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



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Generator, Water-Cooled

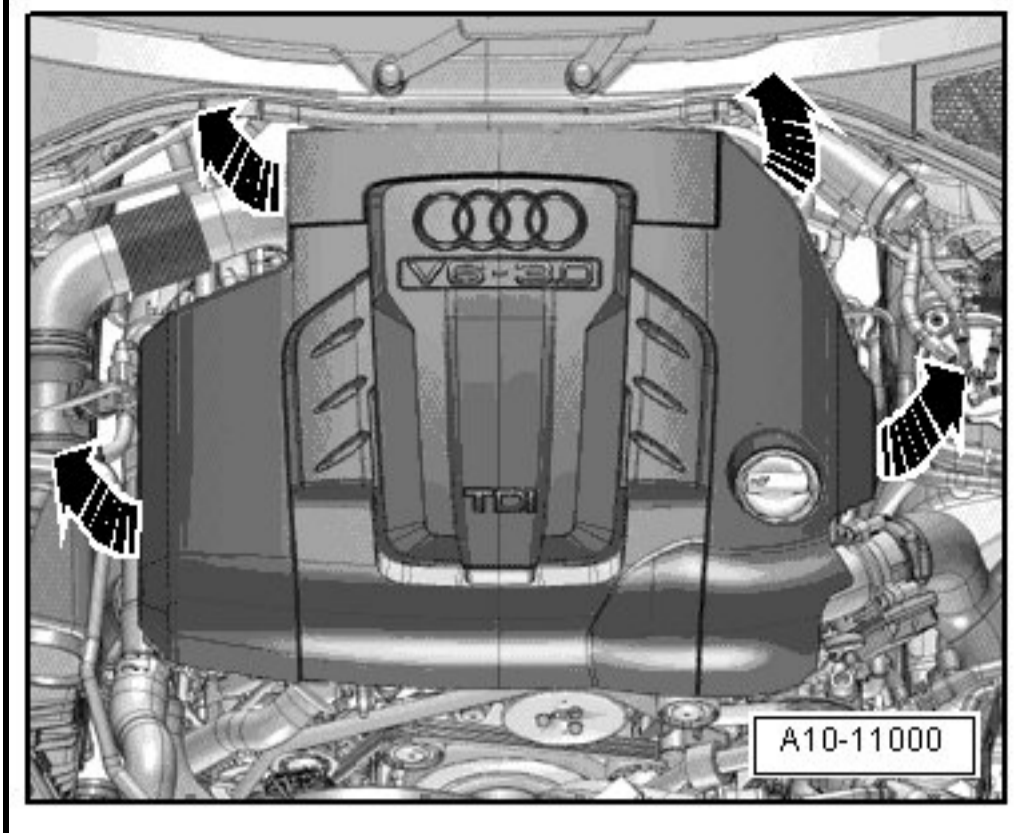
Generator, Water-Cooled

Special tools, testers and auxiliary items required

- ⌘ Hose Clamps Up To 25 mm (3094)
- ⌘ Drip Tray for VAS 6100 (VAS 6208)
- ⌘ Tory TB 60 Socket (T40087)

