-



- ◆ Lithium grease -G 052 150 A2-
- ◆ Copper grease -Z 381 351 TE-

Removing

Observe notes on removing and installing clutch master cylinder and slave cylinder ⇒ [page 24](#) .

 **Note**

- ◆ *If slave cylinder is removed from gearbox with pipe/hose assembly still attached, make sure you do not press clutch pedal. Otherwise, the piston will be pressed out of the slave cylinder and be destroyed.*
- ◆ *Do not allow brake fluid to come into contact with the gearbox. If necessary, clean the gearbox housing.*

Vehicles with V6 TDI engine:

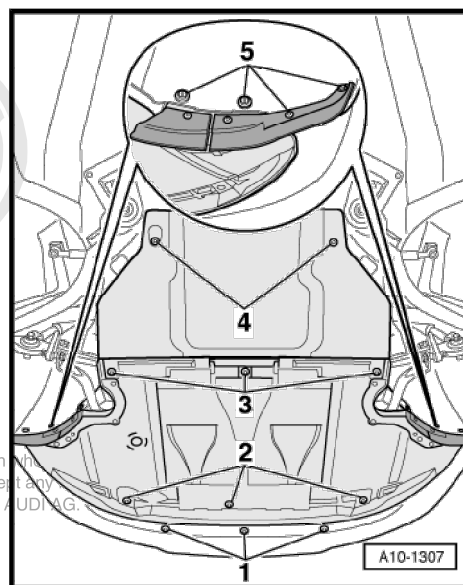
- Release fasteners -3- and -4- and remove rear section of noise insulation.



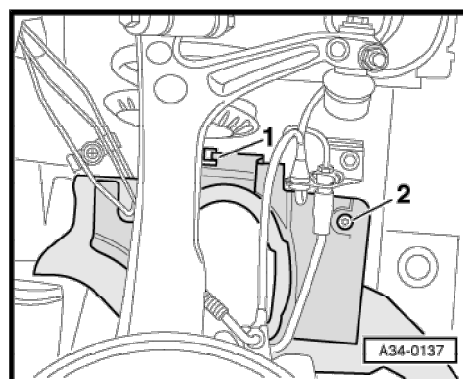
Illustration shows vehicle from model year 2002 onwards.



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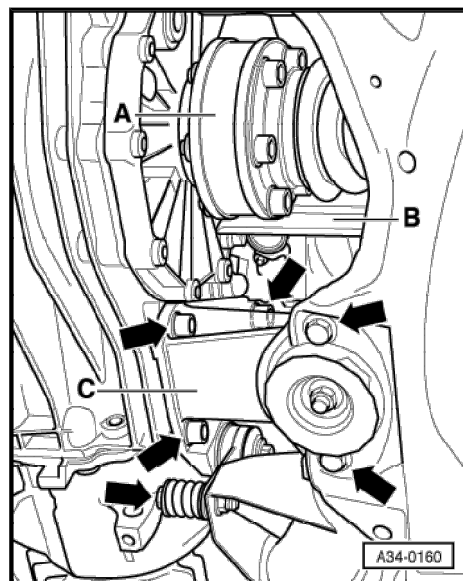


- Remove bolt -2- on noise insulation above drive shaft (left-side).
- Disengage retainer -1- and remove noise insulation cover.



All versions:

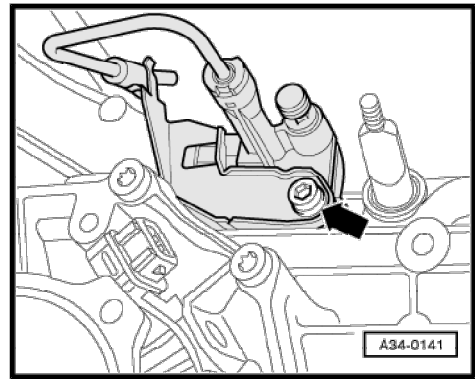
- Unbolt drive shaft -A- (left-side) from flange shaft and move clear to one side.
- Remove heat shield -B- from gearbox.
- Remove bolts -arrows- and remove gearbox support -C- (left-side) together with gearbox mounting.



- Unscrew bolt -arrow- and pull off clutch slave cylinder to rear.

 **Note**

Do not depress clutch pedal after removing clutch slave cylinder.



