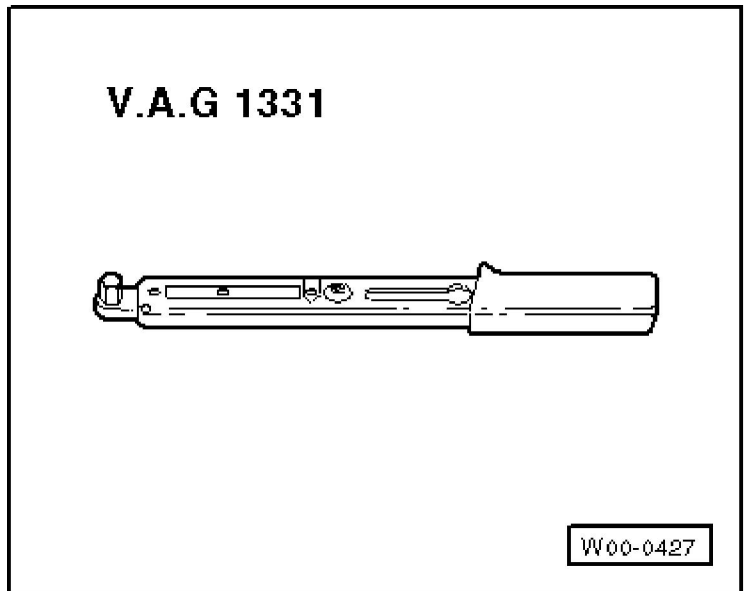


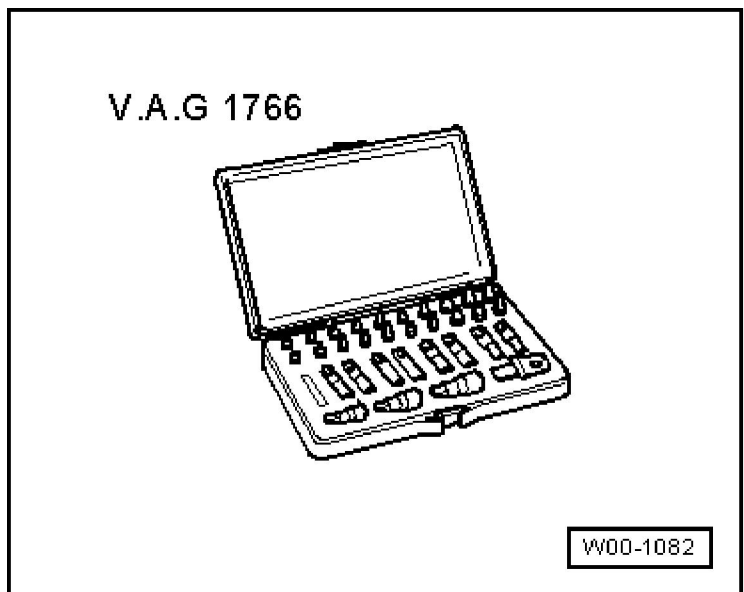
Air Supply Unit, 10- and 12-Cylinder, Removing and Installing

