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Your Vehicle: 2010 Audi Q7 Quattro (4LB) V6-3.0L DSL Turbo (CATA)



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Generator, Air Cooled

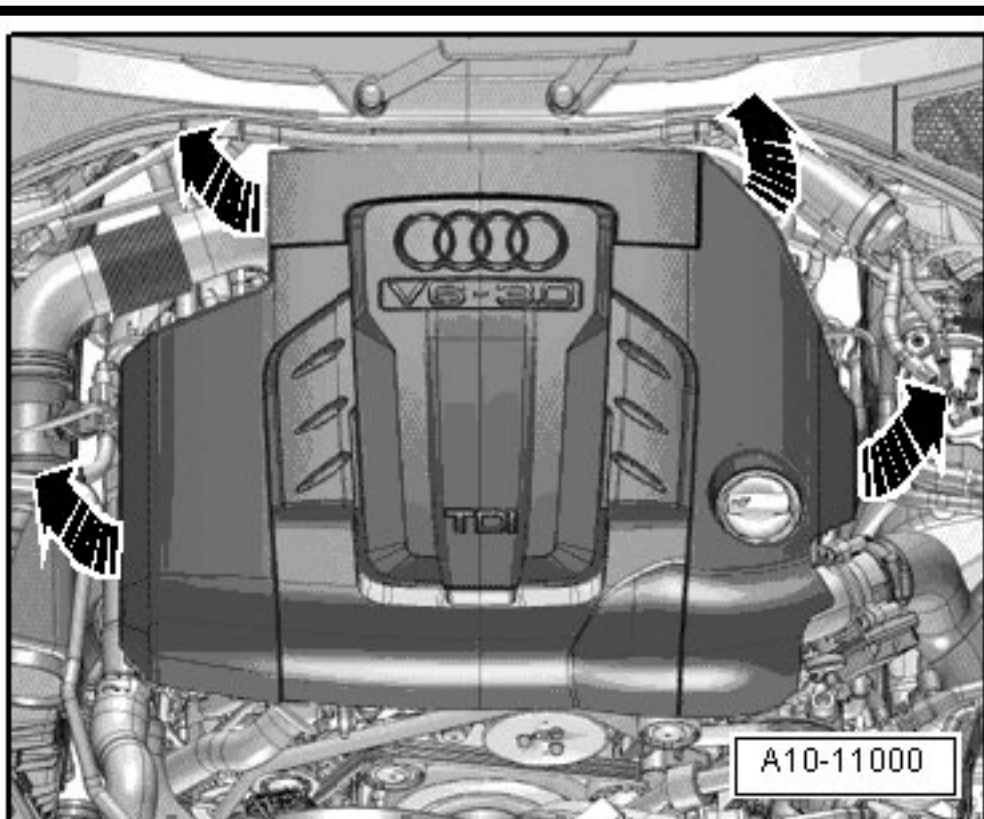
Generator, Air Cooled

Special tools, testers and auxiliary items required

- ⌘ Tory TB 60 Socket (T40087)