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

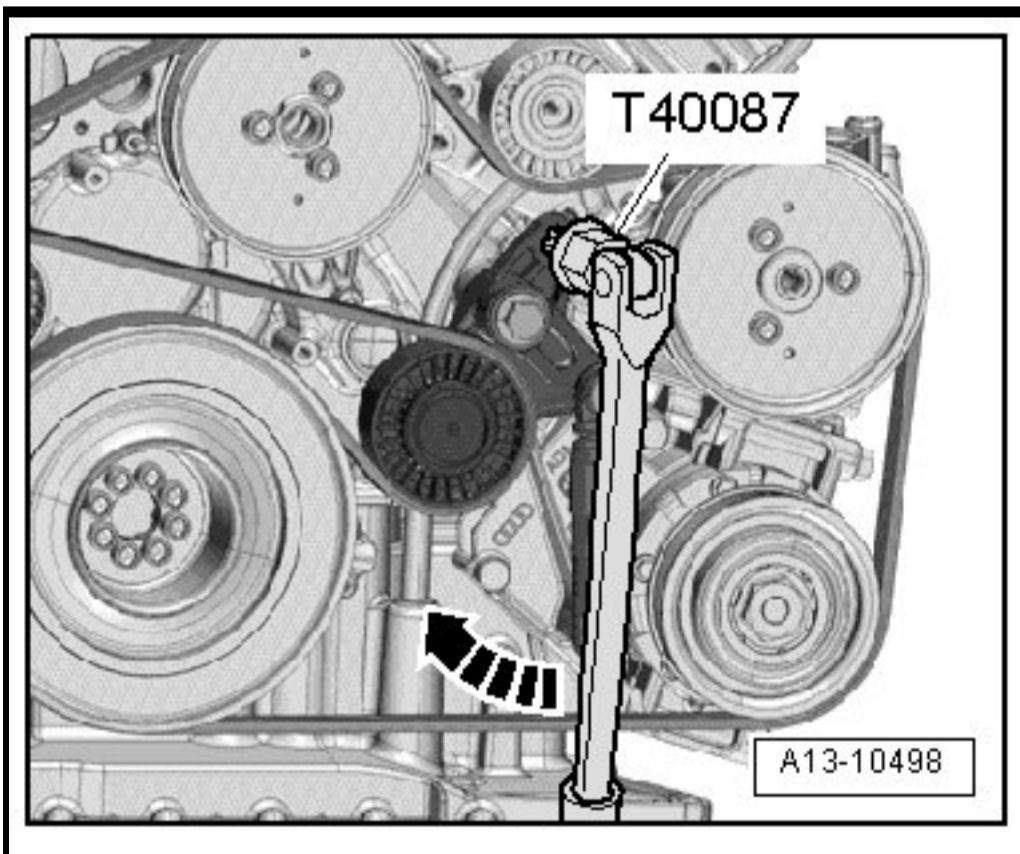
Removing



Zoom

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- 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** -.



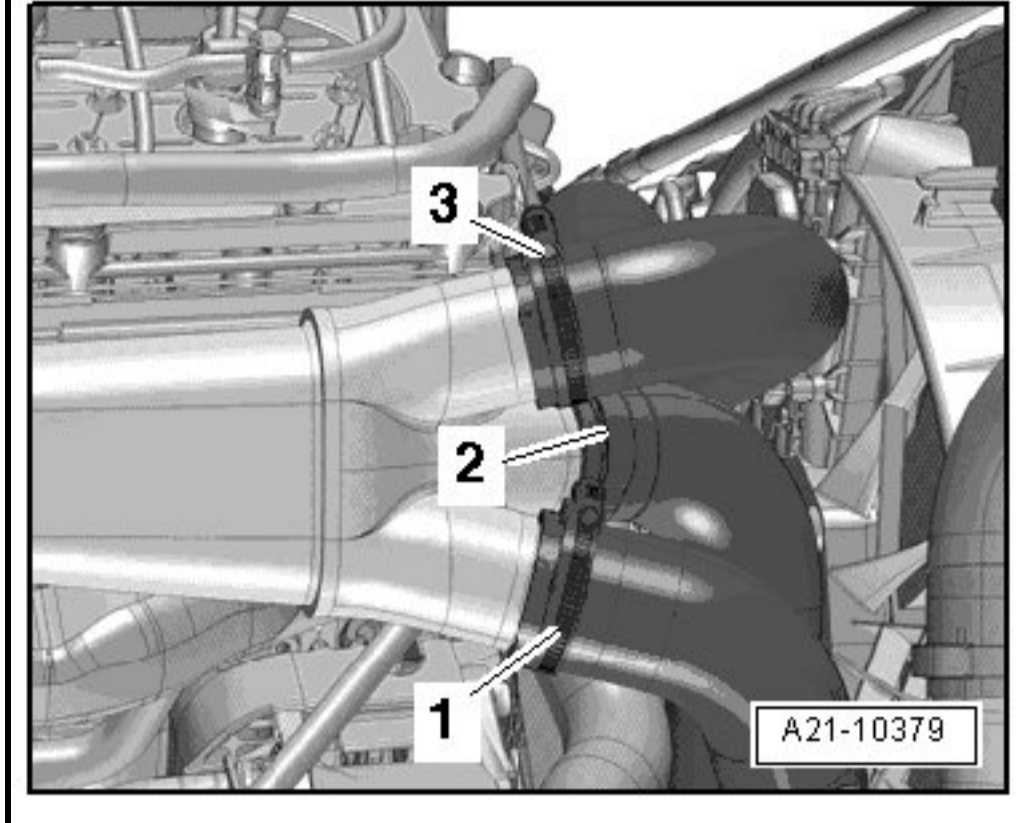
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Risk of destroying if the running direction of a used ribbed belt is reversed.