Special tools and workshop equipment required

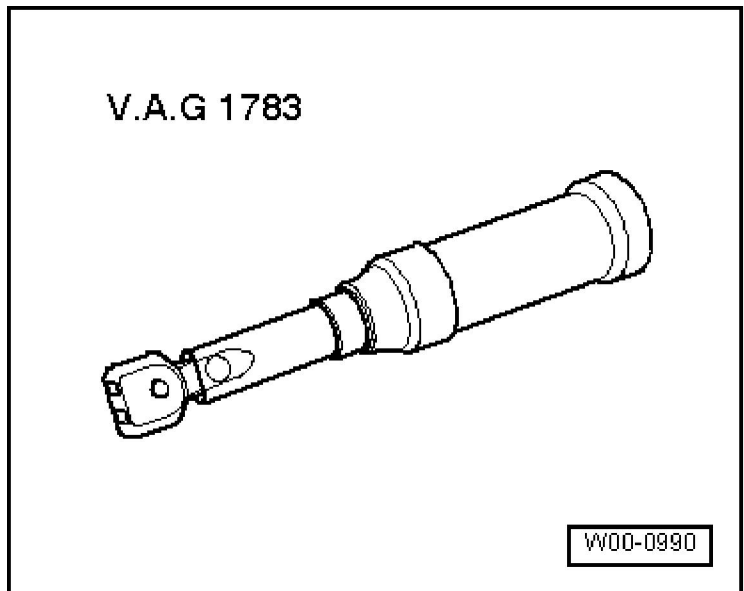
t Torque wrench -V.A.G 1331-



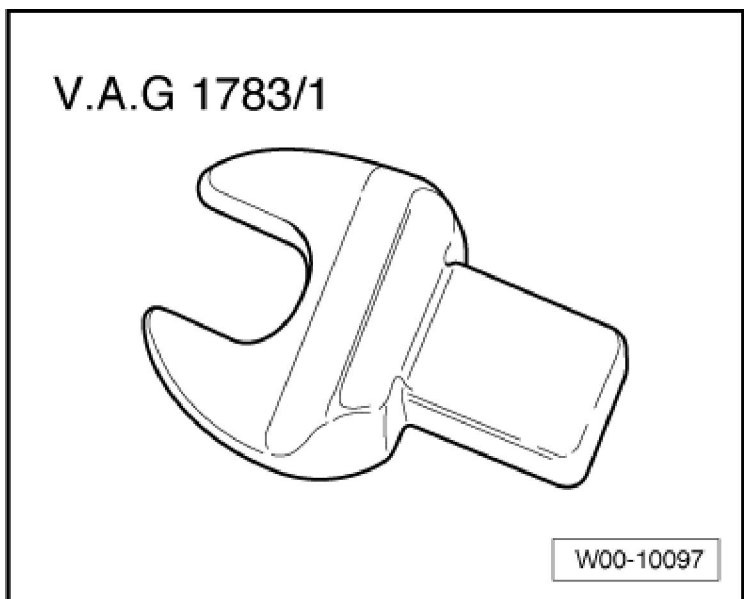
t Torx T45 socket -V.A.G 1766/1-



t Torque wrench -V.A.G 1783-



- t Insert tool 10 -V.A.G 1783/1-



- t Spring type clip pliers -VAS 5024 A-

Removing

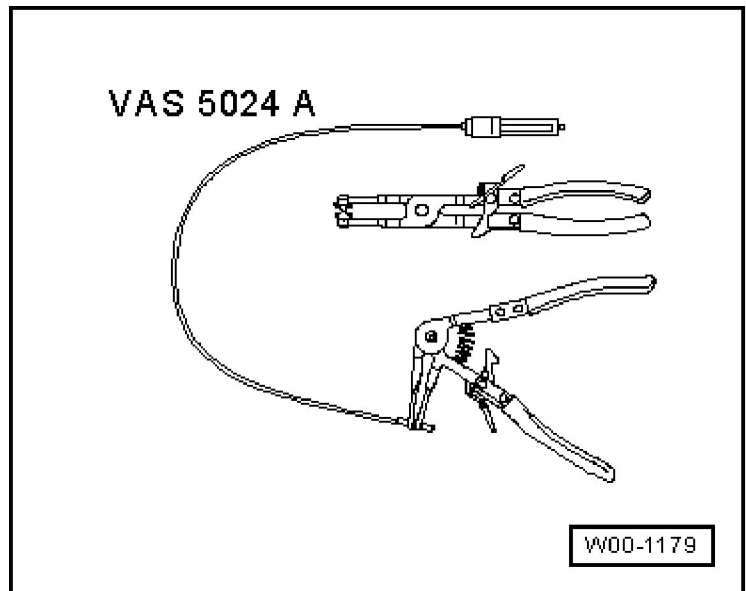


Note

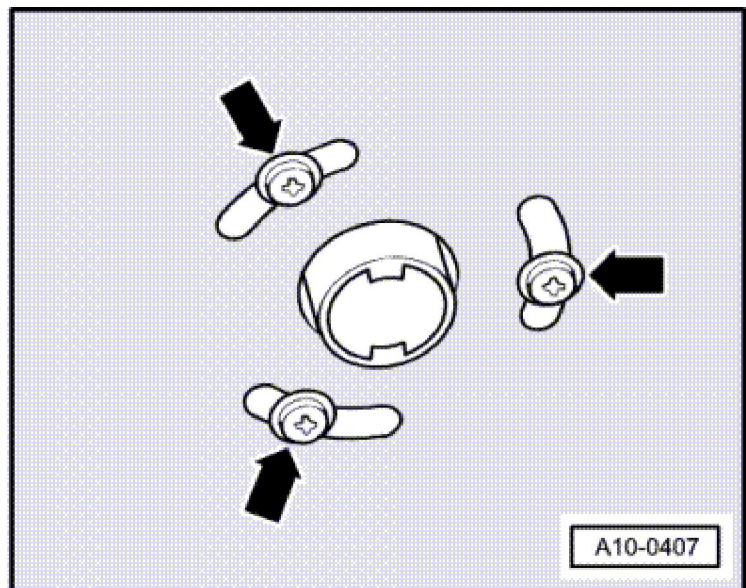
- t *The air supply unit is installed at the left behind the front bumper.*
- t *When installing the air supply unit, install any cable ties that were loosened or cut during removal.*
- t *Clean air connection area before separating.*
- Place vehicle on a hoist **Chapter.**
- Vent system **Chapter.**
- Remove wheel covers, remove cover cap on light-alloy wheels (removal hook in vehicle tool)

kit).

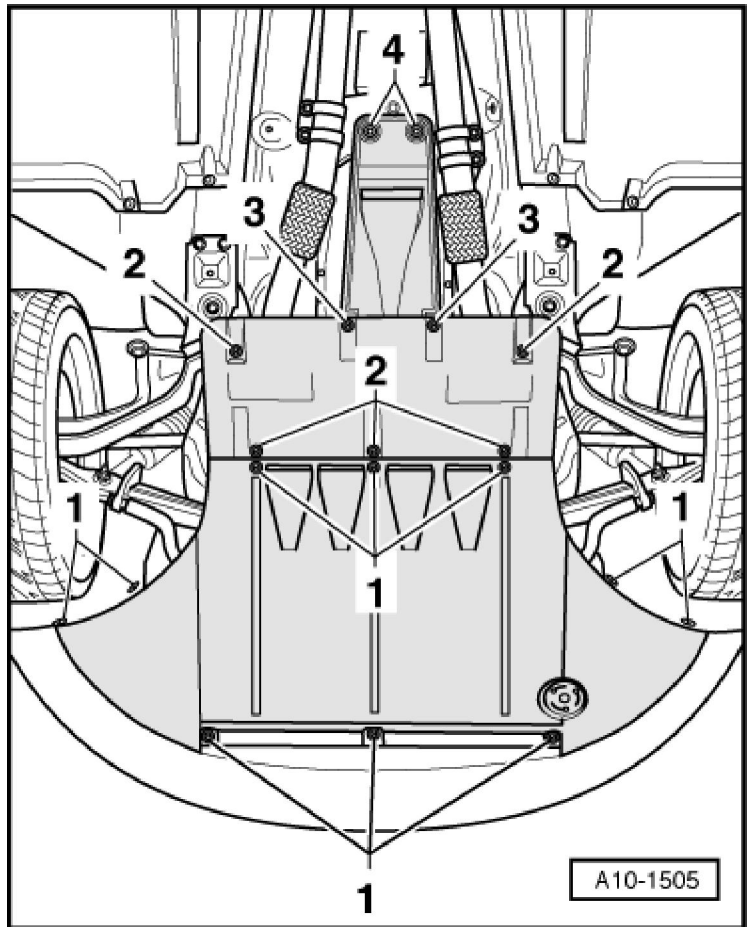
- Remove left front wheel.
- Secure brake disc with a wheel bolt.