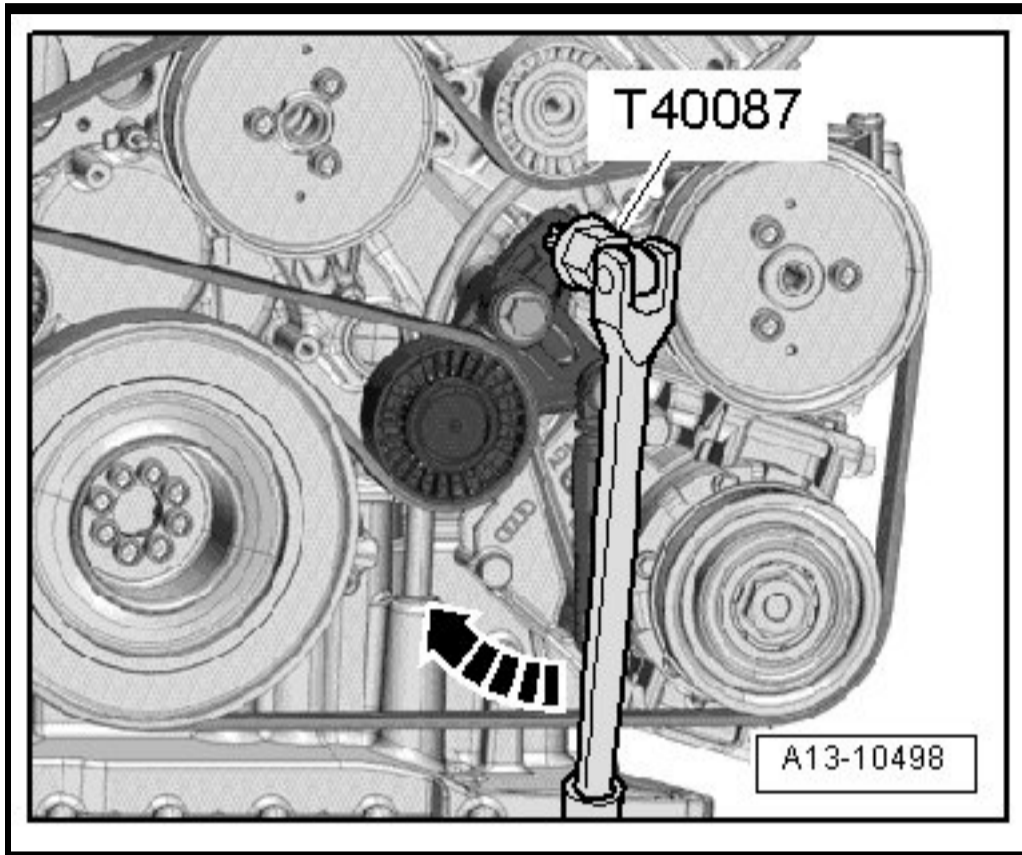
Observe notes on contact corrosion => [[Contact Corrosion](#)] [See: Battery\Service Precautions>Contact Corrosion.](#)

Removing



⌘ When installing, reinstall all cable ties that were loosened or cut during removal in the same locations.