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

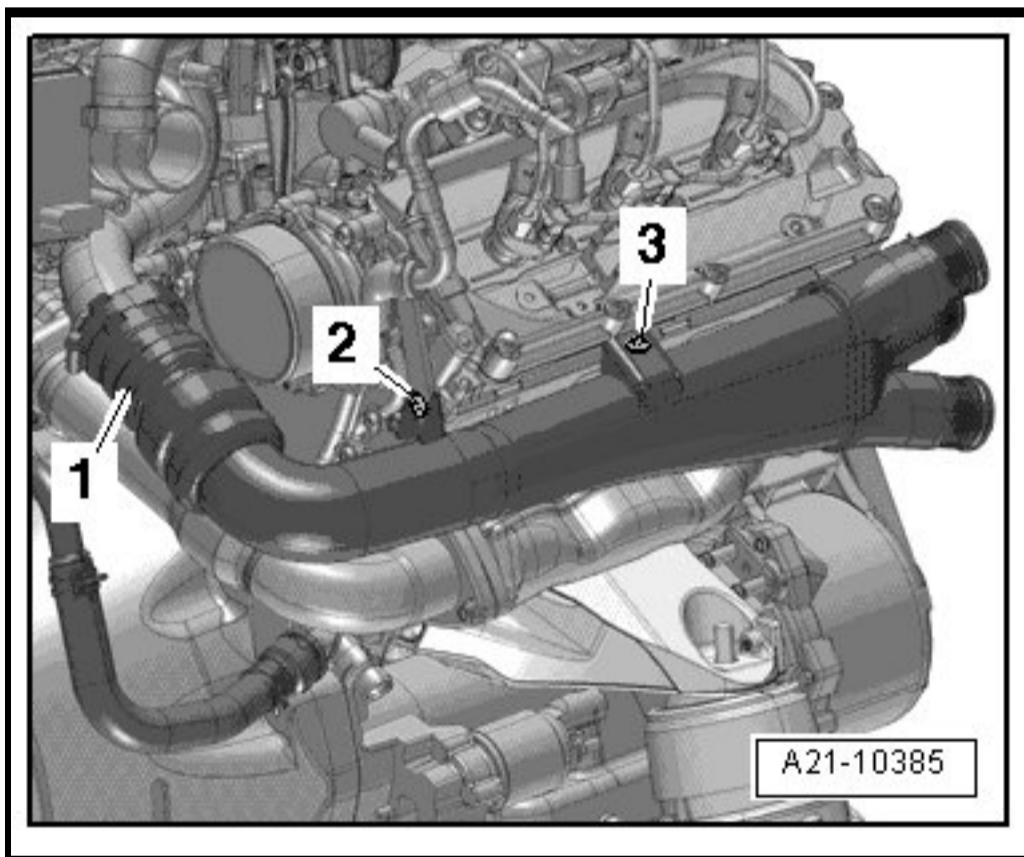
- To release the tension the ribbed belt, move the tensioner in - **direction of arrow** - using the (T40087).
- Remove ribbed belt from tensioning roller.
- Remove the air filter housing.
- Loosen the clamps - **1, 2 and 3** - and remove the air guide hoses.



Zoom

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- Remove screws - 2 - and - 3 -.

