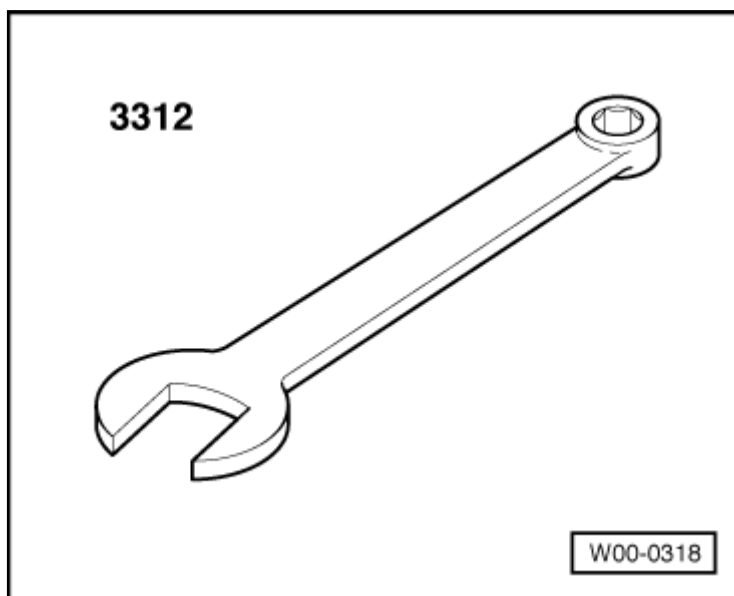


Removing and installing alternator

Vehicles with 6-cylinder TDI engine

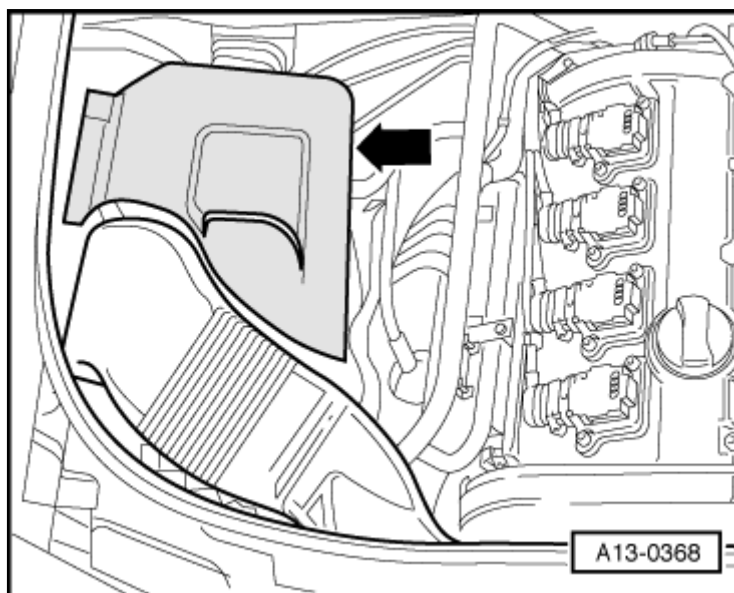
Special tools and workshop equipment required

