

## Removing and installing starter

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#### Warning:

Disconnect battery earth strap before working on electrical system.

#### Notes:

- ♦ On vehicles with coded radio, obtain anti-theft code before disconnecting battery.
- ♦ When battery is reconnected, reactivate electrical equipment (radio, clock, electric windows, engine management) as described in Owner's Manual.

### Vehicles with V6 petrol engine

#### Removal:

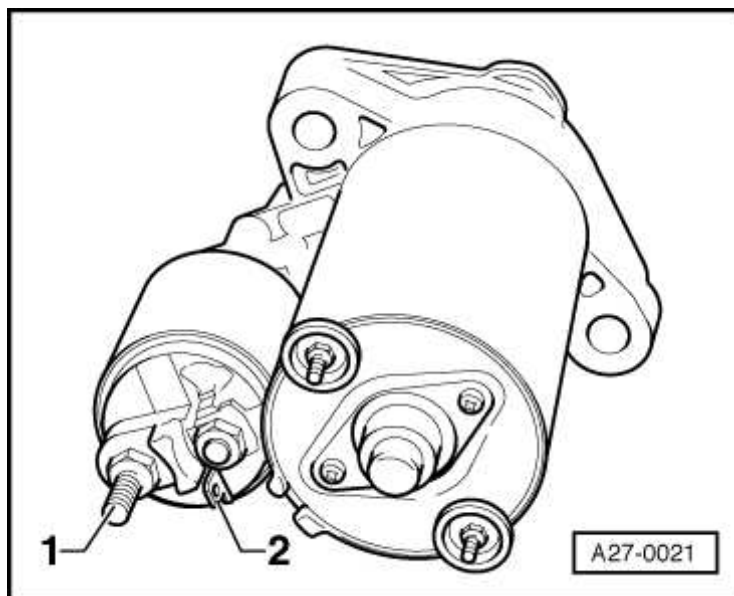
#### Note:

Alternator must be removed before removing starter =>Page [27-29](#)

- – → Disconnect cable from terminal B+ -1-. Tightening torque: 16 Nm.
- – Unplug connector for terminal 50 - 2-.
- – Unfasten lower bolt of starter (16 mm A/F) from engine side. Tightening torque: 65 Nm
- – Unfasten upper bolt of starter (16 mm A/F) from gearbox end. Tightening torque: 65 Nm
- – Remove starter from below.

#### Note:

Lower bolt is used to screw on earth cable to engine/gearbox.



#### Installing:

- – Installation is performed in reverse sequence to removal.

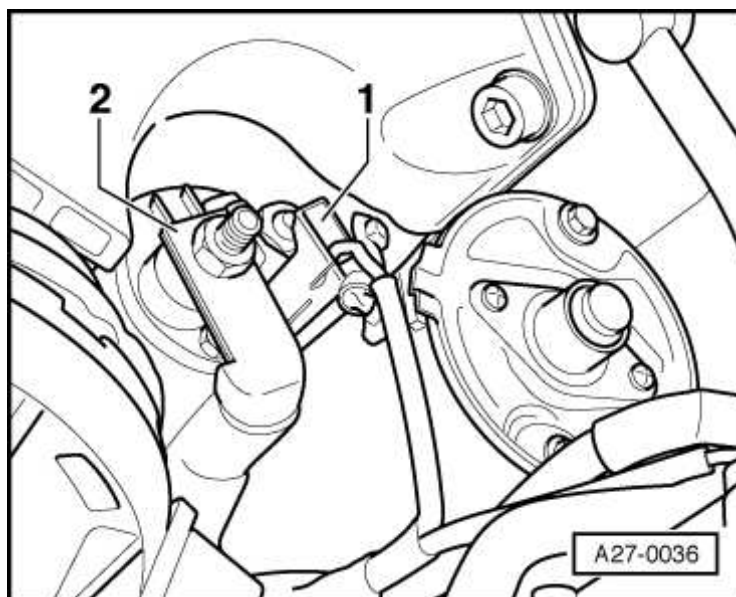
### Vehicles with V6 diesel engine

#### Removal:

#### Note:

Alternator must be removed before removing starter =>Page [27-34](#)