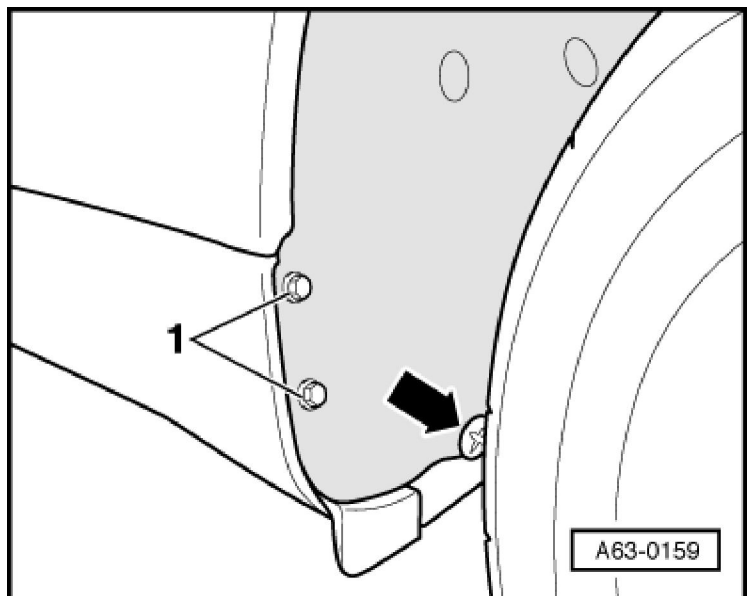
- On vehicles with an auxiliary heater, remove bolts -arrows- connecting the exhaust pipe to the noise insulation.



- Loosen quick-release fasteners -1- and -2- and remove noise insulation.

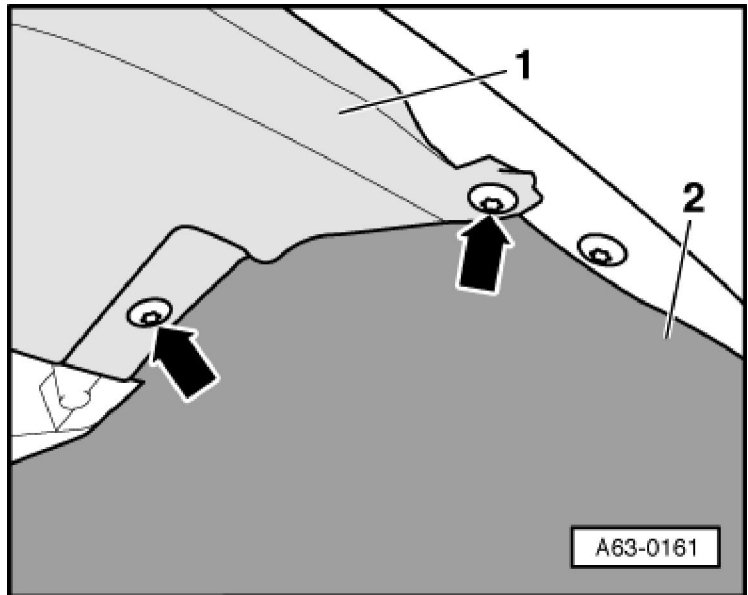


- Remove bolts -1- from front wheel housing liner.



- Remove both bolts -arrows- from front wheel housing liner.

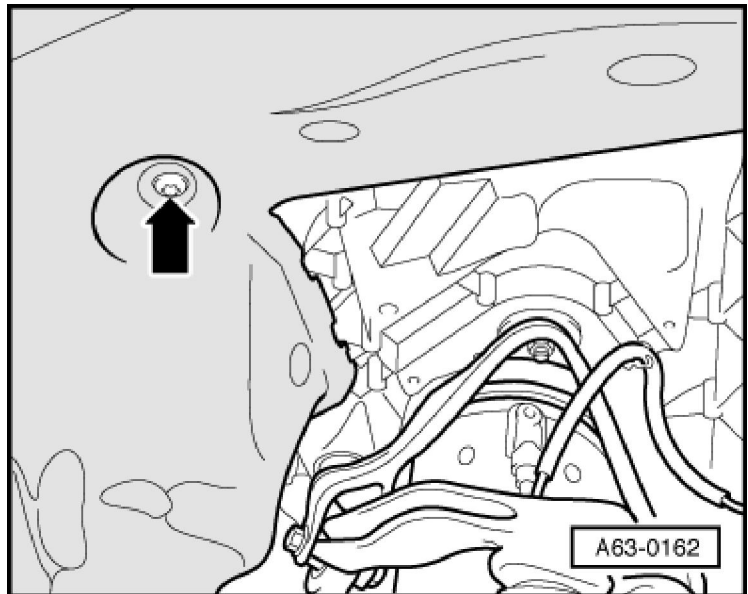
Do not remove rear wheel housing liner -2-.



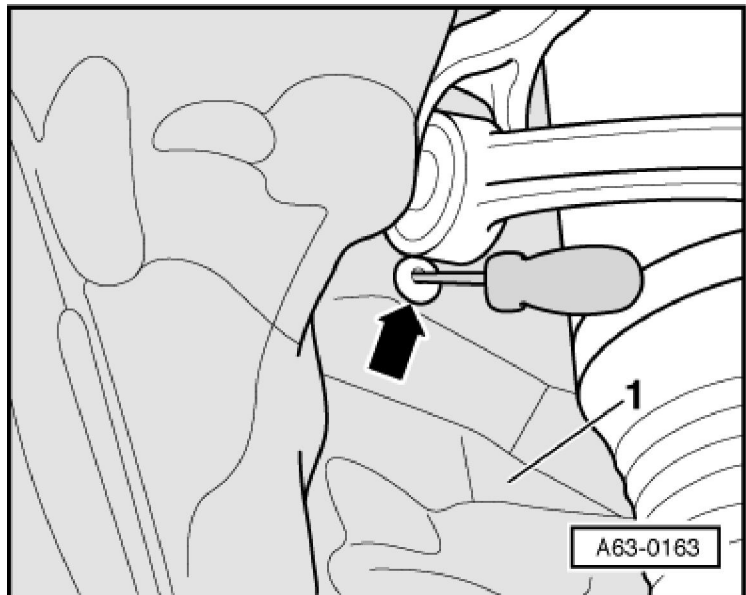
- Remove upper bolt -arrow- from front wheel housing liner.

