

Removing



Note

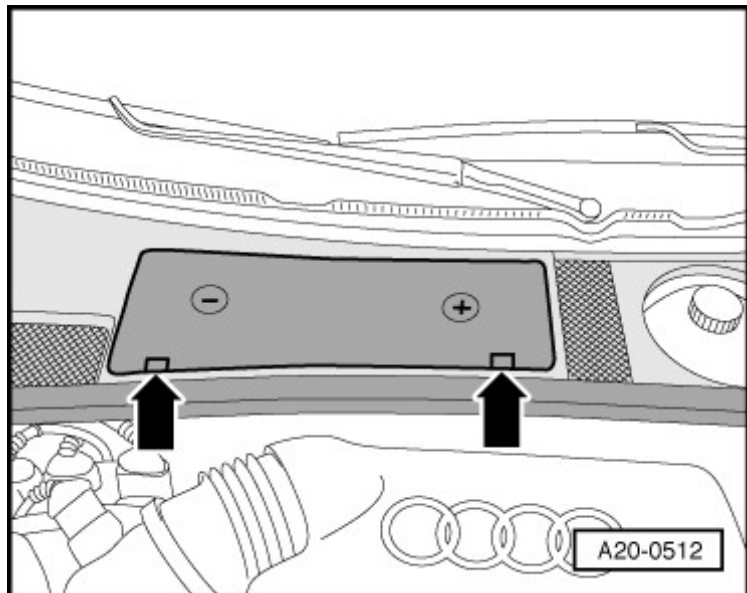
All cable ties which are released or cut open during removal must be fitted in the same position when installing.



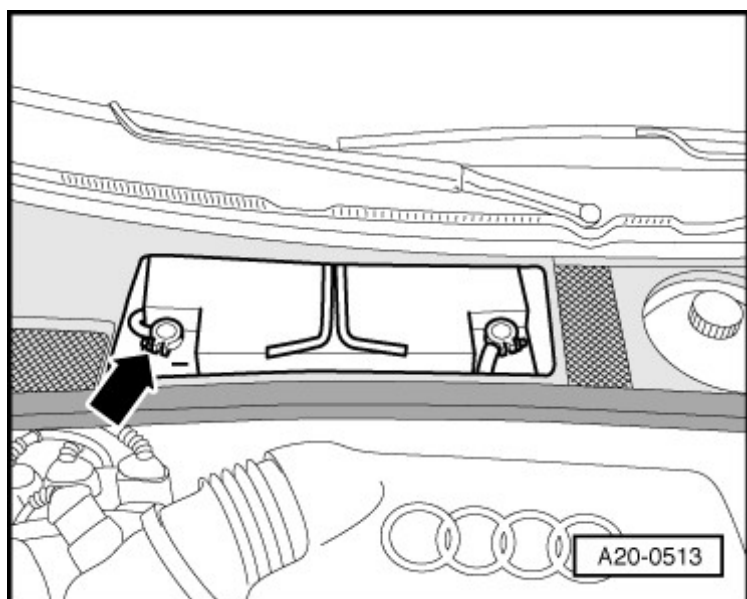
Caution

Vehicles with telematics: activate service mode of telematics control unit before disconnecting battery
 →Radio, telephone, navigation system; Rep. Gr.01.

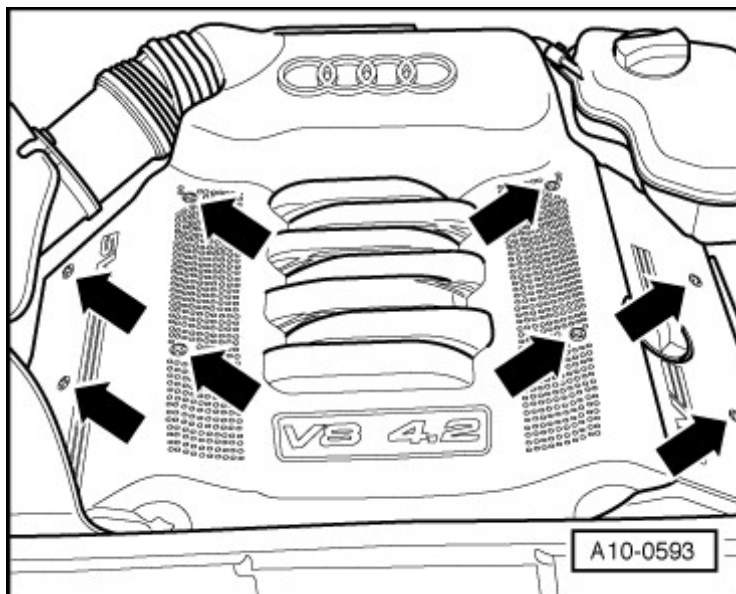
- Refer to coding on vehicles with encoded radio/radio navigation system (RNS); obtain coding if necessary.
- Shift selector lever into position "P".
- Remove cover above battery -arrows-.