- Open-end spanner 3312

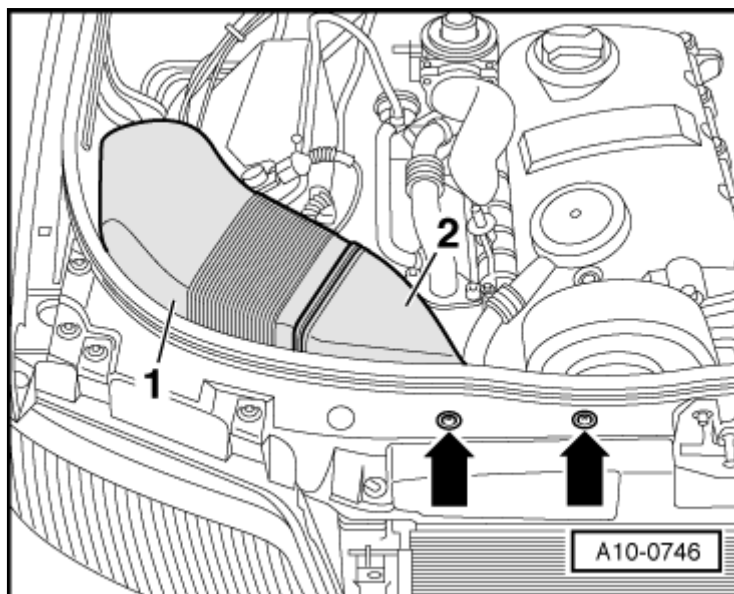


Removing

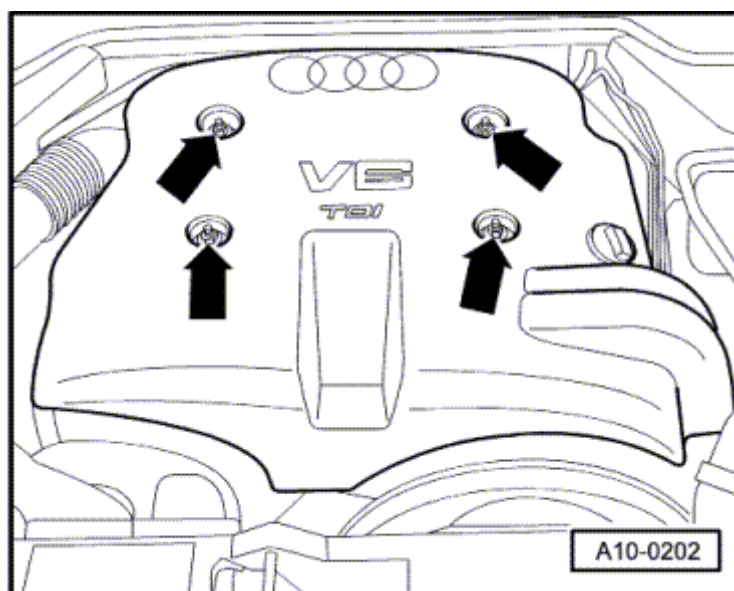
- → Detach air cleaner cover -arrow-.



- → Remove bolts -arrows-.
- Remove air duct -1- and -2-.



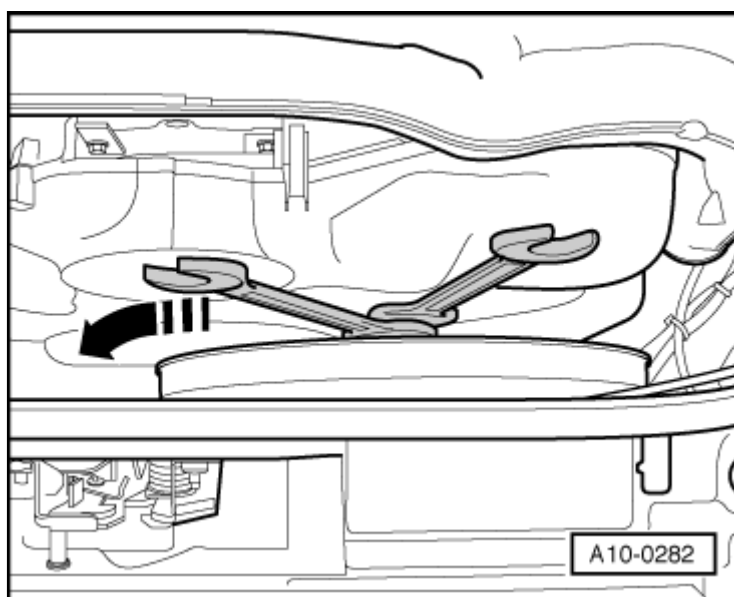
- Detach caps on engine cover panel.
- → Unbolt and remove engine cover panel.



- Move lock carrier to service position:

=> General body repairs - Exterior: Repair group 50; Body front

- → Remove viscous fan.



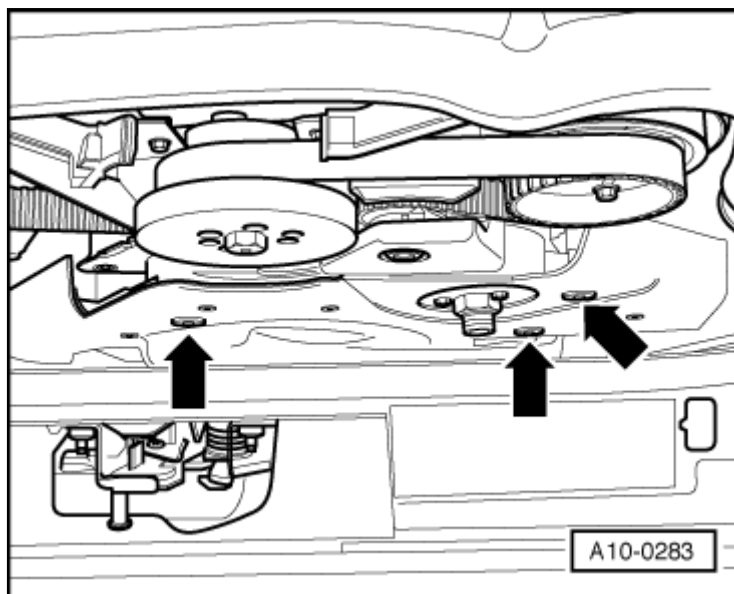
- Remove front toothed belt guard on

left and right.