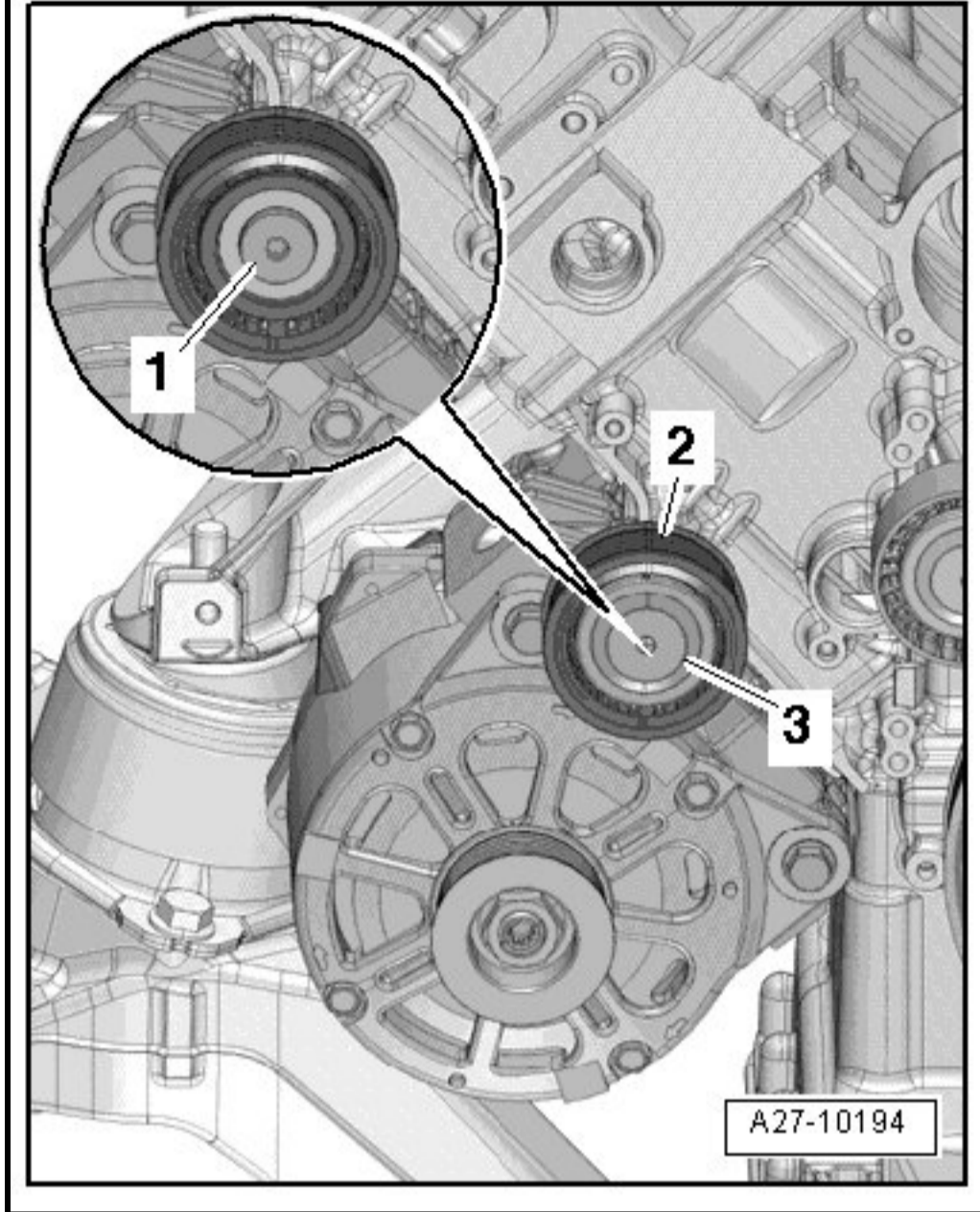


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α Ignore - **item 1** -.