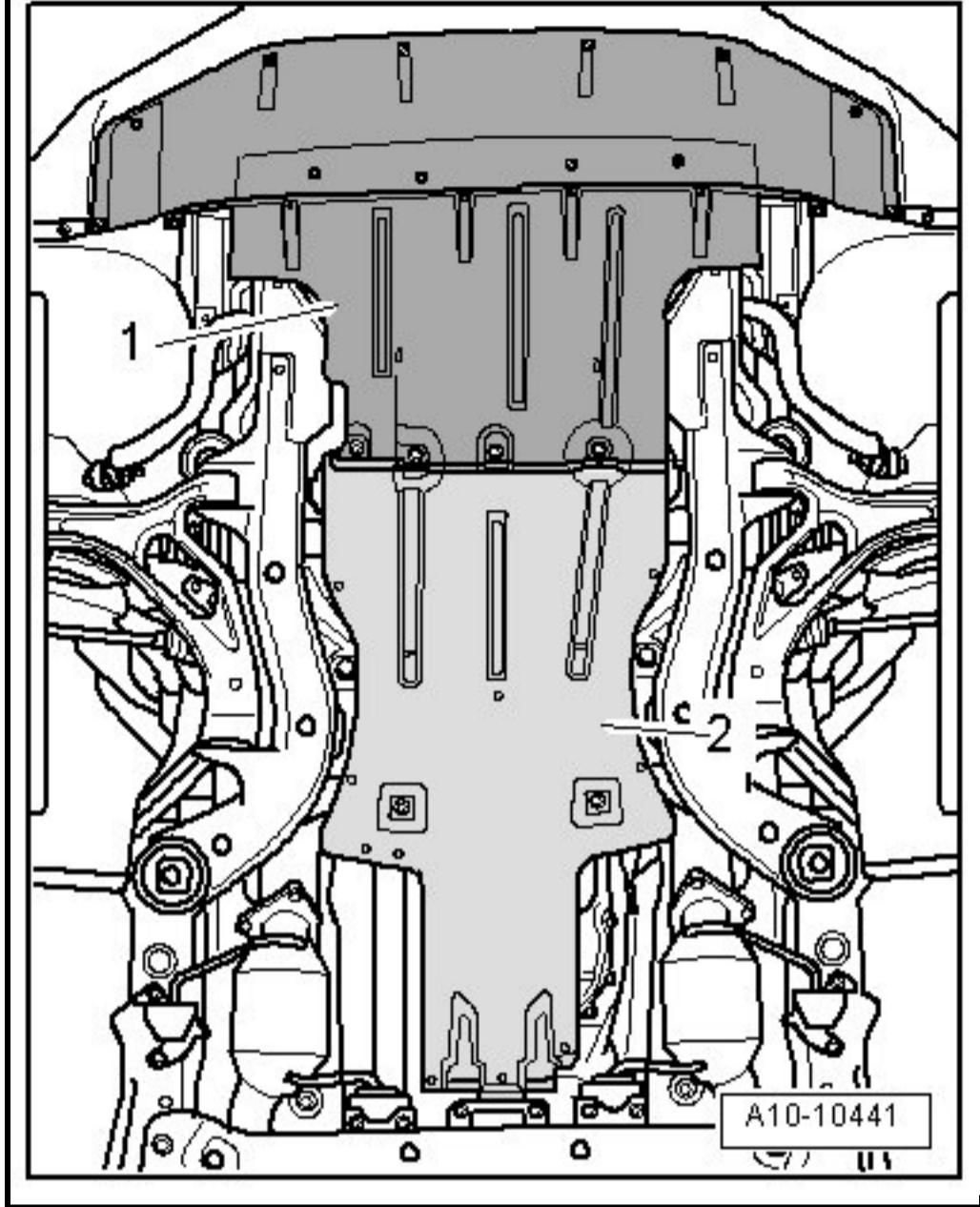
- With ignition switched off, disconnect [battery](#) ground (GND) wire. Refer to => [Battery, Disconnecting and Connecting] [See: Service and Repair](#).
- Carefully remove engine cover successively from the four locking bolts - **arrows** -.



Risk of destroying if the running direction of a used ribbed belt is reversed.

⌘ **Before removing ribbed belt, marking running direction with chalk or a felt-tip pen for reinstallation.**