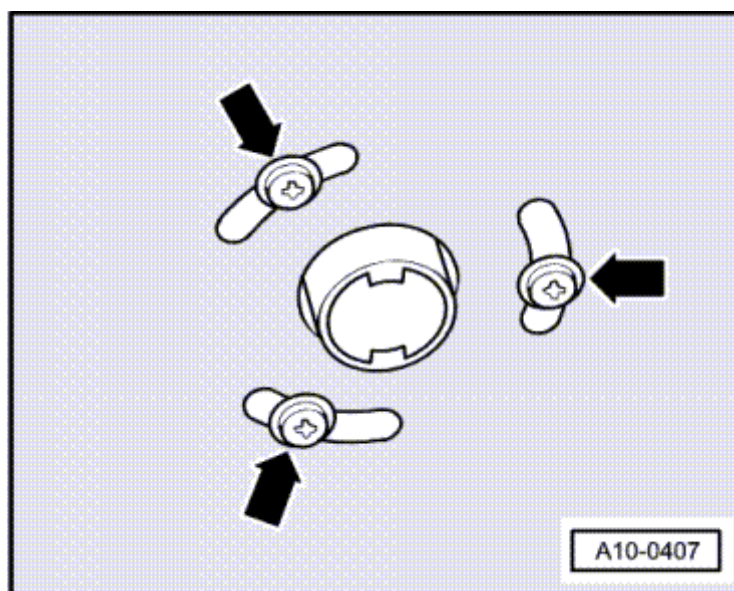
- → Remove ribbed belt cover - arrows-.

Note:

Watch position of spacer sleeves for ribbed belt cover.



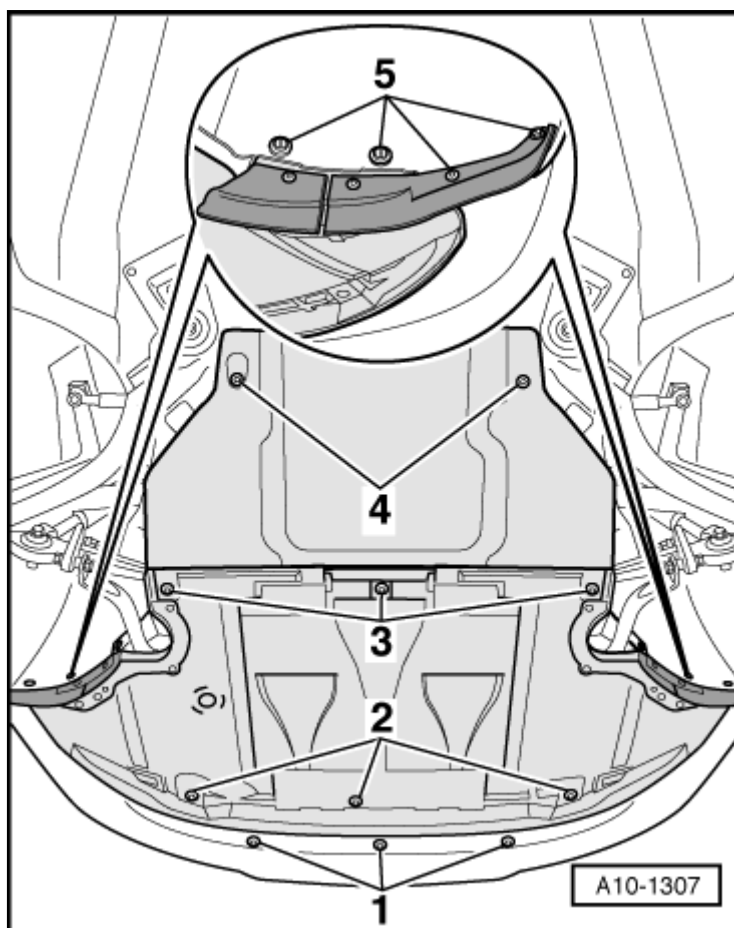
- → On vehicles fitted with auxiliary heater remove screws -arrows- securing exhaust pipe of auxiliary/ additional heater to noise insulation.