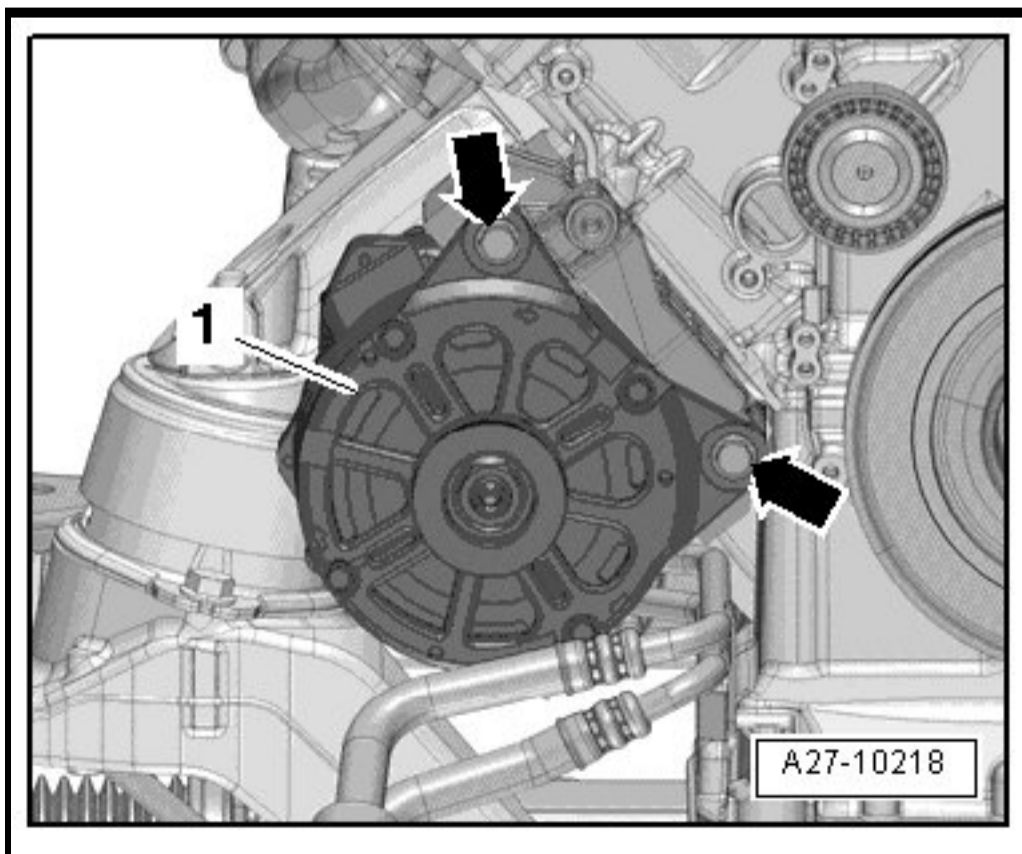
- Pry the cover - 3 - off the idler roller.



Zoom

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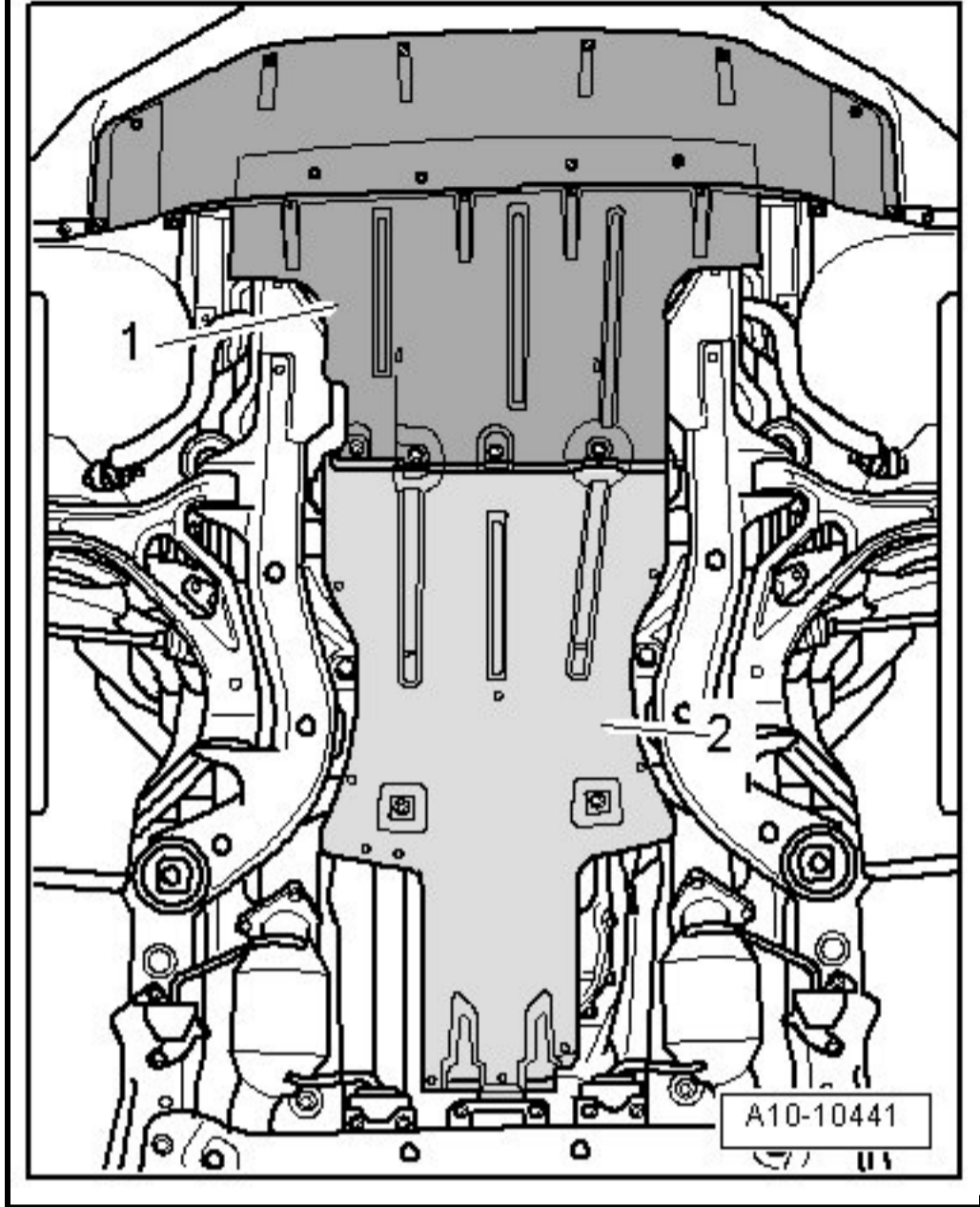
- Remove the bolt - **1** - and remove the idler roller - **2** -.
- Remove the bolts - **arrows** - from the generator - **1** -.



