

## Removing transmission

Special tools: [998 5972](#) , [999 5006](#) , [999 5460](#) , [999 5463](#) , [999 5488](#) , [999 5681](#) , [999 5682](#) , [999 5972](#)

### Remove engine compartment components

Remove:

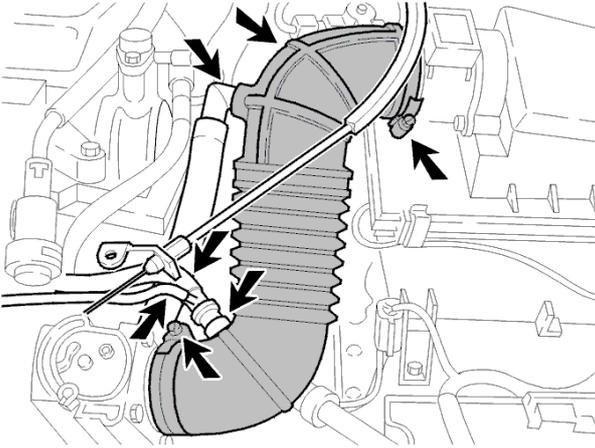
- air cleaner (ACL) housing, see [Air cleaner \(ACL\), replace](#) .
- battery shelf.

### Remove the air intake hose

Remove:

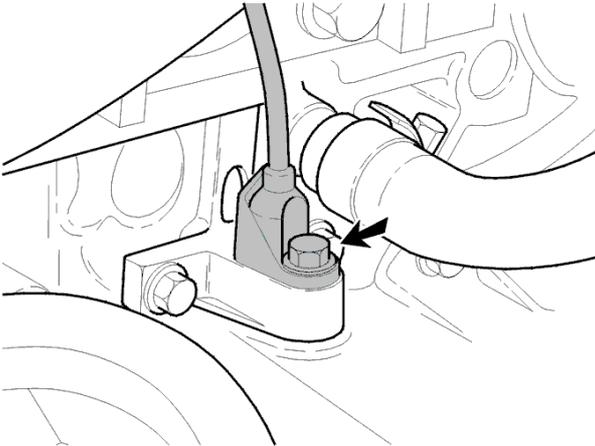
- the throttle body cover.
- Pcv valve hose from air intake hose.
- Pcv hose.
- Vacuum hose (small).
- Pcv hose (short).

Undo the clamp and take the hose off.



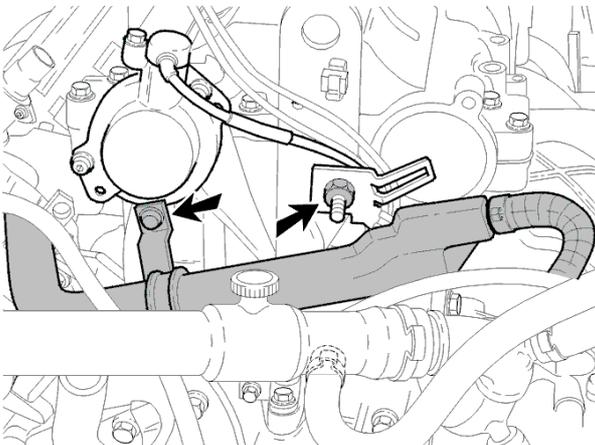
### Remove flywheel sensor

- Clean surrounding.
- Remove bolt.
- Take sensor out and move sideways.