- → Release fasteners -1 ... 3- and -5-, and take off front section of noise insulation. Leave rear section of noise insulation in place.

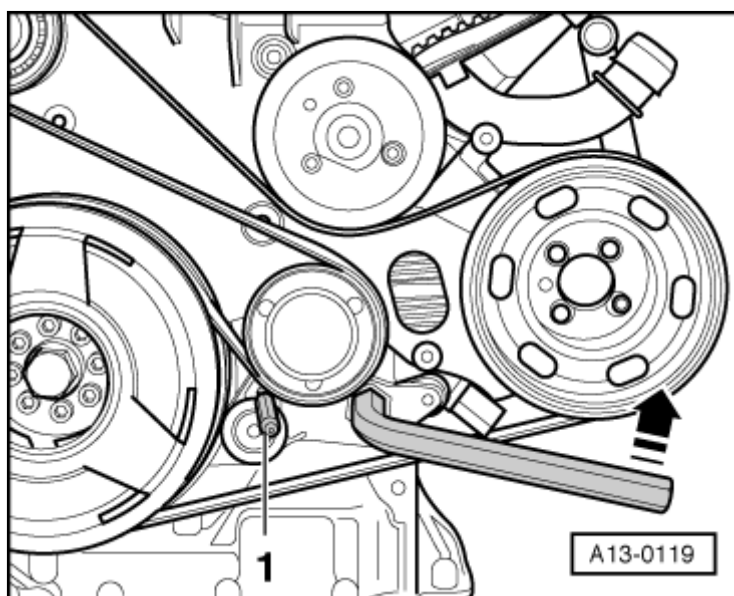
Note:

Illustration shows configuration as of model year 2002.

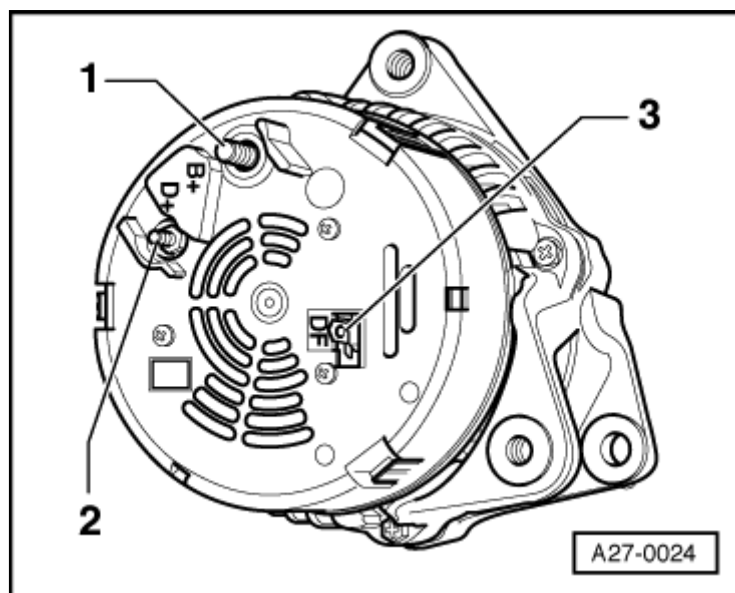
**Note:**

Before removing the ribbed belt, mark the direction of rotation with chalk or a felt pen. If a used belt rotates in the wrong direction when refitted, it can break.

- → Turn Allen key in direction of arrow and insert a 4 mm dia. pin (small punch or similar) -Item 1-.
- Remove ribbed belt from belt pulley on alternator.



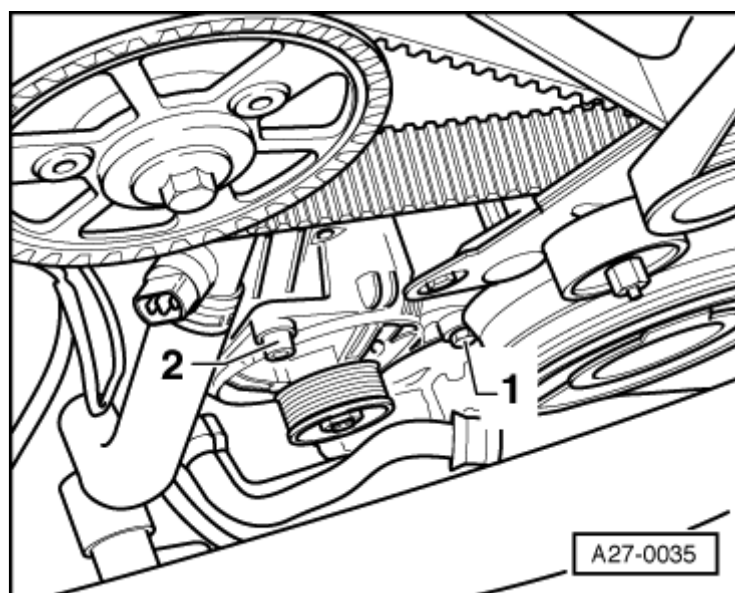
- → Disconnect wire from terminal 30/B+ -1- on alternator.
- Disconnect D+ terminal -2-.
- Unplug connector for DF terminal -3-.