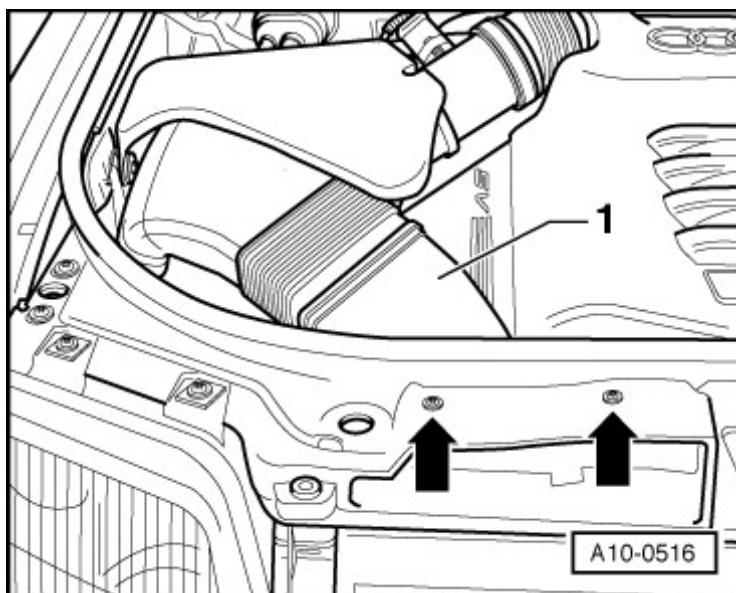
- Switch off ignition and remove ignition key.
- Disconnect earth wire -arrow- at battery.



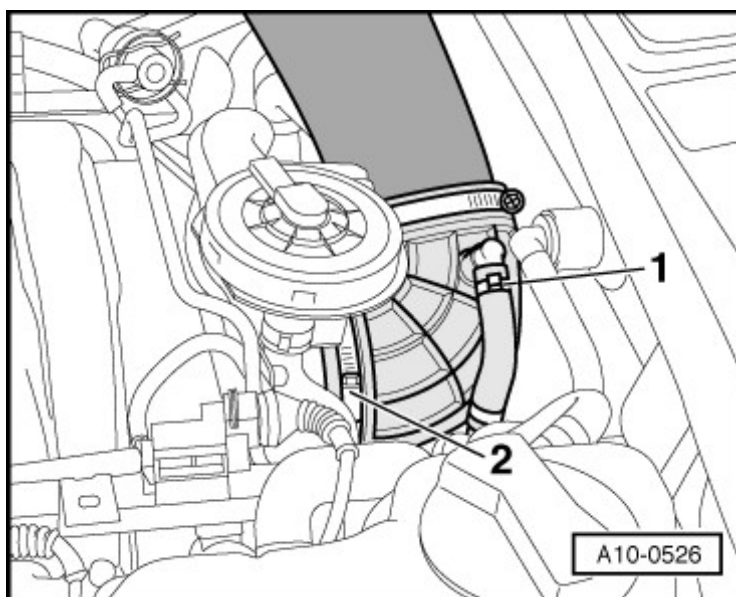
- Remove engine cover panel -arrows-.



- Remove intake hose -1- going to air cleaner -arrows-.

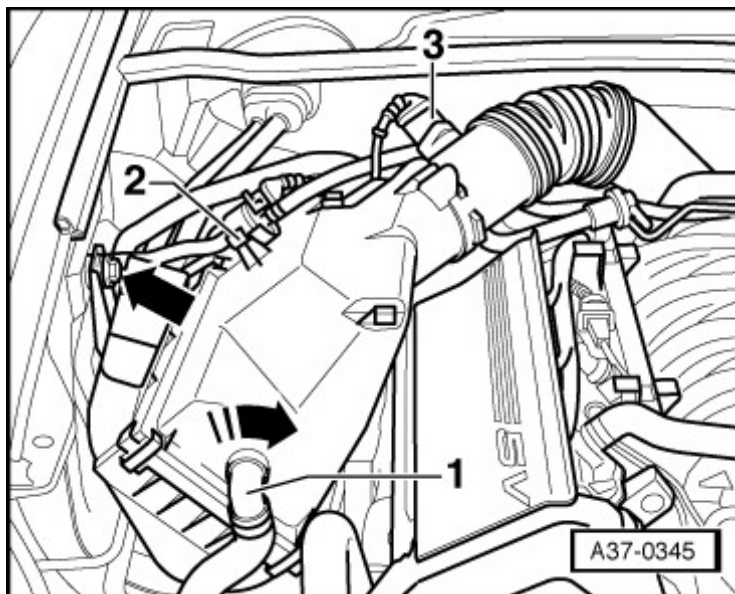


- Detach hose -1-.
- Detach intake hose -2- going to throttle valve unit.



- Remove hose -1- from air cleaner by turning it in direction of -arrow-.