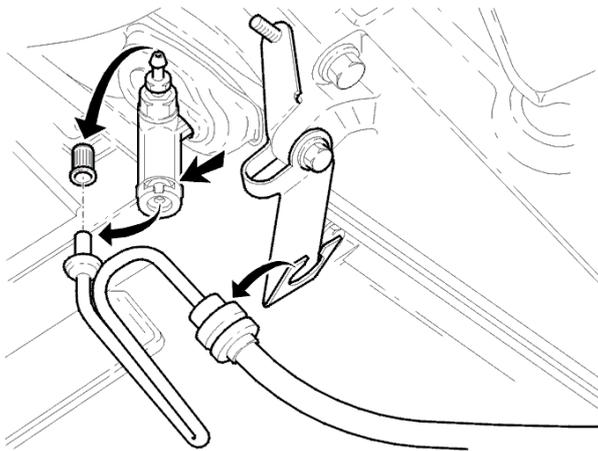
### Undo cable guide from engine + cable from clips x 3

- Remove plug.
- Remove nut.
- Move guide sideways.
- Open the clips and pull cable hose out.



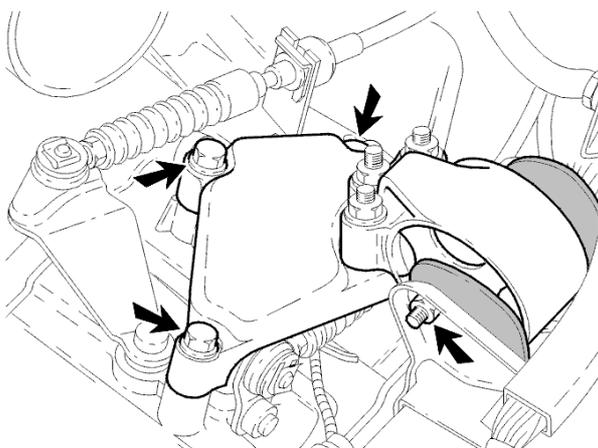
### Undo cable guide from clutch bracket

Remove nut.  
Pull guide bracket.



### Disconnect clutch hydraulic pipe from junction

Remove retaining clip at junction.  
 Pull the hose out the bracket.  
 Pull connection out.  
 Protect openings against contamination.  
 Wipe up any brake fluid spillage.



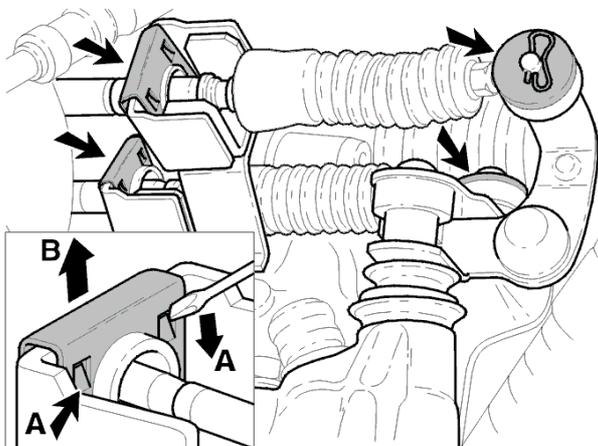
### Install support

#### Install:

- lifting beam [999 5006](#) directly above rear lifting eye.
- lifting hook [999 5460](#) . Raise the engine a little.

Remove transmission mounting bolt out the bodywork and remove 3 bolts out of the transmission bracket.

Remove complete mounting.



### Removing gear selector cables from transmission

#### Remove:

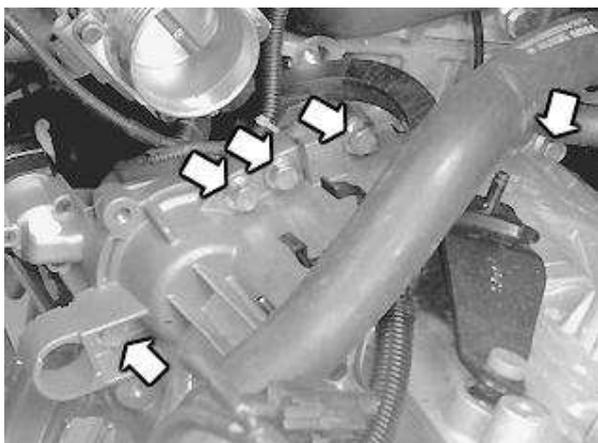
- retaining clip and washers for gear selector cables.
- retaining clip (B) from bracket.