Zoom

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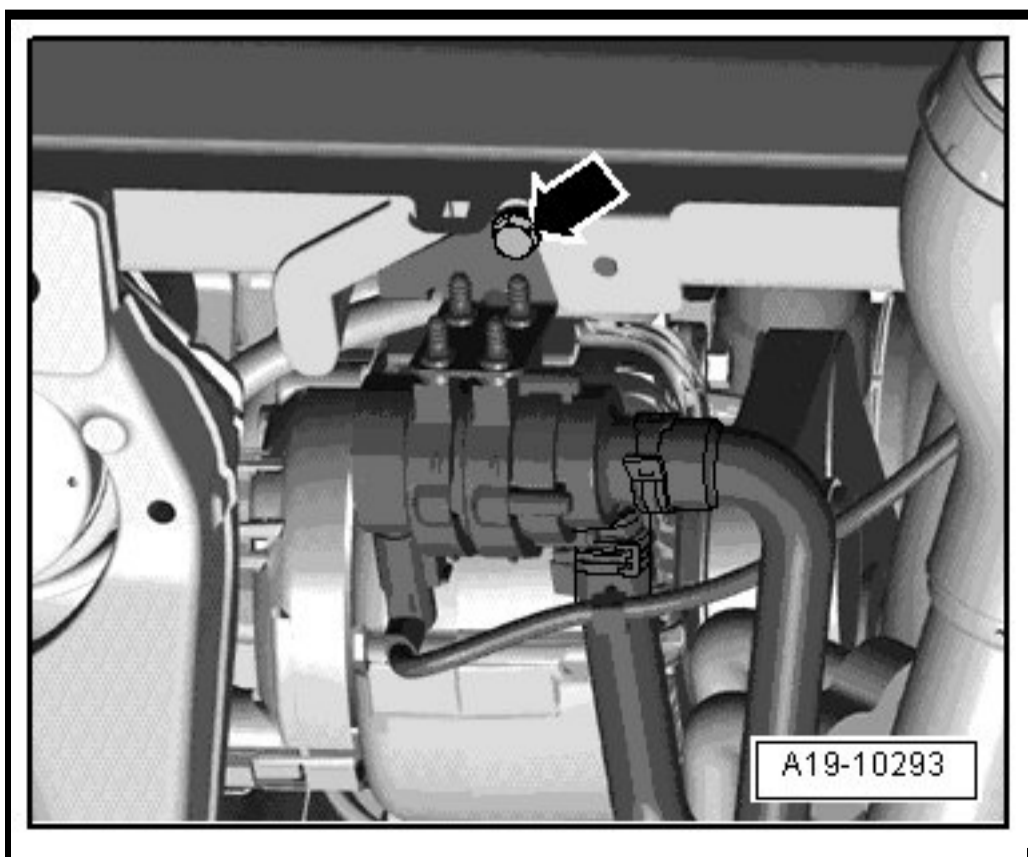
- Remove right front wheel.