Note

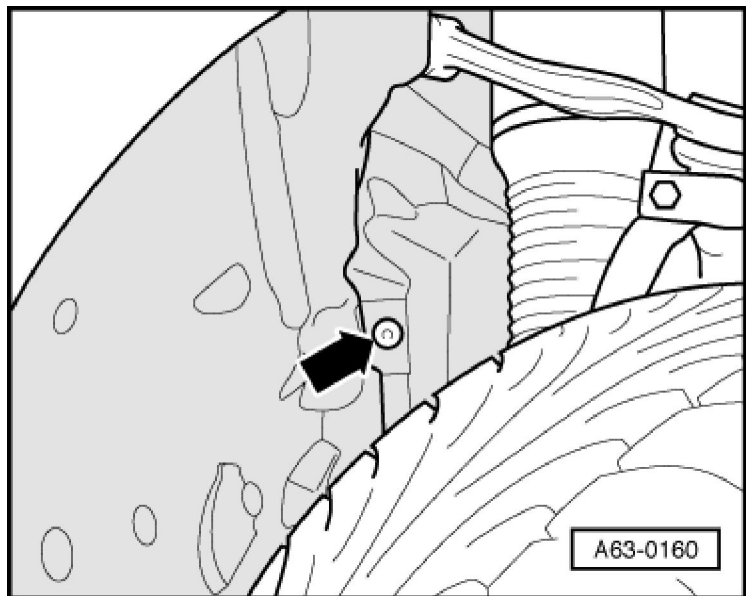
- t Press the locking pins on the wheel housing liners only about 5 mm into the expanding clip and not all the way through.
- t This releases the locking pin so it can be removed.
- t When installing, slide the locking pin back and the expanding clip can be used again.



- Press the locking pins on the expanding clips on the front wheel housing liner -1- about 5 mm deep into the expanding clip using a screwdriver.
- Remove the expanding clip.



- Repeat the procedure to remove the expanding clip -arrow- in the upper area of the front wheel housing liner.

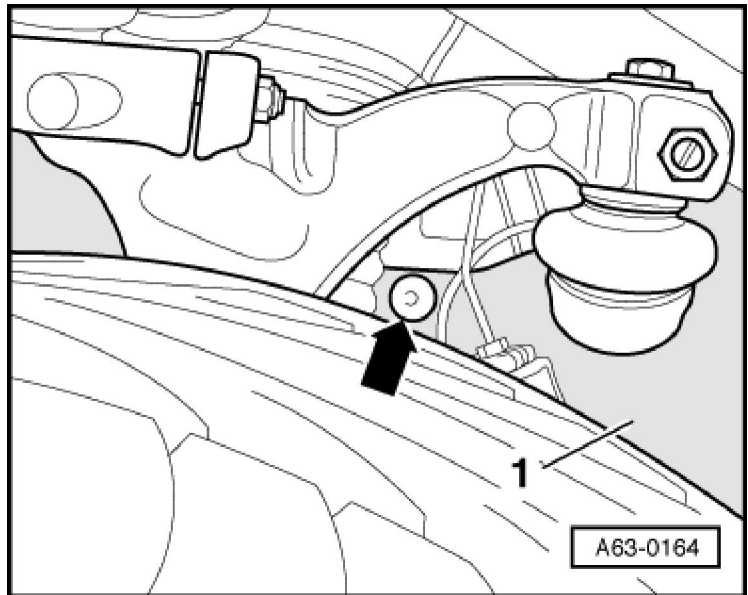


- Repeat the procedure to remove the expanding clip -arrow- in the rear area of the front wheel housing liner -1-.

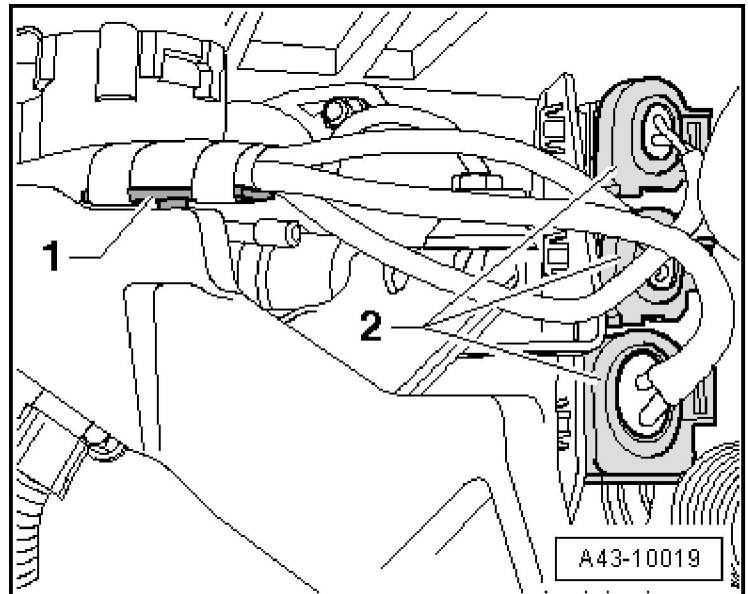
Follow the safety precautions when disconnecting the battery [Electrical Equipment - General Information; Rep. Gr.27](#).

- Disconnect battery Ground (GND) cable with the ignition switched off [Electrical Equipment; Rep. Gr.27](#).
- Remove front bumper cover [Body Exterior; Rep. Gr.63](#).
- Bring lock carrier into service position [Body Exterior; Rep. Gr.50](#).
- Remove left front headlamp. [Standard](#)

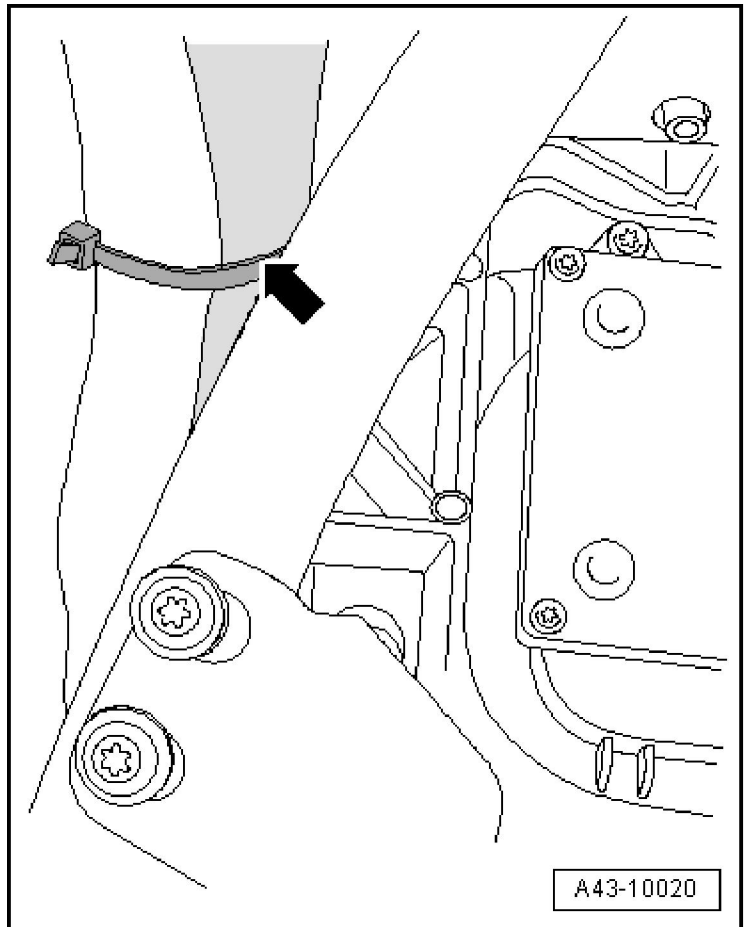
Electrical Equipment; Rep. Gr.94 HID
Electrical Equipment; Rep. Gr.94.