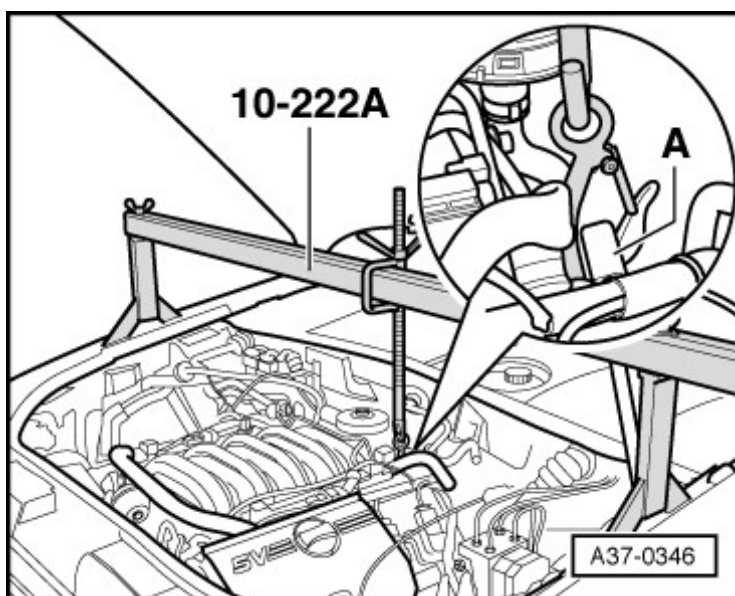
- Detach frequency valve holder -2- from air cleaner unit.
- Unplug connector from air mass meter -3-.
- Remove bolt -arrow- and remove air cleaner unit with air mass meter and intake hose.
- Disconnect Lambda probe connectors on right and left of throttle valve unit.
- Slacken securing bolts of coolant expansion tank and move expansion tank clear to one side.
- Unscrew top securing nuts on front exhaust pipes (left and right).
- Remove all engine/gearbox connecting bolts which are accessible from above.
- Set up support bracket -10-222 A- with rack -10-222 A/1- on wing mounting flanges.
- Attach the hook of the spindle in the eye -A- on the rear of the engine.



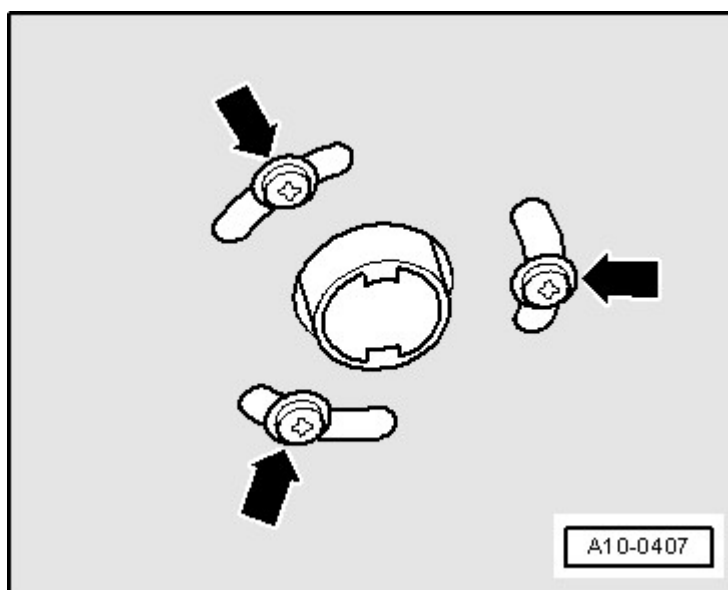
Note

Make sure that no connectors or hoses are damaged; remove if necessary.

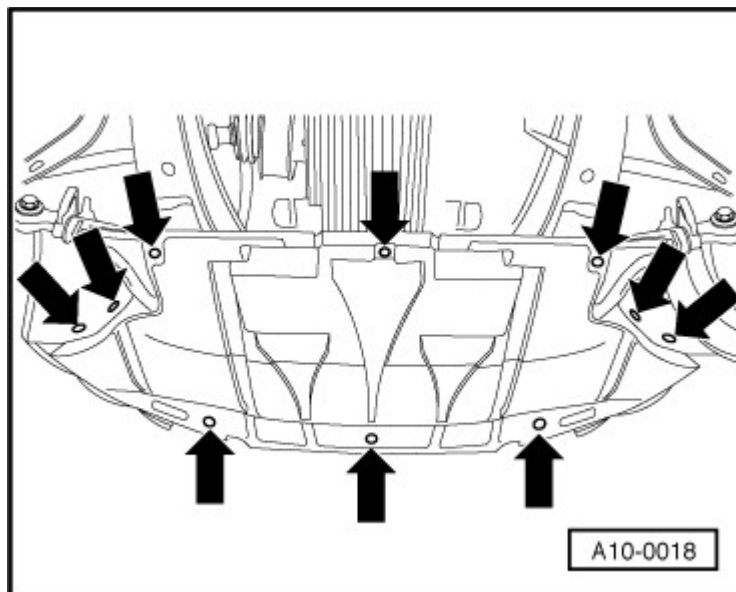
- Partly take up weight of engine/gearbox assembly with the spindles.