Zoom

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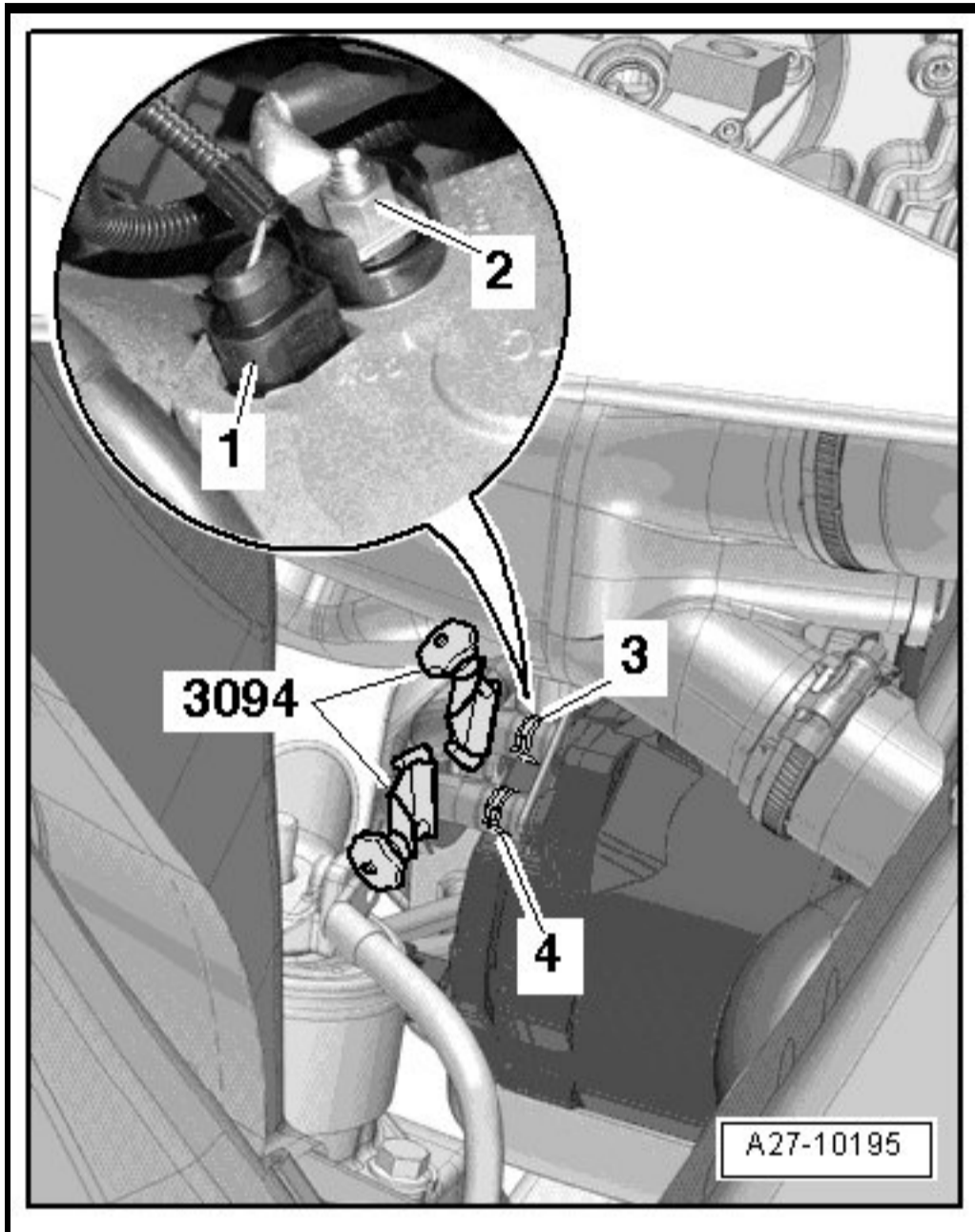
- Remove screws and remove the noise insulation in the front - **1** - and in the rear - **2** -.
- Remove the right wheel housing liner..
- Remove the screw - **arrow** - and move the fuel cooler pump (V166) with coolant hoses and electrical connector still connected to the side.