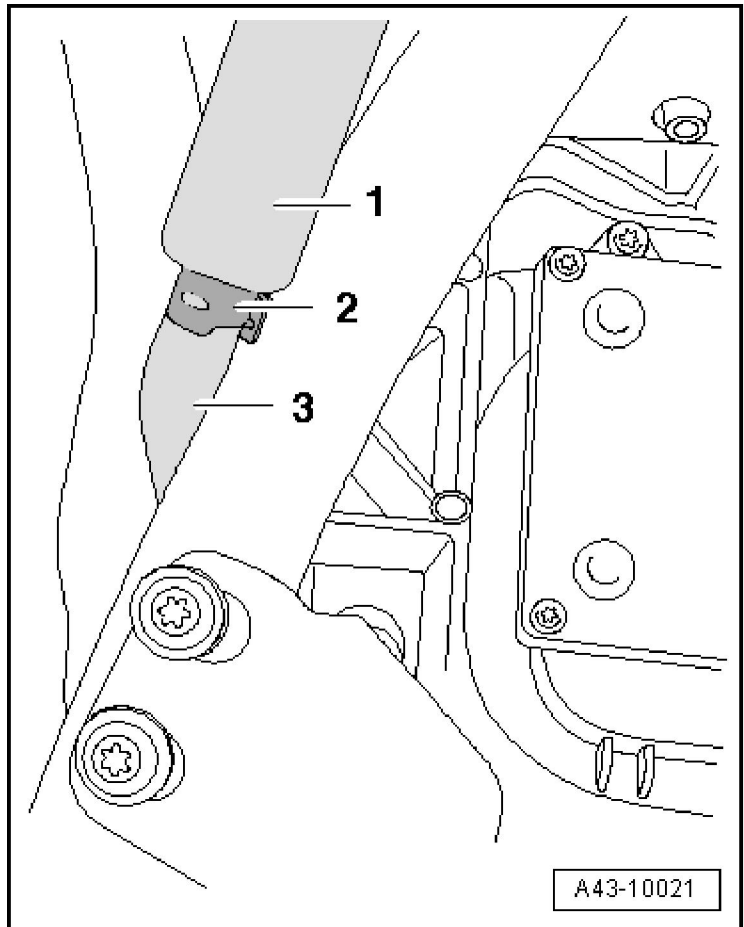
- Remove wiring harness bracket -1- from air supply unit bracket.
- Disconnect connectors -2-.



- Carefully cut air intake hose cable ties -arrow-.



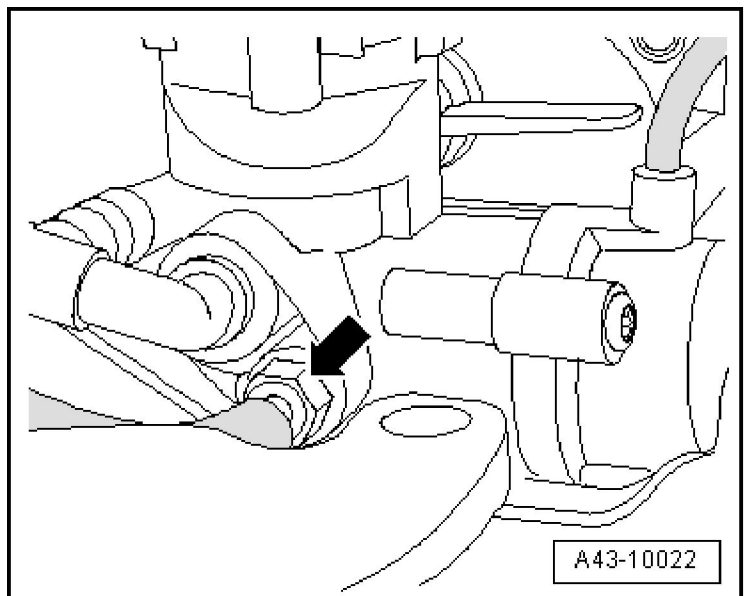
- Loosen spring clamp -2- from air intake hose -3- using spring type clip pliers -VAS 5024 A-.
- Remove air intake hose -3- from air hose muffler -1-.
- Clean air connection area before separating.



- Remove connecting piece -arrow- on the air supply unit. Air escapes then.

**Note**

The air supply unit is removed with its bracket.



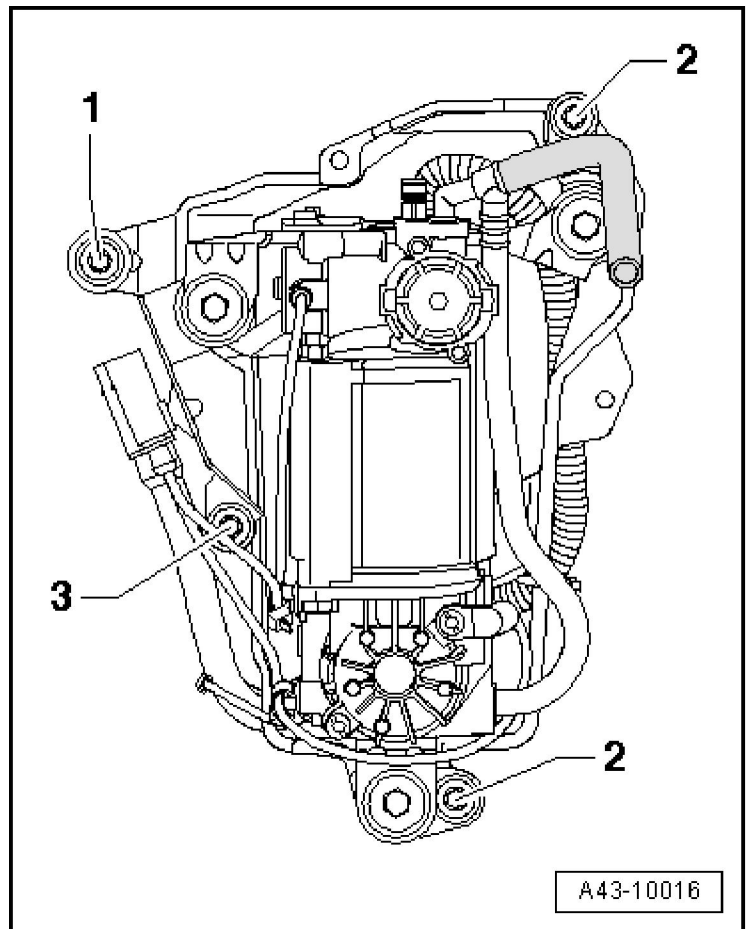
- To remove air supply unit with bracket, remove bolts -1- through -3-.