- – → Disconnect cable from terminal B+ -2-. Tightening torque: 16 Nm.
- – Unplug connector for terminal 50 - 1-.
- – Unfasten upper bolt of starter (16 mm A/F) from gearbox end. Tightening torque: 65 Nm



- – → Unfasten lower bolt -2- of starter (16 mm A/F) with nut (16 mm A/F). Tightening torque: 65 Nm
- – Remove starter from below.

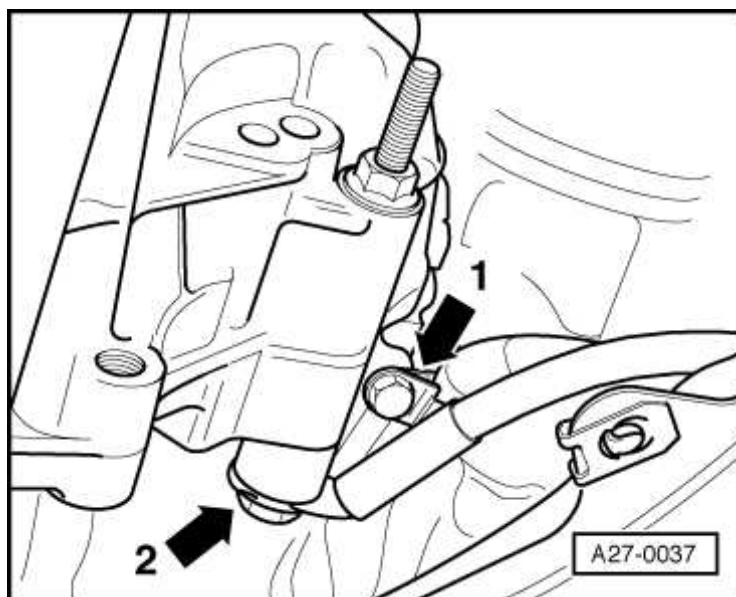
Note:

Lower bolt is used to screw on earth cable to engine/gearbox.

Installing:

- – Installation is performed in reverse sequence to removal.

Vehicles with V8 petrol engine (3.7l and 4.2l)

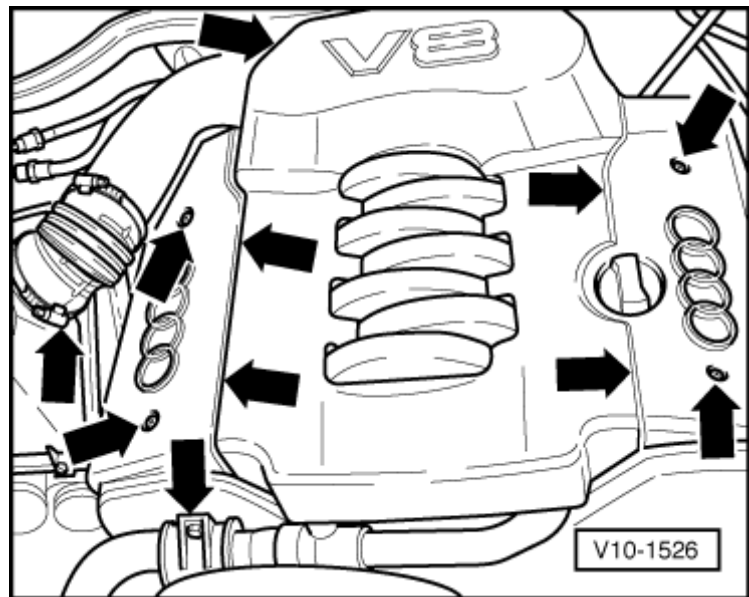


Removal:

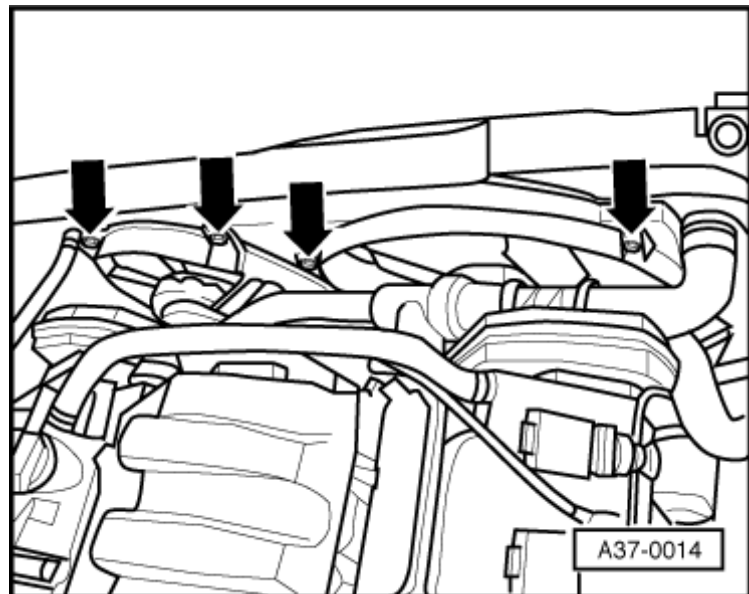
Note:

Alternator must be removed before removing starter =>Page [27-38](#)

- – → Completely remove engine cover.
- – Completely remove air intake pipe between air cleaner and throttle valve unit.
- – Remove air intake ducts between air cleaner housing and lock carrier.



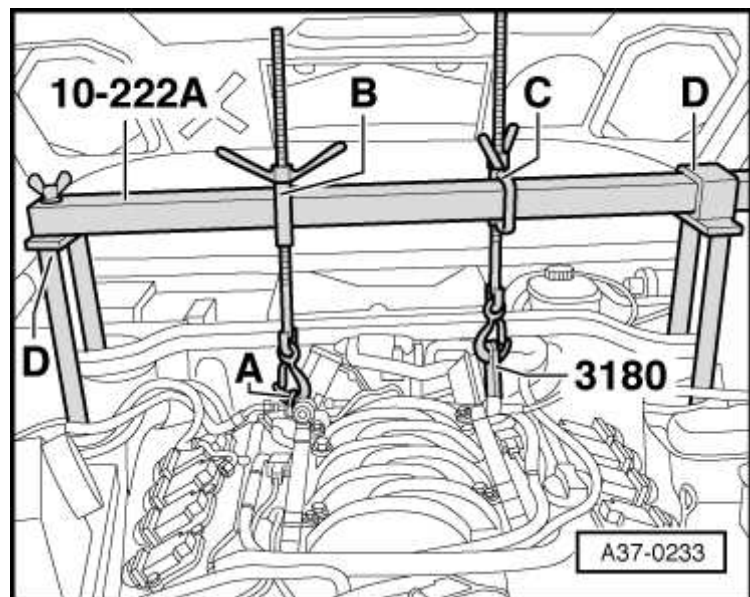
- – → Unfasten bolts -arrows- at radiator cowl and electric fan. Electric fan can be placed to one side without being disconnected.
- – Detach covers over suspension strut support and air cleaner housing.