- → Unscrew bolts -1- and -2-.
- Unplug connector for hydraulic engine mounting.
- Take out alternator from below.

Warning

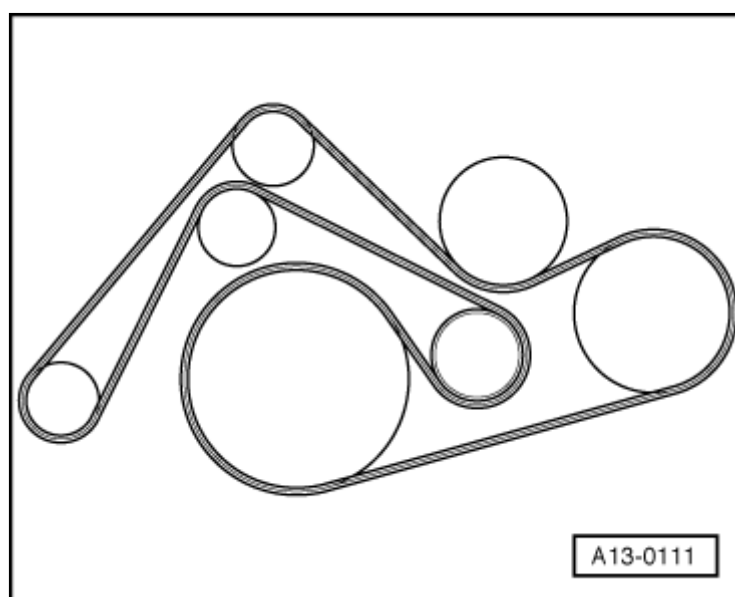
Be very careful when pushing refrigerant pipes aside to remove alternator.



Installing

Install in reverse sequence; note the following points:

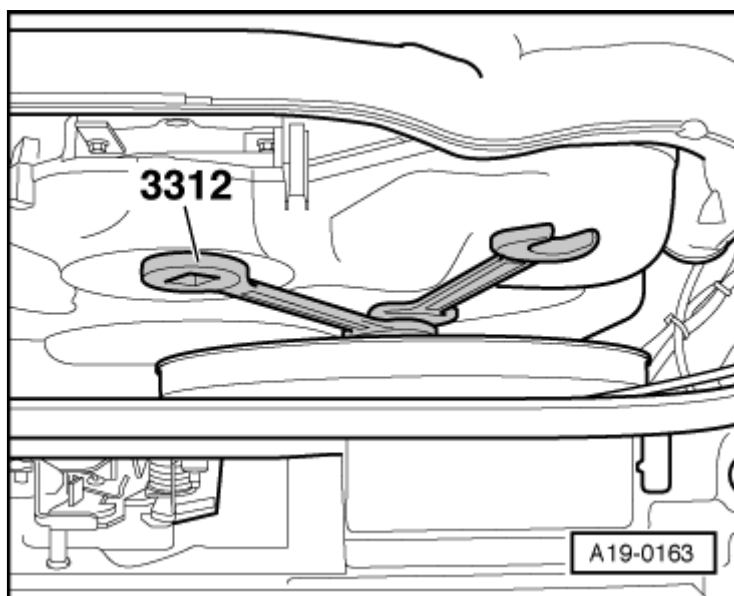
- → Ensure that ribbed belt is correctly routed and properly seated.



- → Secure viscous fan using open-

end spanner 3312.

Tightening torque for viscous fan	Nm
Torque wrench 1331 and open end spanner 3312	37
Torque wrench without open end spanner 3312	70



- → Remove pin -1-; to do this, turn Allen key in direction of arrow.
- Start engine and check that belt runs properly.

Tightening torques

Component		Nm
Alternator to engine	M8	22
	M10	45
30/B+ terminal on alternator		16
D+ terminal on alternator		4
Ribbed belt cover to bracket		10