1 - Bolt with washer

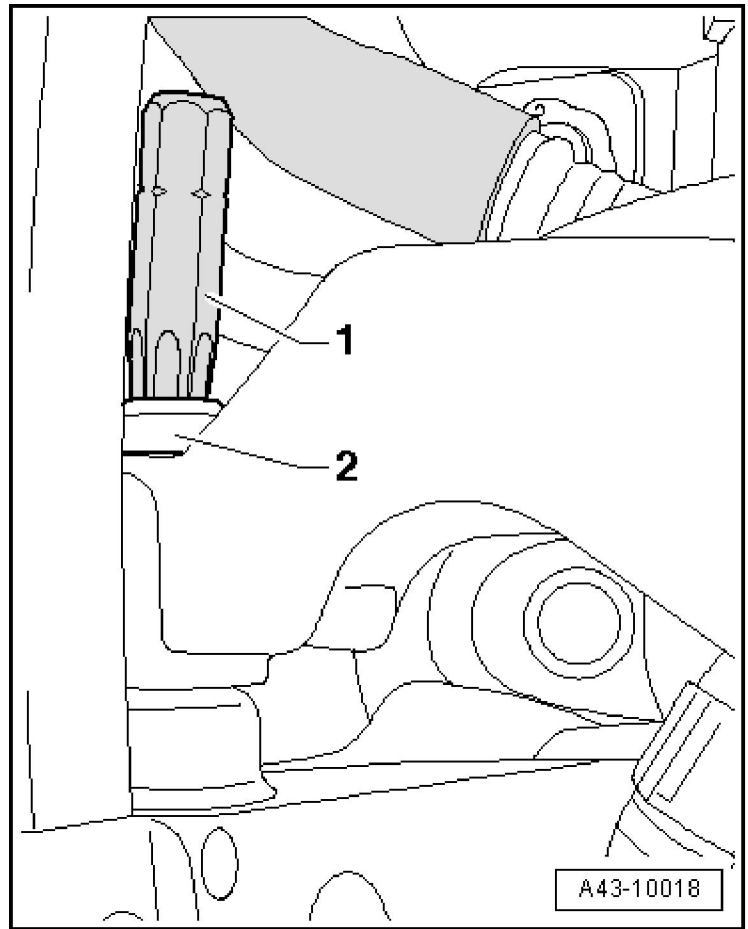
2 - Bolt without washer

- Use a Torx T45 socket -V.A.G 1766/1- and

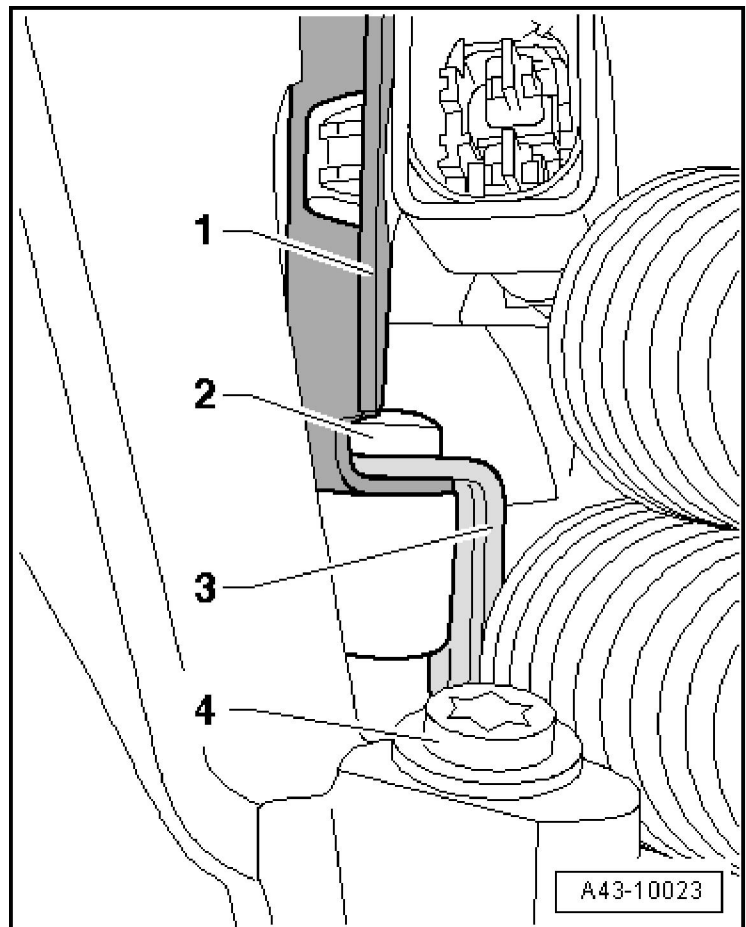
- open end wrench to remove and install
- 3 - Bolt without washer
- for connector retaining plate and reservoir bracket



- Remove bolt -2- on fender using Torx T45 socket -V.A.G 1766/1--1-.