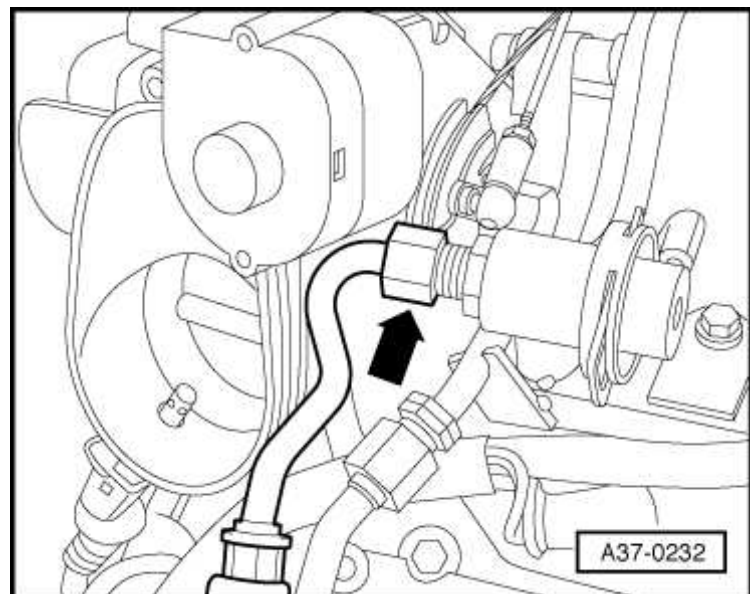
- – → Place support bar 10-222A with adapter for support bar 10-222A/4 - arrow D- onto bolts of suspension strut support.

#### Notes:

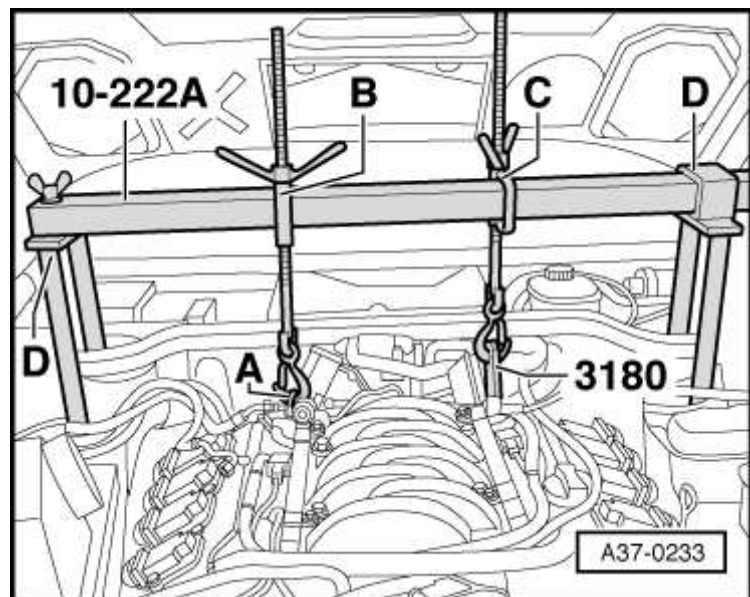
- ♦ The threaded spindle -B- must face front and threaded spindle -C- rear.
- ♦ Do not use supports 10-222 A/1



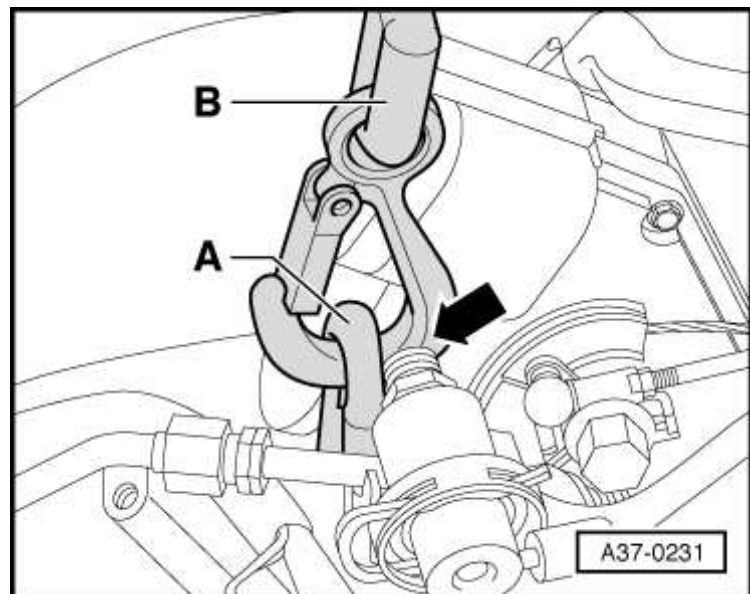
- – → Unscrew fuel pipe from pressure regulator -arrow-.