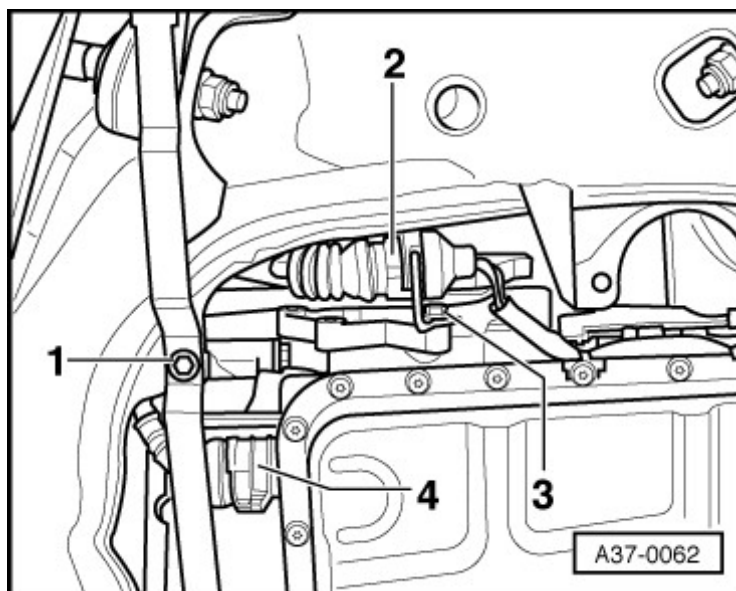
- Remove both front wheels.
- On vehicles fitted with auxiliary heater, remove screws -arrows- securing exhaust pipe of auxiliary/ additional heater to noise insulation.



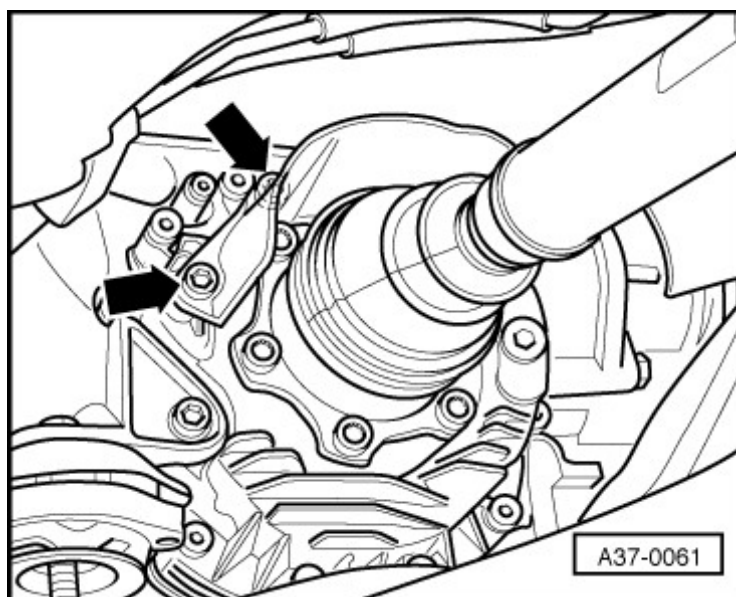
- Remove noise insulation -arrows-.



- Detach bracket -1- for noise insulation.
- Turn locking lever -4- and unplug connector for gearbox wiring harness.
- Unplug electrical connector -2- from multi-function switch -F125-.
- Unplug connector for multi-function switch and unbolt bracket for connector -3-.

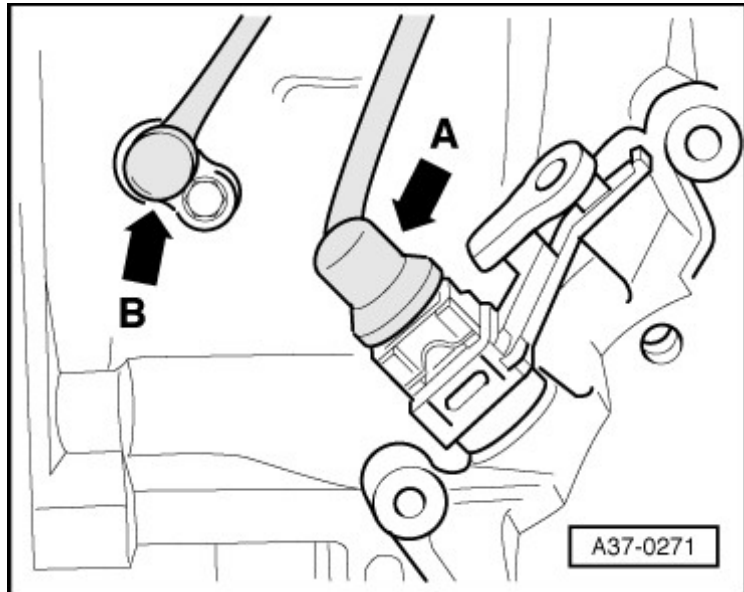


- Remove heat shields for drive shafts (left and right) -arrows-.
- Unbolt drive shafts (left and right) from gearbox flanges.