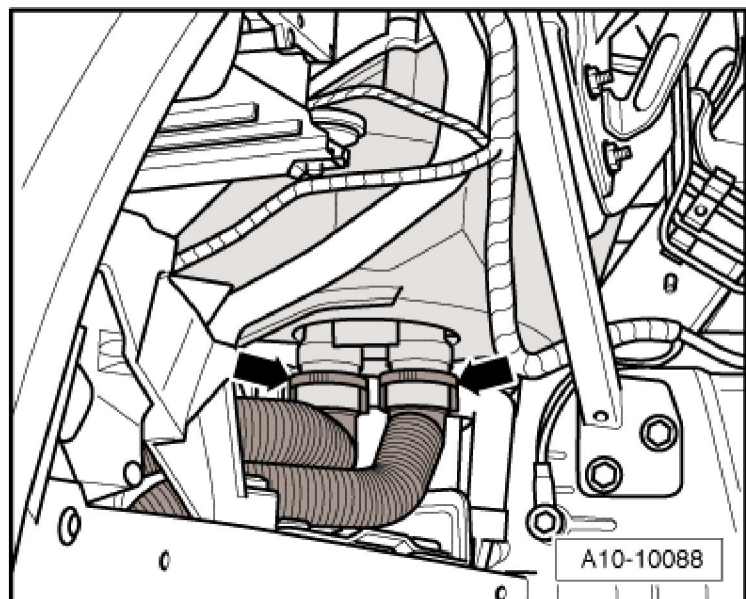
- Remove bolts -2- and -4-.



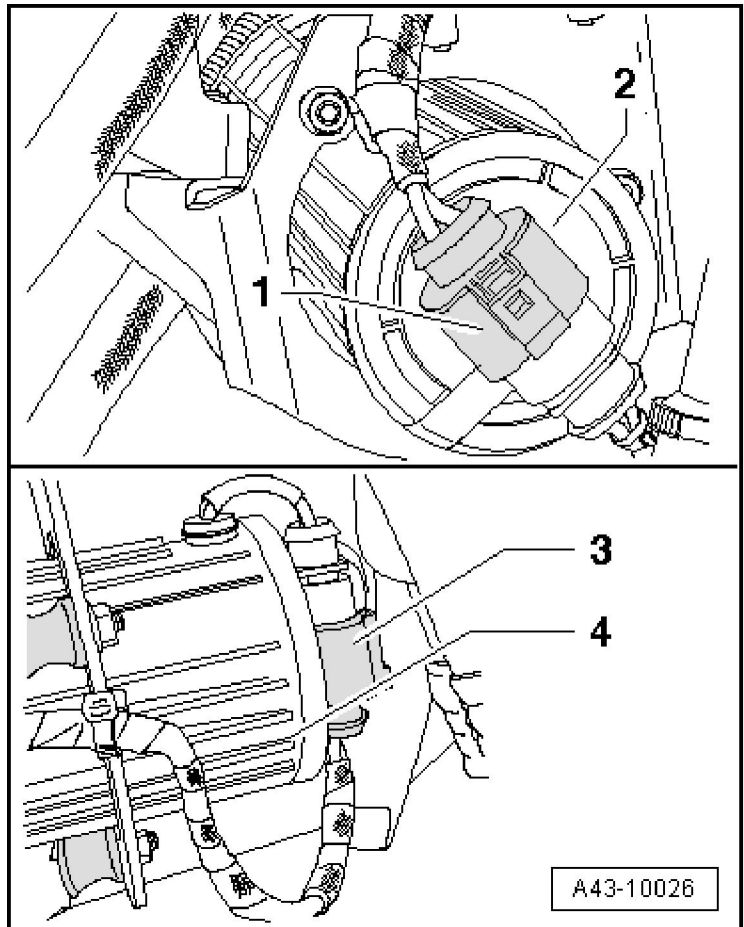
- Remove both air guide hoses -arrows- on the bottom of the lower left air filter housing section. Press release buttons together to do that.
- Remove both air guide hoses on the bottom of the secondary air injection pump motor -V101- and secondary air injection pump motor 2 -V189-. Press release buttons together to do that.
- Remove both air guide hoses.

Note

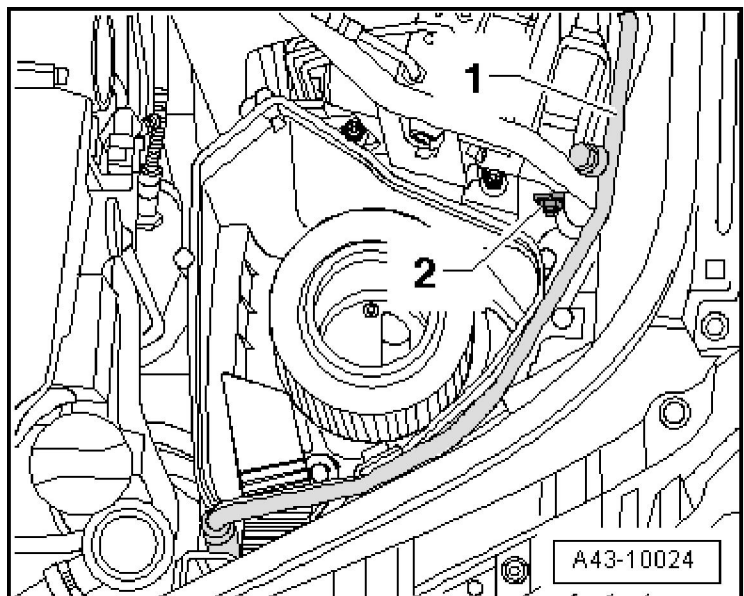
- t *Mark the secondary air injection pump motor -V101- and secondary air injection pump motor 2 -V189- connectors before removing them.*
- t *The connector housings are identical and interchangeable.*



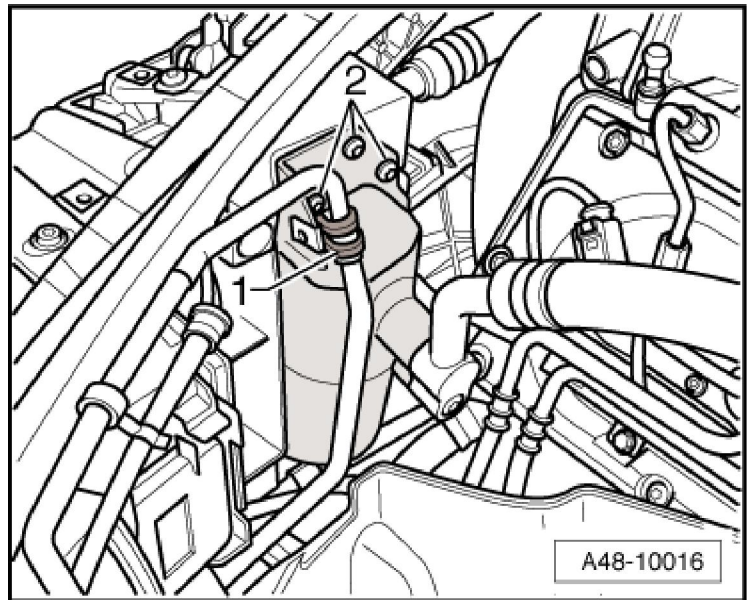
- Mark connector -1- and release and remove it from the secondary air injection pump motor 2 -V189-2-.
- Mark connector -3- and release and remove it from the secondary air injection pump motor -V101-4-.



