

## Starter, removing and installing

### **CAUTION!**

***Disconnect the battery Ground (GND) strap before working on the electrical system.***

### **Notes:**

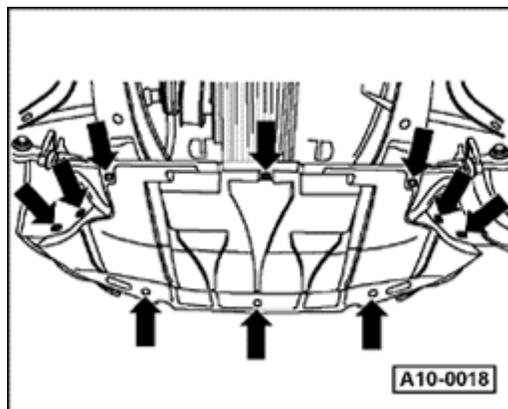
- ◆ *Before disconnecting the battery, determine the correct coding for the anti-theft radio.*
- ◆ *Once the battery is reconnected, check and activate the vehicle's electrical equipment (radio, clock, comfort and convenience features, etc.) as described in this Repair Manual or the Owners Manual.*

## Vehicles with 4-cylinder gasoline engines

### Removing

A

- Remove noise insulation panel (arrows).



### Vehicles with air conditioning

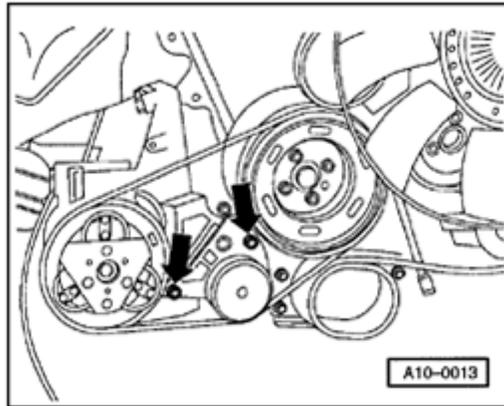
- Remove front bumper.

⇒ [Repair Manual Body Exterior, Repair Group 63](#)

- Move lock carrier into service position.

⇒ [Repair Manual Body Exterior, Repair Group 50](#)

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**A**

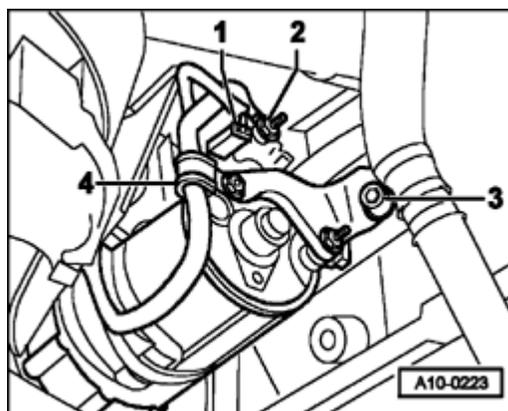
- Loosen mounting bolts for air conditioning compressor belt tensioner (arrows).
- Release tension on ribbed belt and remove.

**Note:**

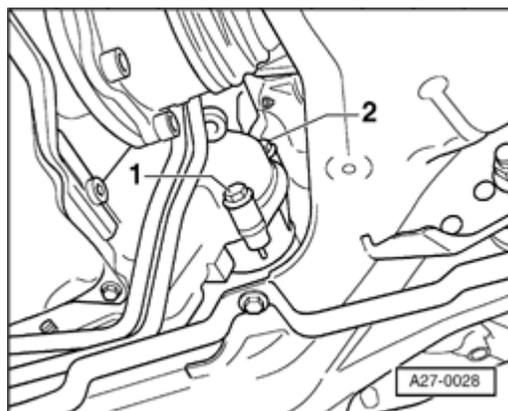
*Before removing the ribbed belt, mark the direction of travel with chalk or a felt tipped marker. Reversing the direction of travel of an used belt can destroy it. When installing the belt, make sure it is correctly seated in the belt pulleys.*

- Unbolt air conditioning compressor.  
Tightening torque: 25 Nm (18 ft lb)
- Hang air conditioning compressor up on chassis with its refrigerant lines attached.

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- A**
- Disconnect wire from terminal 30/B+ by removing nut -2-.  
Tightening torque: 16 Nm (12 ft lb)
  - Disconnect harness connector -1- from terminal 50.
  - Remove bolt -3-.  
Tightening torque: 22 Nm (16 ft lb)
  - Unbolt wiring clamp -4-.  
Tightening torque: 4 Nm (35 in. lb)



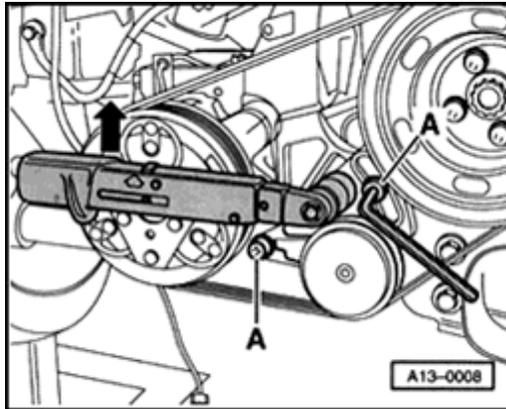
- A**
- Remove starter mounting bolts -1- and -2-.  
Tightening torque: 65 Nm (48 ft lb)
  - Remove starter toward front.