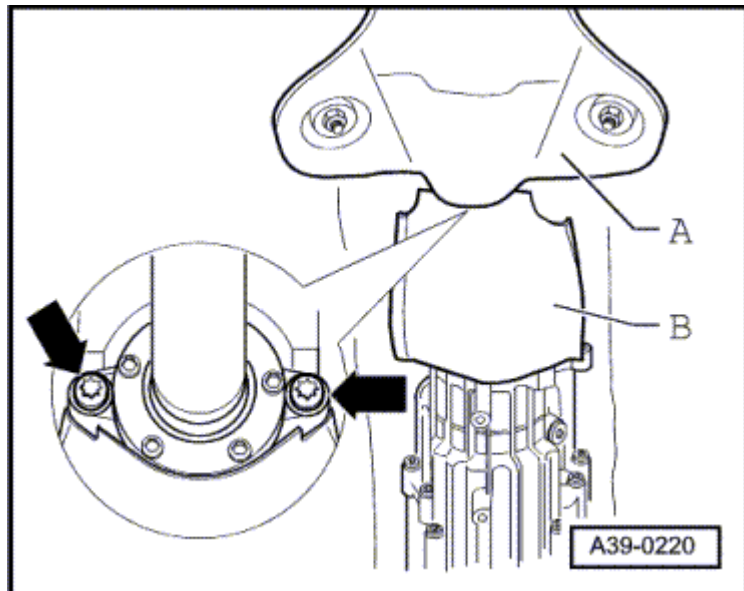


- Unscrew engine speed sender -G28- (- arrow B-) at front left of gearbox.

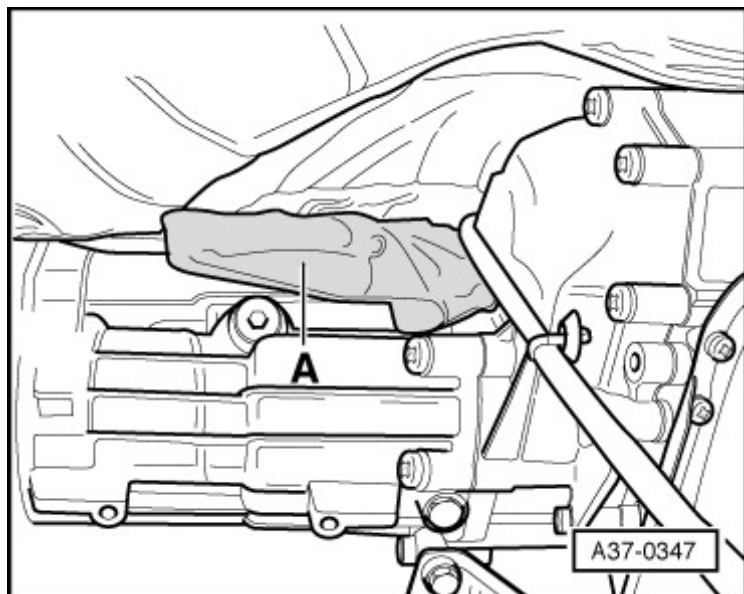
- Unplug electrical connector (-arrow A-) from speedometer sender -G22- on gearbox.
- Remove heat shield for selector lever cable.
- At the exhaust manifold, remove the lower securing nuts from the front exhaust pipes.
- Remove Lambda probes at left and right behind catalytic converters and mark installation position of each probe (left/right).
- Loosen double clamp and remove front exhaust pipes with catalytic converter and upper Lambda probes →**Engine, mechanics; Rep. Gr.26.**



- Remove heat shield -A- above propshaft.
- Remove heat shield -B- for propshaft from cover for Torsen differential -arrows-.



- Unplug electrical connector at gearbox output speed sender -G195- and remove sender together with heat insulation -A-.
- Unbolt propshaft from gearbox. Suspend or support propshaft.
- Remove starter →**Electrical system; Rep. Gr.27.**



- Unscrew 3 Torx socket head bolts from torque converter through opening for

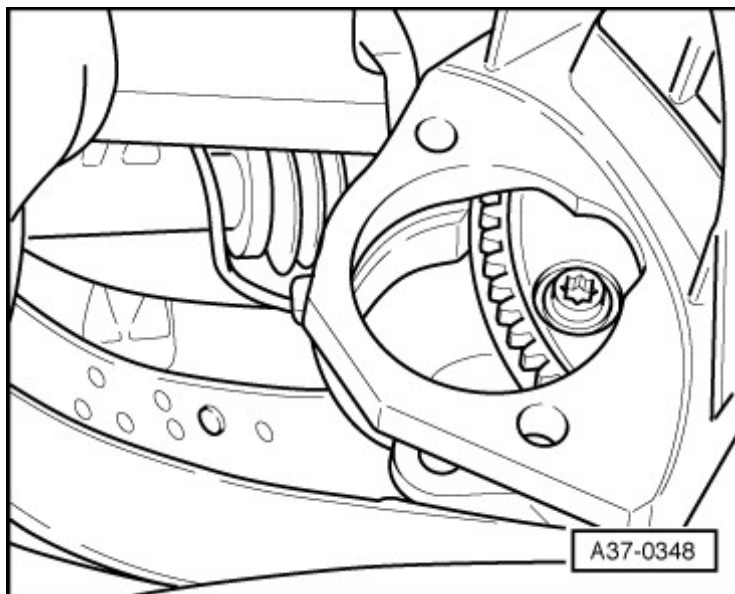
starter (rotate crankshaft $\frac{1}{3}$ turn for each bolt).