**Warning!** Lift the Lock facings (A). Use a small screwdriver.

Remove cables from bracket.

Undo the connector to the rear light switch.

Undo the electrical connection.



### Remove screwed joint, transmission/engine

#### Remove:

- three bolts between transmission and engine.
- two bolts between transmission and starter motor.
- move the starter motor backwards.

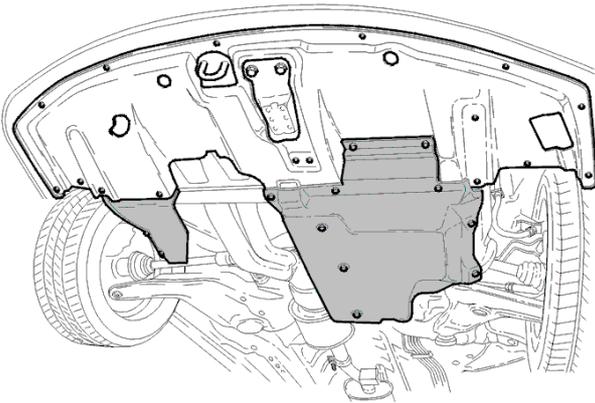
### Undo the drive shaft nut at the left side

- Remove cover.
- Undo nut.

### Remove front wheels and splashguards

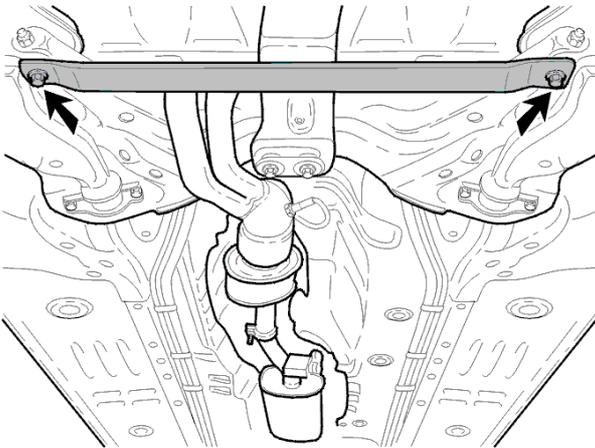
#### Raise car and remove:

- splashguard at the front edge and on the left side.
- front wheels.
- side panel at the left side.



### Remove the stay on the front cross member

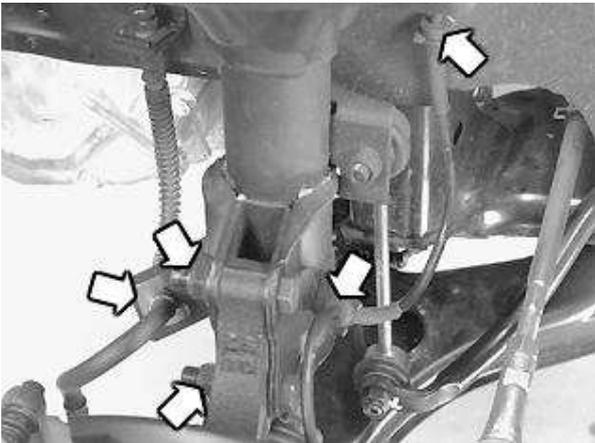
- Remove the bolts.
- Take the bar (stay) away.



### Remove on left and right-hand side

#### Remove:

- brake hose from spring strut mounting (remove clamp).
- ABS line from mountings in the wheel arch and in the spring strut.
- spring strut-stub axle nuts. Leave the bolts in place.



### Remove drive shaft on the left-hand side

**Note!** If the transmission is to be replaced: Drain the oil.  
Tighten the drain plug to 35 Nm.



### Remove at wheel side

Remove the nut from the drive shaft, turn hub outside (right).