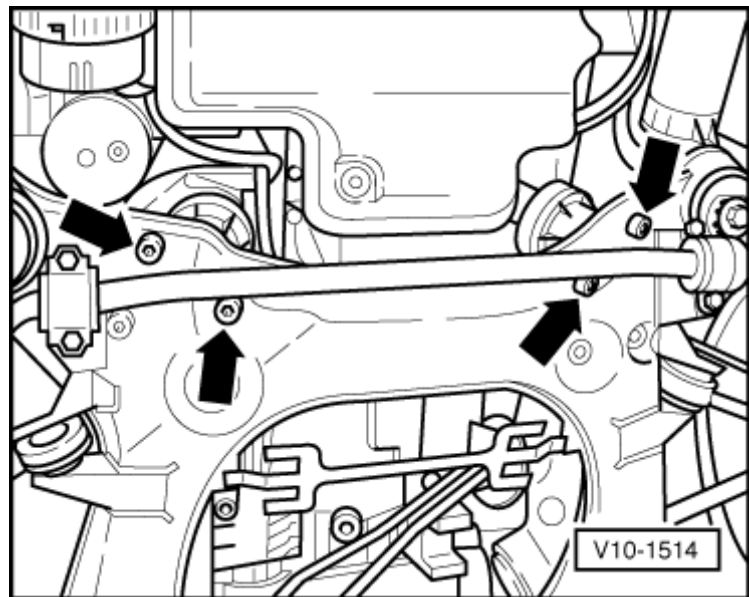
- – → Insert support bar 3180 from gearbox end into engine locating eye and screw it tight.
- – Insert additional hook -A- (10-222A/2) in locating eye at pressure regulator.
- – Pre-tension engine slightly using the two spindles -B- and -C-.



- – → When raising or lowering engine, ensure that neither hook-B- nor special hook-A- is in contact with pressure controller -arrow-.



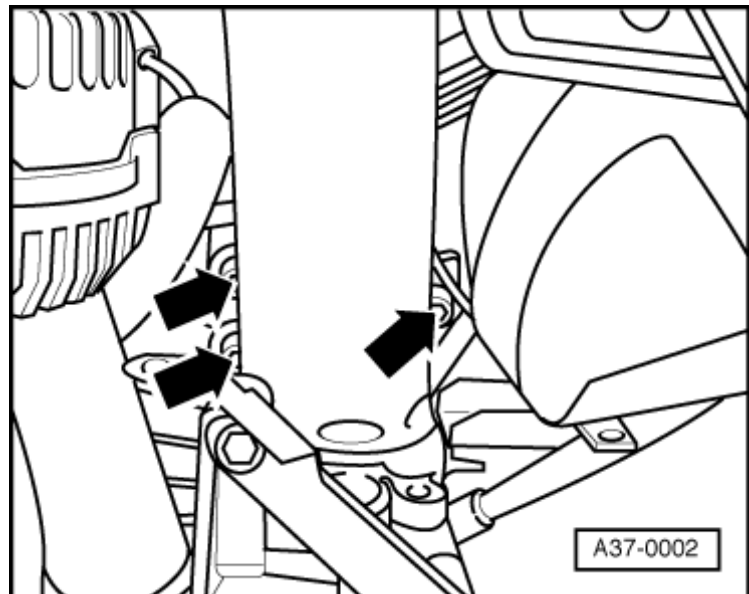
- – → Screw out lower bolts -arrows- at engine mountings.