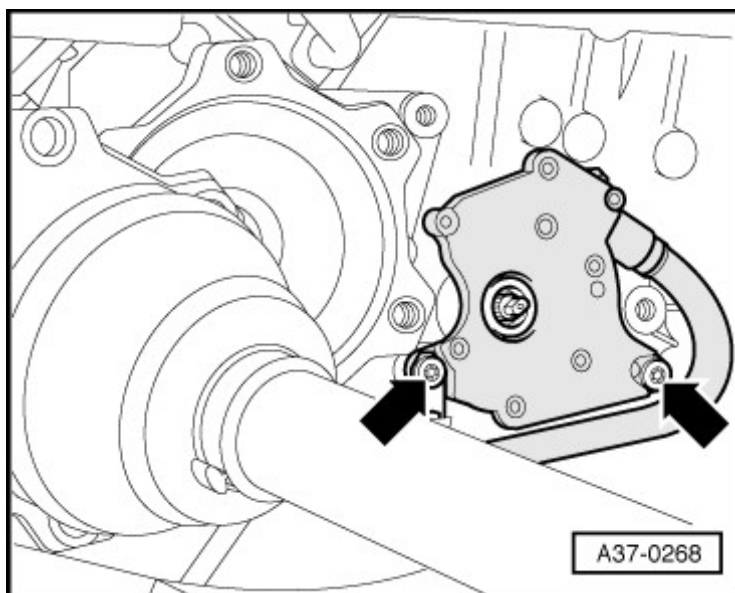
Note

To loosen the torque converter bolts, counterhold at central bolt of vibration damper.

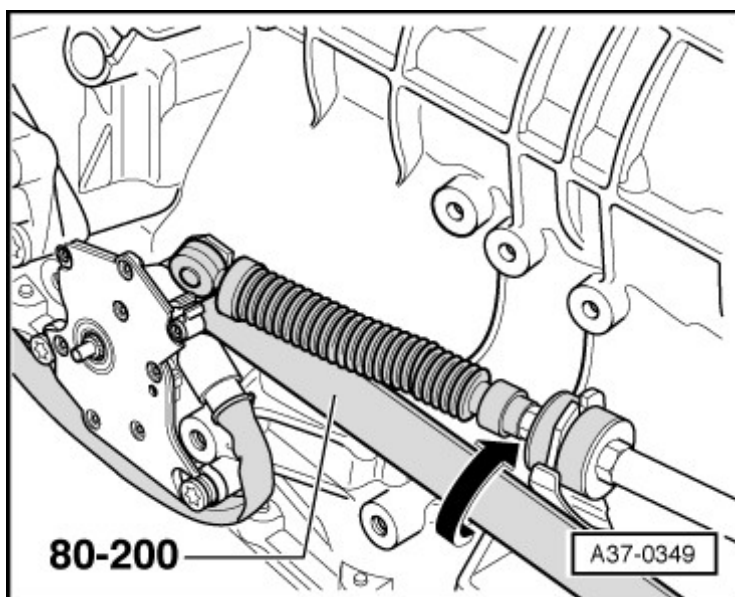
- Shift selector lever to position “P”.



- Remove multi-function switch -F125- from gearbox -arrows-.



- Prise selector lever cable off selector shaft lever -arrow- using removal lever -80-200-.



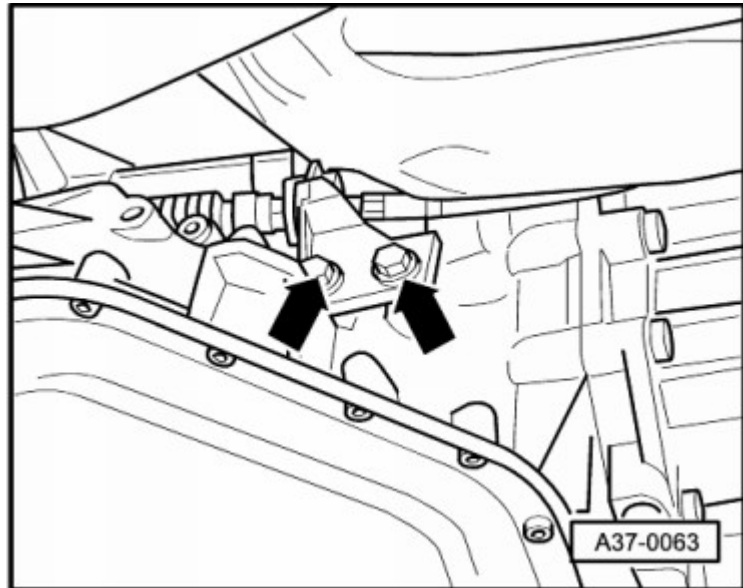
- Mark position of support bracket securing selector lever cable to

gearbox housing (position must be the same when installing). Unbolt support bracket -arrows-.

- Release retaining clip for ATF pipes at engine/gearbox securing bolt.
- Place used oil collection and extraction unit -V.A.G 1782- below gearbox.



Note



Observe rules for cleanliness when working on automatic gearbox → *Chapter*.