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- Remove the generator from the bracket.
- ⌘ 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.
- Place the (VAS 6208) under the generator.



Zoom

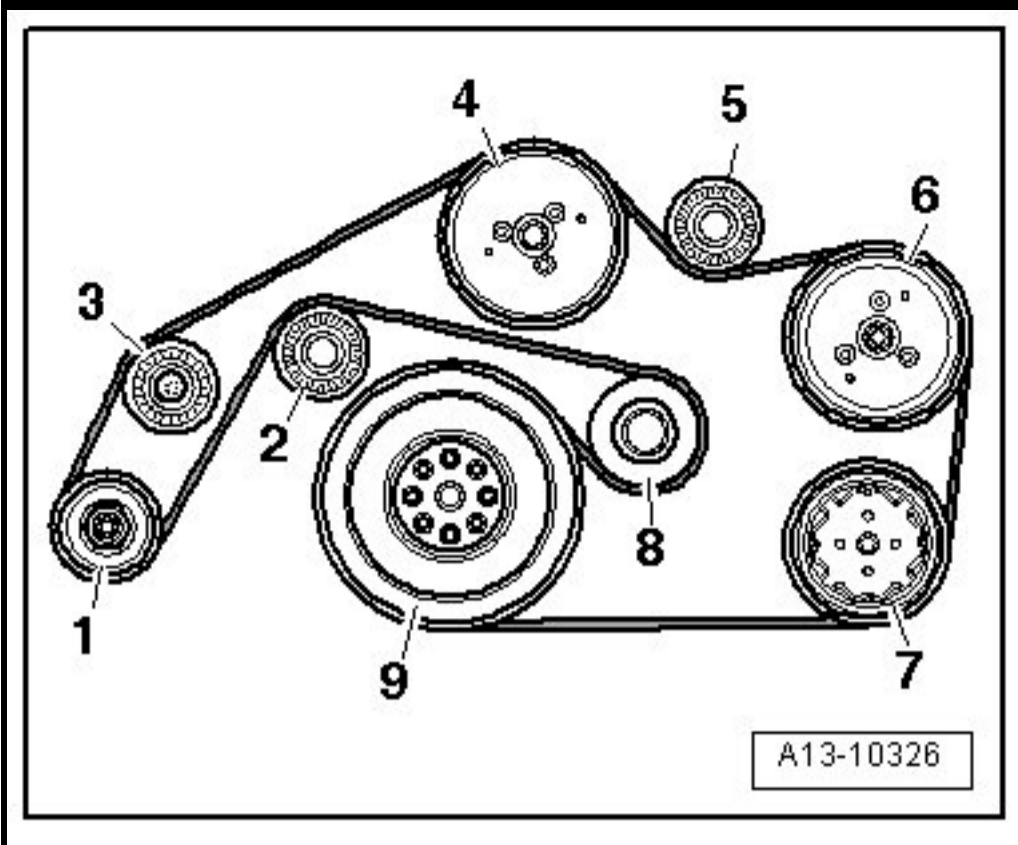
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- Clamp off coolant hoses - **3** - and - **4** - with hose clamps (3094) and then remove them.
- Disconnect the electrical connector - **1** -.
- Disconnect terminal 30/B+ - **2** - from the generator.
- Remove the generator to the right toward the wheel housing.

Installing

Install in reverse order of removal, observing the following:

- 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 the fuel cooler pump (V166).
 - Install the right wheel housing liner and the noise insulation..
 - Install the front wheel.
 - Install the idler roller.
 - Fit poly V-belt over pulleys.



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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.

- Install the charge air hoses and the charge air pipe.
- Install the air filter housing.
- 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

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