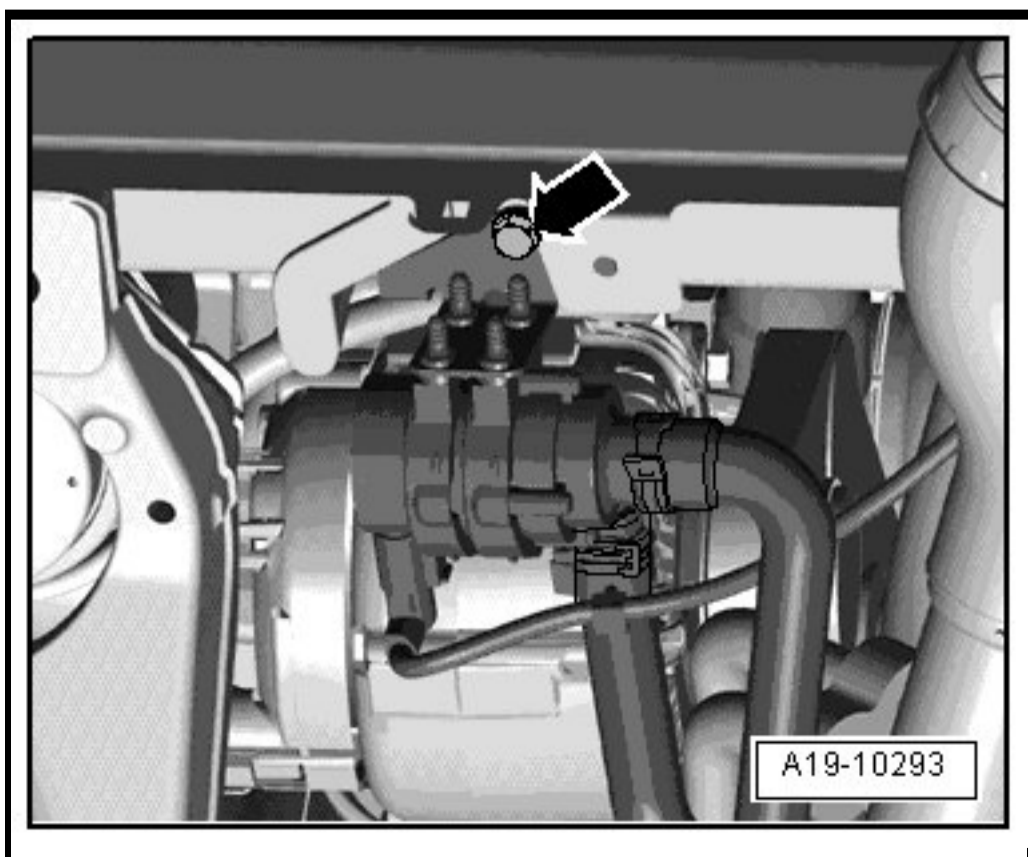
- To release the tension the ribbed belt, move the tensioner in - **direction of arrow** - using the (T40087).
- Remove ribbed belt from tensioning roller.
- Remove right front wheel.



Zoom

Sized for Print

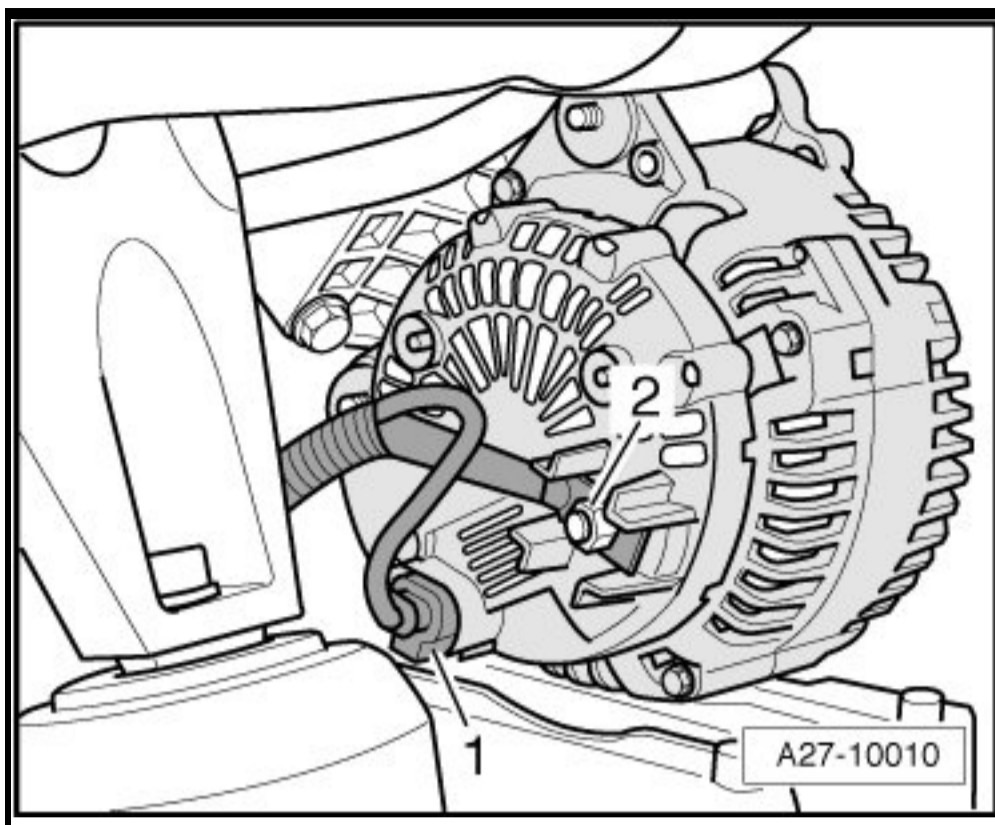
- Remove screws and remove the noise insulation in the front - **1** - and in the rear - **2** -.
- Remove stabilizer bar.
- Remove the screw - **arrow** - and move the fuel cooler pump (V166) with coolant hoses and electrical connector still connected to the side.