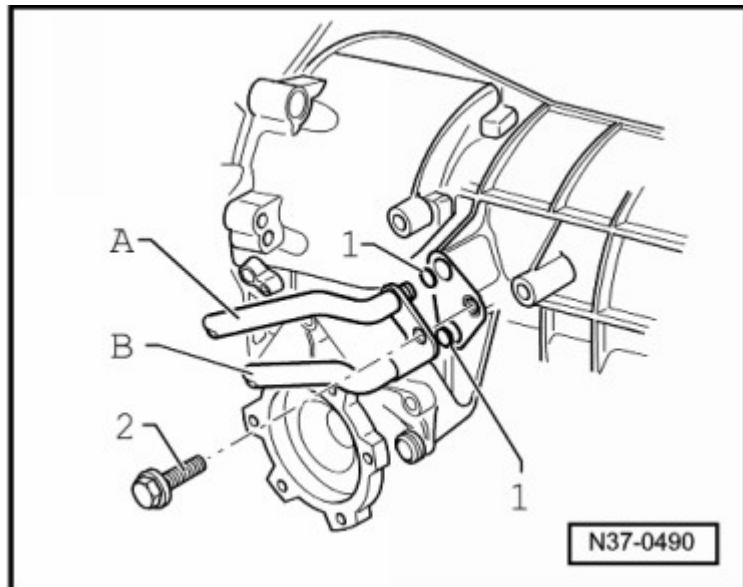
- Remove bolt -2-.
- Pull out ATF pipes -A- and -B- and move clear to one side.



Note

-Item 1- can be disregarded.

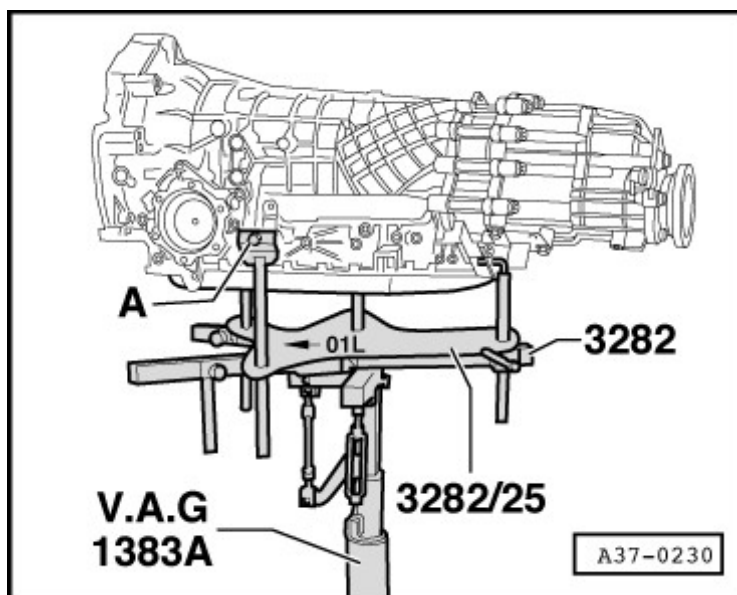
- Seal pipes and gearbox connections with clean sealing plugs to prevent ATF from escaping.
- Set up gearbox support -3282- on engine and gearbox jack -1383 A-.
- Place adjustment plate -VAS 3282/25- on gearbox support -3282- (adjustment plate only fits in one position).
- Align arms of gearbox support according to holes in adjustment plate.
- Attach support elements as illustrated on adjustment plate.
- Place engine and gearbox jack -1383 A - with gearbox support -3282- underneath gearbox and support gearbox.



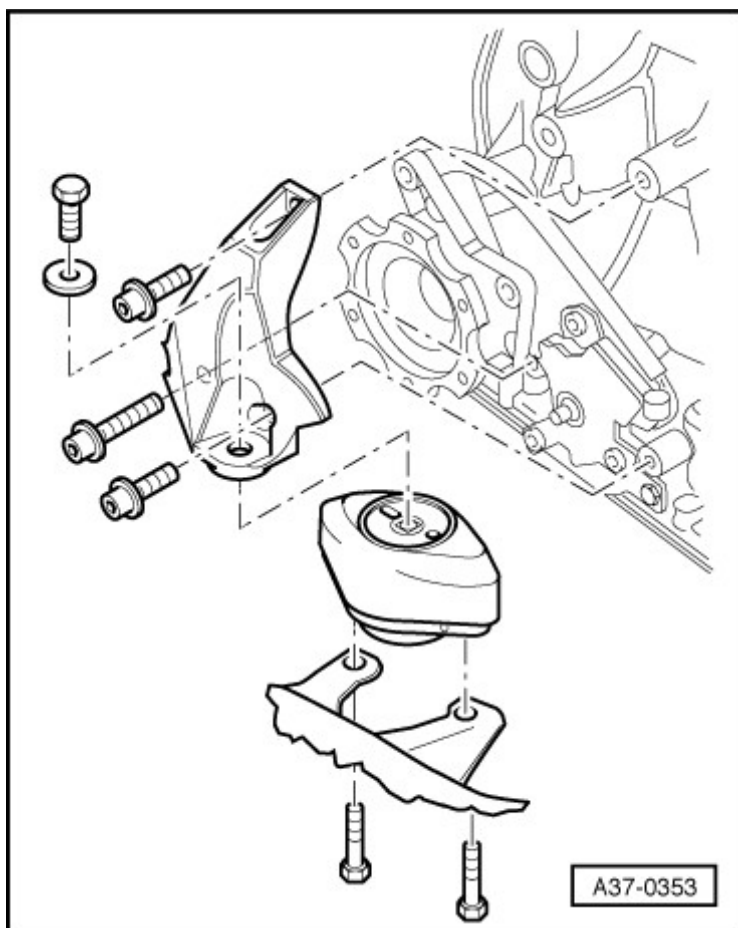
Note

The arrow symbol on the adjustment plate points in the direction of travel.