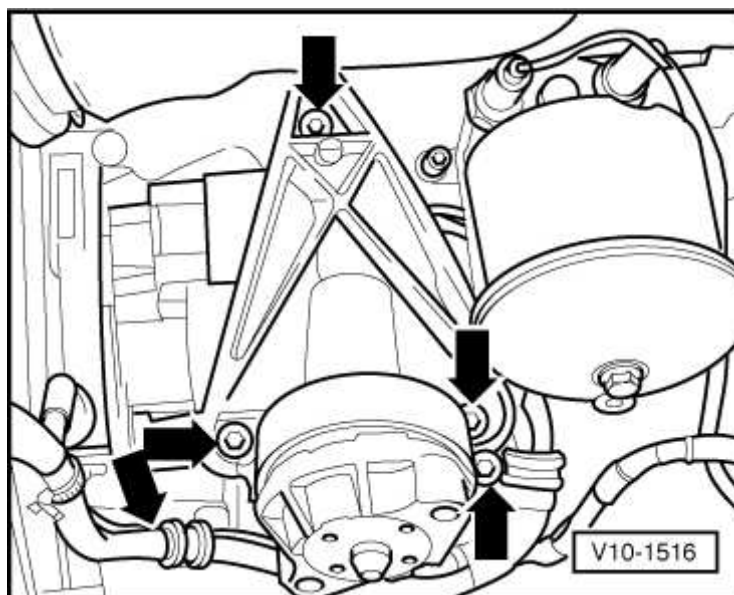
- – → Screw out bolts -arrows- at torque arm, front right.
- – Use spindles to lift engine until engine mounting comes out of subframe.

Note:

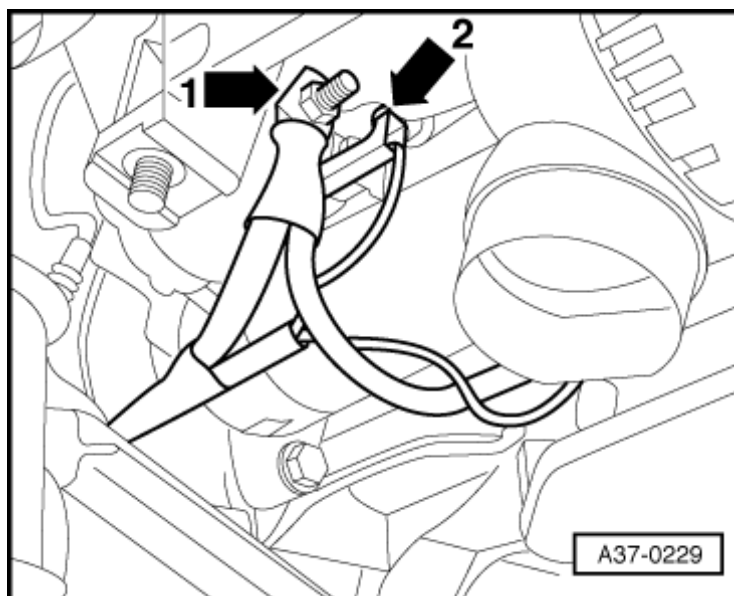
Ensure that throttle valve unit does not damage soundproofing mat at bulkhead.



- – → Unscrew engine support bracket on right and cable clamps -arrow-. Position engine support bracket on subframe.



- – → Disconnect cable from terminal B+ -1-. Tightening torque: 16 Nm.
- – Unplug connector for terminal 50 -2-.



- – Unscrew lower bolt (16 mm A/F) of starter -1- from engine end.  
Tightening torque: 65 Nm
- – Unfasten upper bolt (16 mm A/F) of starter -1- from gearbox end.  
Tightening torque: 65 Nm
- – → Slacken socket head bolts -2- (5 mm).
- – Remove starter from below.

#### Installing:

- – Installation is performed in reverse sequence to removal.