Pull drive shaft carefully out hub, use a plastic or a rubber hammer etc.

Temporarily secure the hub to the springstrut with one of the bolt.

**Note! Do not destroy or soil the bracket hose.**

### Remove drive shaft from gearbox

Disconnect drive shaft from transmission so that the snap ring releases from the differential gear. Use a gimmy bar **999 5681**.

Remove the driveshaft.

Install plug **999 5488** in the opening of the gearbox.

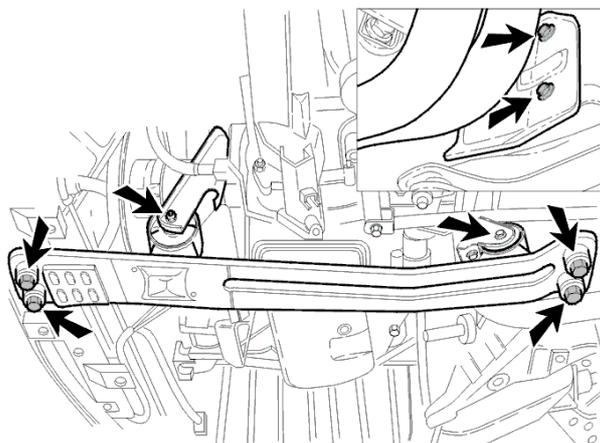
### Remove longitudinal member

Remove:

- heat shield by undoing two bolts for rear bracket.
- two bolts (A) from engine pads.
- four bolts (B) from front-rear member.

Pull out the two bolts from the engine pads.

Remove the front rear member.

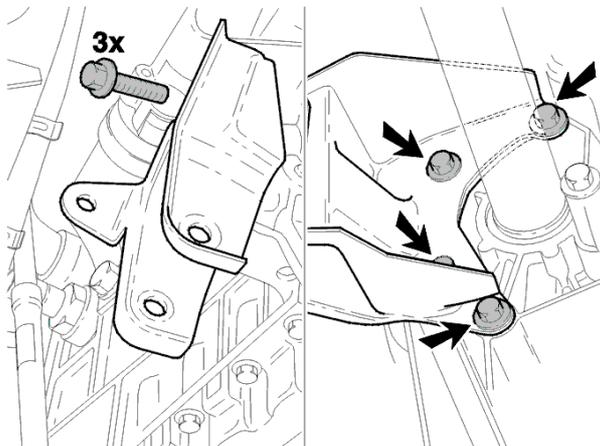
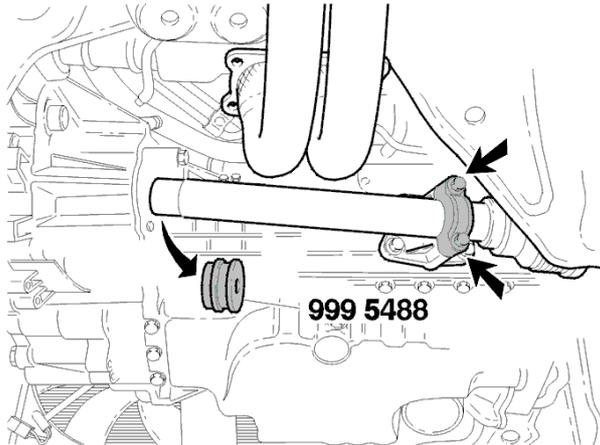
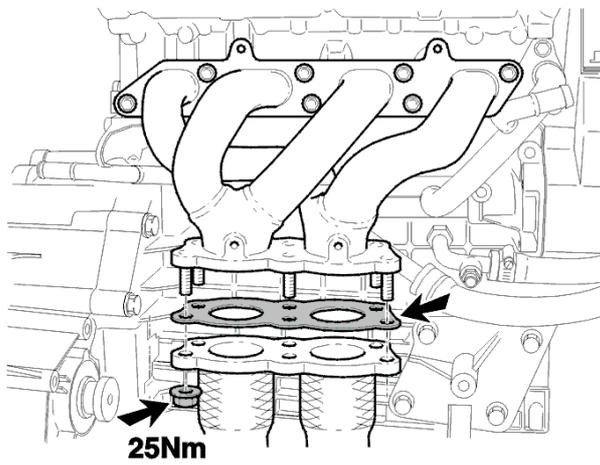


### Remove the front exhaust pipe from the engine

- Spray antirust.
- Remove the nuts and pull pipe from manifold.