- Align adjustment plate parallel to gearbox and secure left support to gearbox with bolt -A-.



- Remove gearbox support (left-side) together with gearbox mounting.

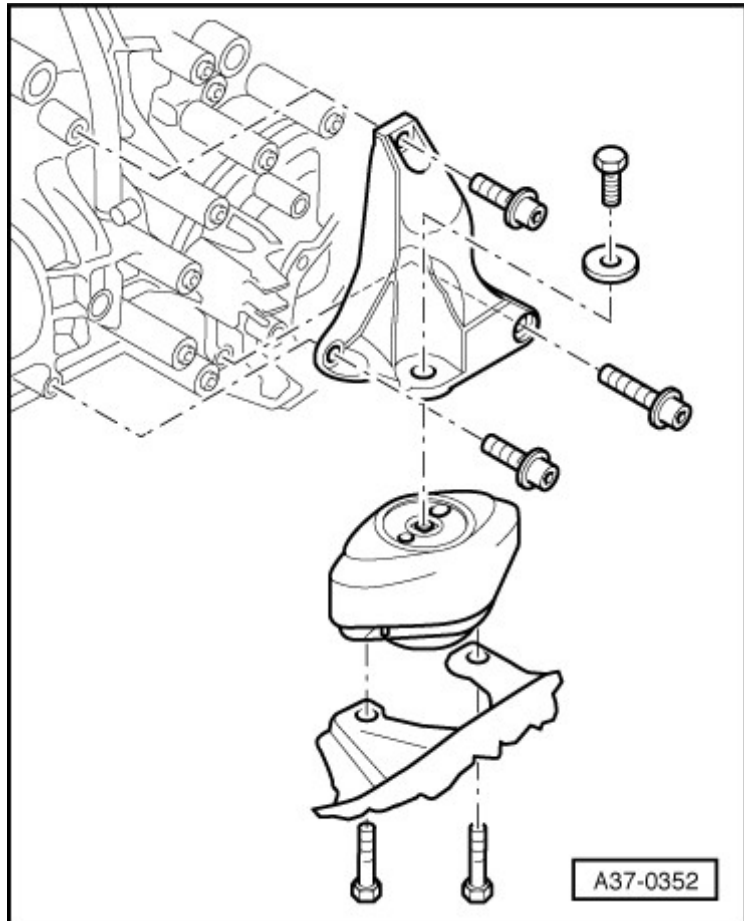


- Remove gearbox support (right-side) together with gearbox mounting.
- Lower subframe at front and rear
→Running gear, front-wheel drive and four-wheel drive; Rep. Gr.40.
- Detach the two engine mountings from the subframe.
- If necessary, lift engine slightly further via spindle.

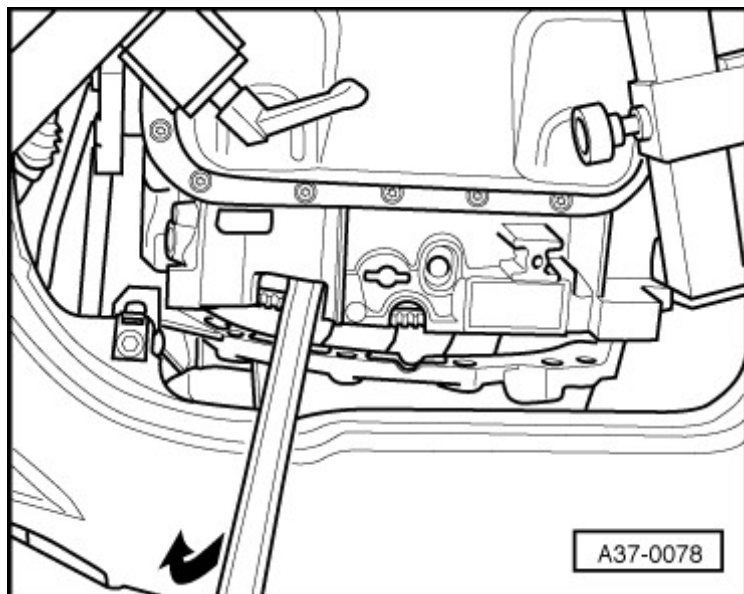
**Note**

Ensure that the throttle valve unit does not damage the insulation mat on the bulkhead.

- Unscrew all remaining securing bolts between engine and gearbox.
- If necessary, lower engine slightly via spindle.
- Lower rear end of gearbox by adjusting gearbox support 3282 as necessary.



- Use suitable lever to remove torque converter from drive plate on engine.
- Press gearbox off engine.



- Lower rear end of gearbox by adjusting gearbox support -3282- accordingly.
- Guide the gearbox out diagonally downwards/to the rear.

**Note**

- ◆ If necessary, reduce tension at spindle of support bracket -10-222 A-



Ensure that there is sufficient room between bulkhead and engine.

- Secure torque converter in gearbox to stop it falling out (using e.g. wire).