Zoom

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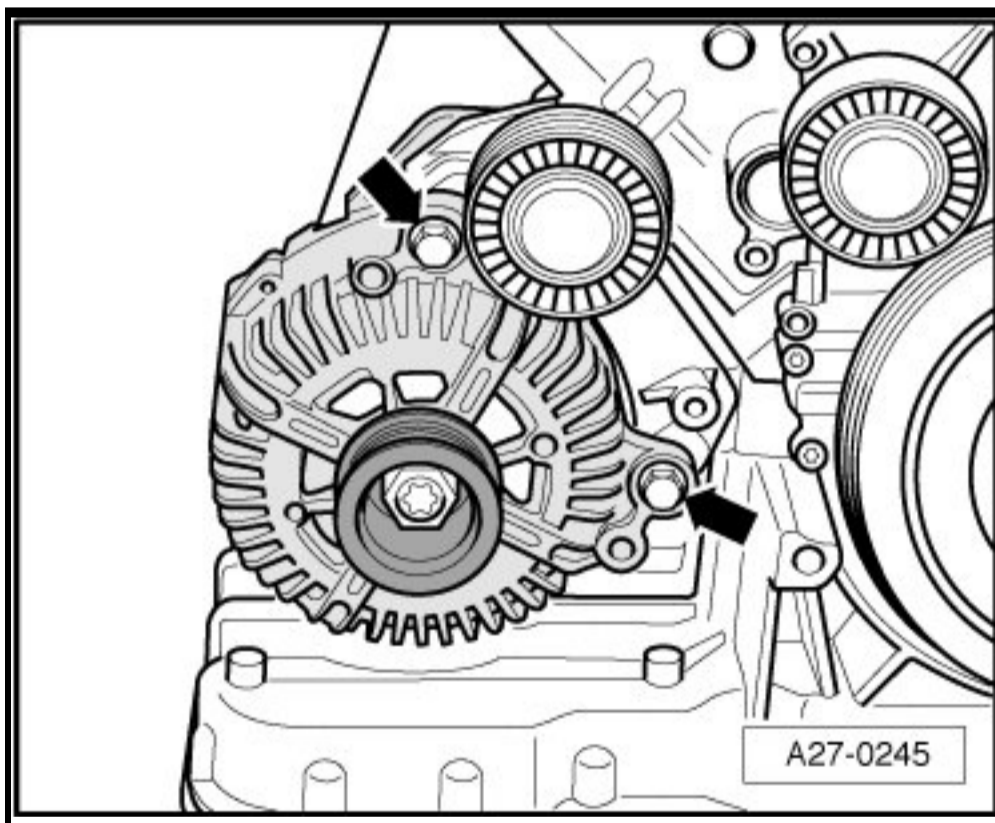
- Detach [wiring harnesses](#) - 1 - and - 2 - from generator.



Zoom

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- Free up electrical [wiring harness](#).
- Remove the bolts - **arrows** - and remove generator.



Zoom

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- ⌘ If alternator sticks in holder, install screw again down as far as the last two turns.
- ⌘ Carefully strike on bolt heads using flat side of hammer - doing this loosens sleeves of generator mount.