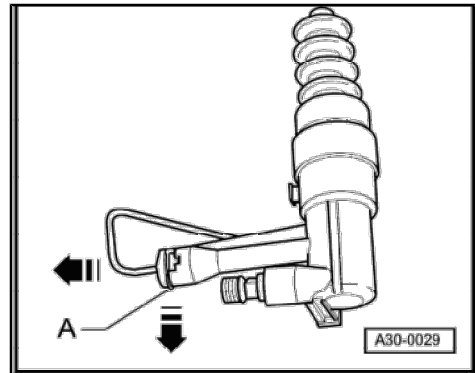
- Using hose clamp -3094- , clamp off pipe/hose assembly.
- Release retaining clip -A- using a screwdriver and pull out as far as stop.
- Detach pipe/hose assembly from clutch slave cylinder.

Installing

Installation is carried out in reverse sequence; note the following:

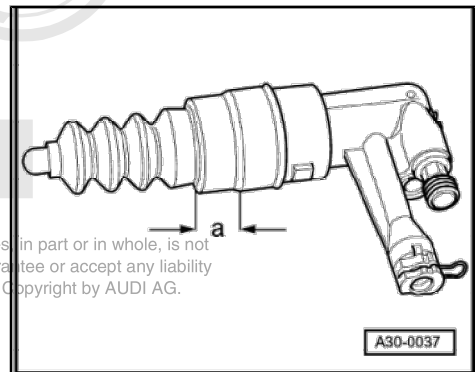
 **Note**

- ◆ *Renew securing bolt.*
- ◆ *When installing, press in slave cylinder so that securing bolt can be fitted easily.*
- ◆ *For easier installation engage 6th gear before fitting slave cylinder.*



- Before inserting slave cylinder in gearbox housing, lubricate area -a- of sleeve with lithium grease -G 052 150 A2- .
- Lightly lubricate surface where plunger and clutch release lever make contact with copper grease -Z 381 351 TE- .

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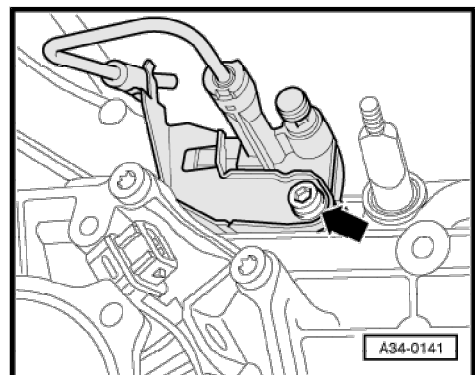


- Guide slave cylinder into mounting hole in gearbox housing, keeping it as far as possible in line with operating direction of plunger.

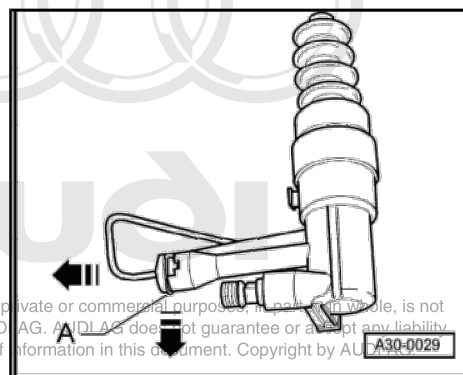
 **Note**

If the clutch slave cylinder is inserted at an angle, there is a danger that the plunger will be guided past the clutch release lever.

- Secure clutch slave cylinder with new bolt -arrow-.



- Press retaining clip -A- in clutch slave cylinder onto limit stop.
- Push pipe/hose assembly -B- onto connection on clutch slave cylinder so that retaining clip snaps into place.
- Pull pipe/hose assembly to check that it is securely seated.
- Install gearbox support with gearbox mounting.
- Bolt drive shaft to flange shaft => Running gear, front-wheel drive and four-wheel drive; Rep. gr. 40 .



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Note

After installing the slave cylinder press the clutch pedal carefully. If you feel an unusually strong point of resistance when depressing the clutch pedal, you must not press it down further. The plunger of the slave cylinder is likely to have been guided past the clutch release lever. The slave cylinder would then be destroyed once pedal force exceeds approx. 300 N.

The remaining installation steps are carried out in reverse sequence; note the following:

- The clutch system has to be bled after installing the slave cylinder if the pipe/hose assembly was disconnected at the slave cylinder => [page 27](#) .

Tightening torques

Component	Nm
Slave cylinder to gearbox	23 ¹⁾
Gearbox support to gearbox	40
Gearbox mounting to subframe	23
Heat shield for drive shaft to gearbox	23

1) Renew bolt.