### Securing engine

Install special tools **999 5682** between towing eyelet and engine (use a M10 bolt at the rearside of the engine).



### Disconnect on the right side

Turn stub axle to the right as much as possible. Remove the drive shaft pilot bearing cover. Remove the hub from the spring strut. Twist the stub axle out and pull out the drive shaft from the transmission and bearing housing. Turn the shaft forward. Hang it up with a tie strap to the front exhaust pipe (upwards). Take care not to damage the sealing ring in the transmission. Install plug **999 5488**. Temporarily secure the stub axle to the spring strut with one of the bolts.

### Remove gearbox brackets

- Remove front (3 bolts) and rear transmission brackets (4 bolts).
- Screw on exhaust pipe mounting.
- Undo lambda sonde cable from clip.
- Pull front grommet out the body.

**Lower engine until the distance between lifting beam and lifting eyelet is approximately 200 mm. See illustration.**

**Note! Ensure that cables and hoses are not trapped or stretched.**

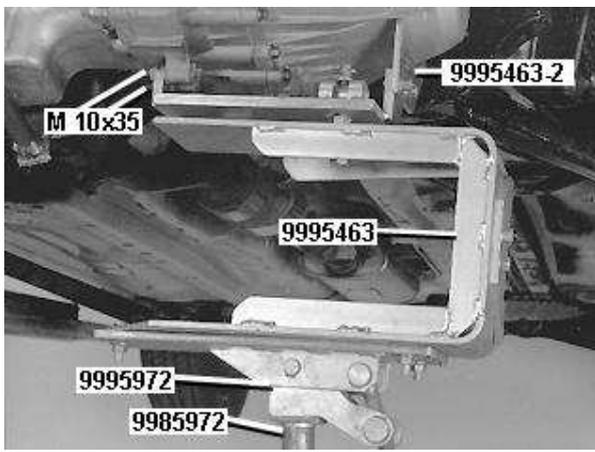
### Connect fixture

Install fixture **999 5972** and fixture **999 5463** on mobile jack **998 5972**.

Install transmission fixture on transmission. Use two screws M10x35.

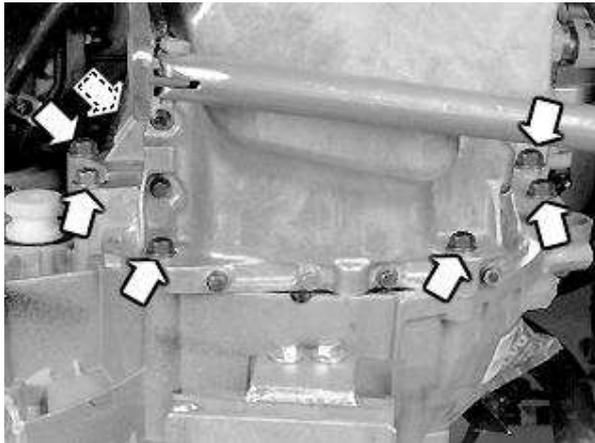
At the same time locate support plate 999 5463-2 on the fixture.

Install mobile jack lightly.



**Remove the remaining screws between engine and transmission (7 x)**

Remove the cover plate at right drive shaft side.  
Remove remaining bolts.



**Carefully remove the transmission from the engine.**

Ensure that the transmission moves straight out from the engine, no deviations in the clutch driven plate center may occur. Lower transmission as soon as the primary shaft is free of the clutch.