## Installing

Installation is the reverse of removal; noting the following:

### Vehicles with air conditioning

- Install ribbed belt for air conditioning compressor.

**A**

- Place torque wrench on hex head of belt tensioner as shown and tighten to 25 Nm (18 ft lb).
- Maintain torque on belt tensioner and tighten bolt -A- to 20 Nm (15 ft lb).

### All vehicles

- Start engine and make sure belt runs properly.

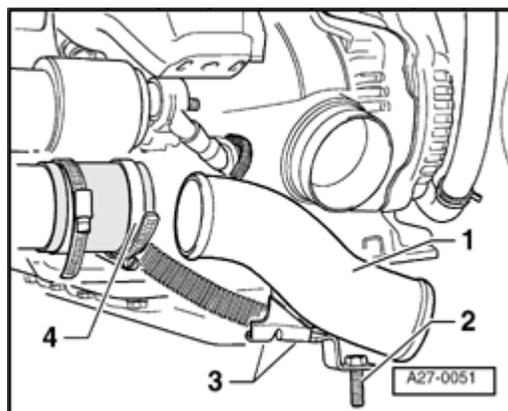
## Vehicles with 6-cylinder gasoline engines

### Removing

#### Note:

To remove the starter, it is first necessary to remove the generator ⇒ [Page 27-26](#).

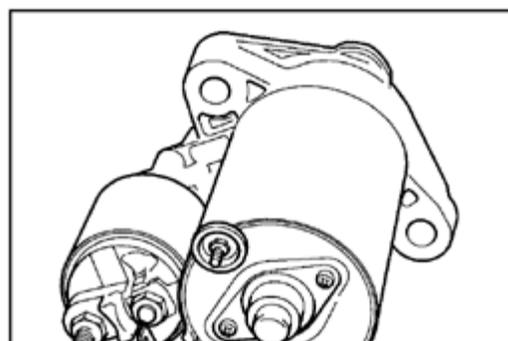
#### 2.7 L/184 kW engine, 5V twin-turbo only



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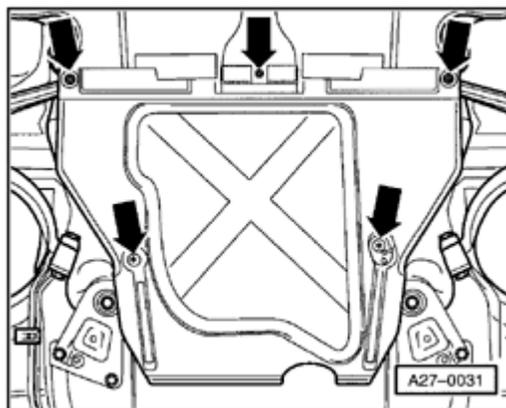
- Remove air duct -1-.
- 2 - Attachment point for oil and refrigerant lines
- 3 - Engine block mounting point
- 4 - Hose clamp (loosen)

#### All vehicles



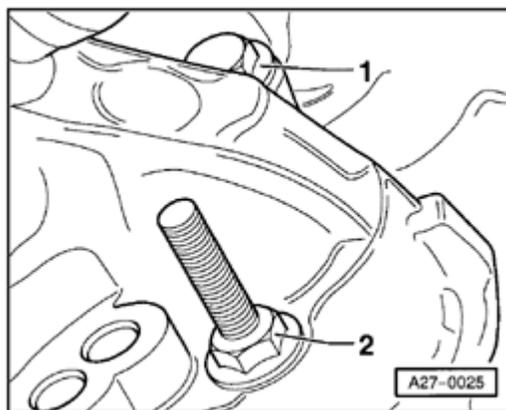
A

- Disconnect wire from terminal 30/B+ -2- by removing nut. Tightening torque: 16 Nm (12 ft lb)
- Disconnect harness connector from terminal 50 -2-.



### Vehicles with manual transmission

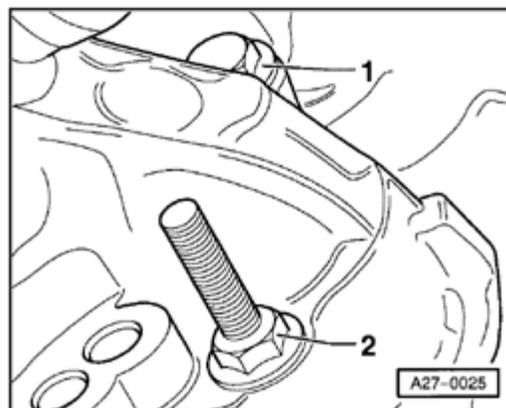
- Remove rear noise insulation panel (arrows).



- Remove mounting bolts -1- and -2- for starter.  
Tightening torque: 65 Nm (48 ft lb)
- Remove starter toward front.

**Vehicles with automatic transmission**

- Remove right-front wheel.
- Upper bolt -1- can be unscrewed from right-front wheel housing.  
Tightening torque: 65 Nm (48 ft lb)
- From engine side, remove lower bolt.  
Tightening torque: 65 Nm (48 ft lb)
- Remove starter toward front.

**A****Installing**

- Install starter in reverse order of removal.