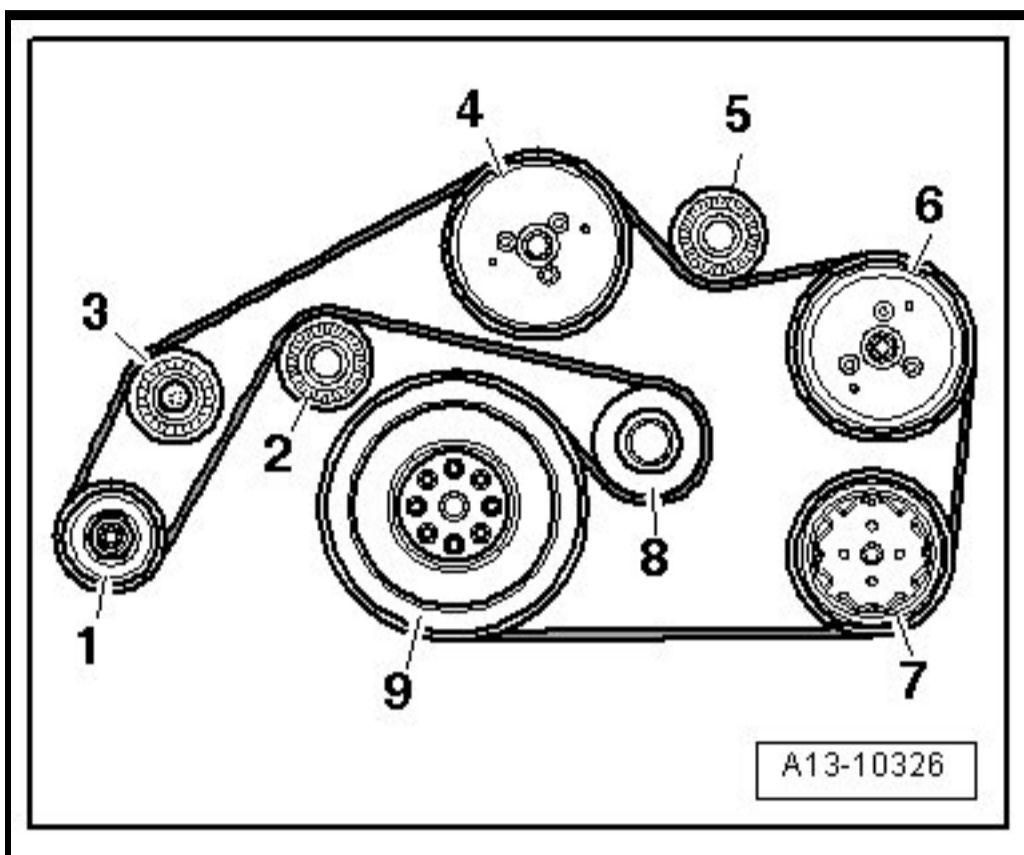
Installing

Install in reverse order of removal, observing the following:

- ⌘ Replace self-locking nuts.
- Slightly drive back sleeves for retaining bolts in order for easier installation of generator.

⌘ Tight sleeves for generator mount must be made smooth-running, otherwise clamping force of sleeve is too little despite correct torque.

- Install stabilizer bar.
- Fit poly V-belt over pulleys.



Zoom

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1. Generator
2. Idler pulley
3. Idler pulley
4. Coolant pump
5. Idler pulley
6. Vane pump
7. A/C compressor
8. Tensioner for ribbed belt
9. Vibration damper

⌘ When installing ribbed belt, be sure that it is seated correctly on belt pulleys.

- Connect [battery](#). Refer to => [See: Service and Repair](#).
- Start the engine and verify that the belt is running properly.

Tightening Specifications

Component	Nm
Generator to engine	22
Terminal 30/B+ to generator	16
After-run coolant pump (V51) bracket to longitudinal member	22

Zoom

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