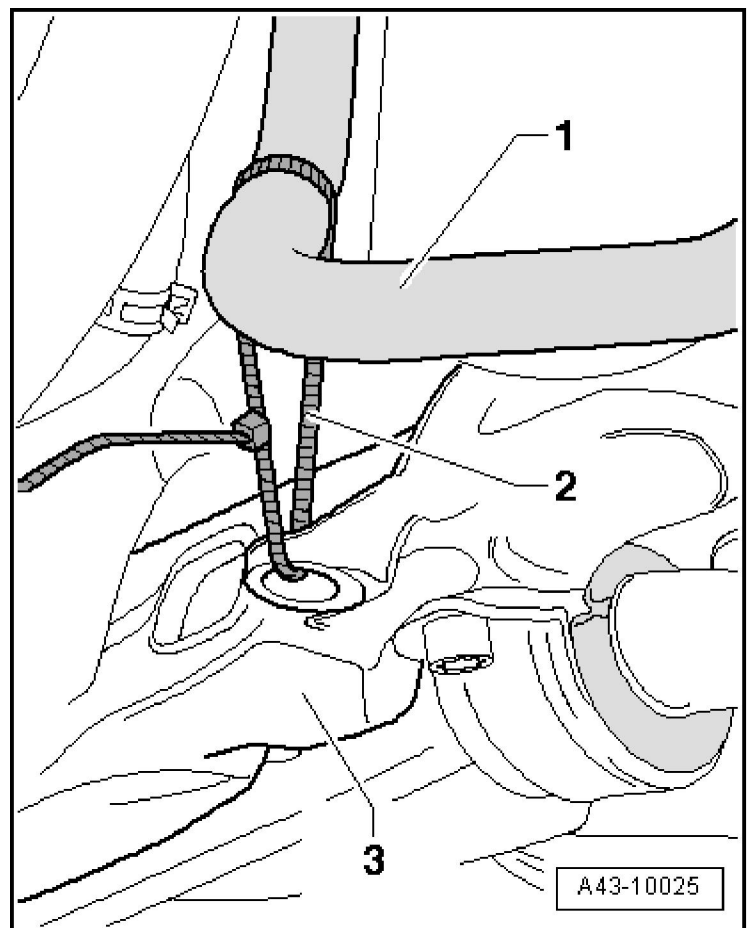
- Remove nut -2- and A/C line -21- from threaded pin.



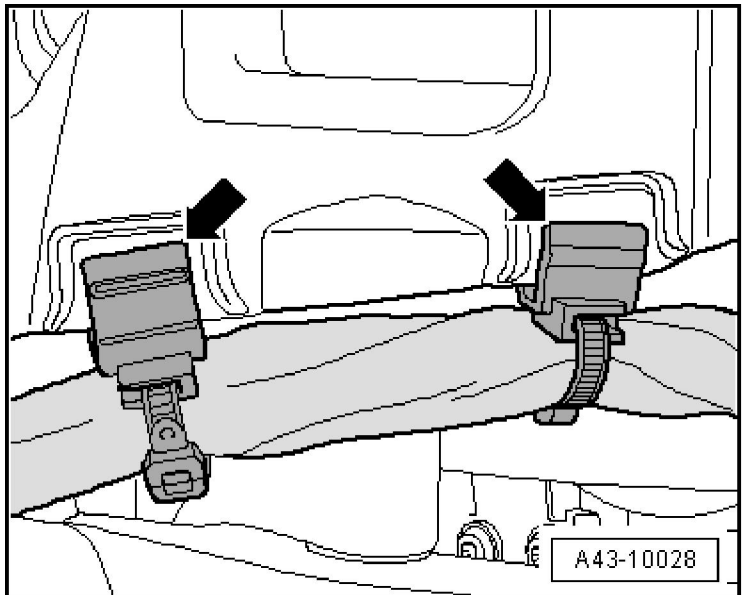
- Remove clamp -1- from reservoir if applicable.
- Remove bolts -2- from reservoir.



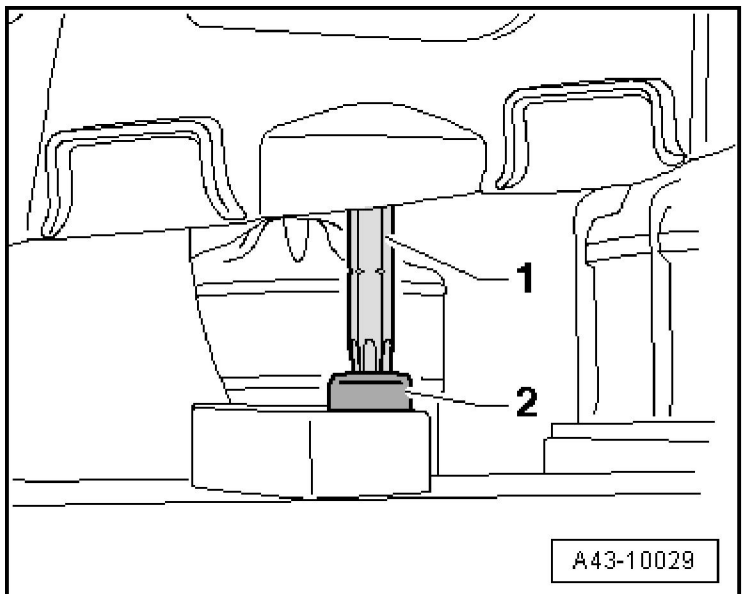
- Pull line -1- away from reservoir to the right and secure it to the subframe -3- using a cable tie -2-.
- Remove cable ties securing wiring harness to the air supply unit bracket, if applicable.



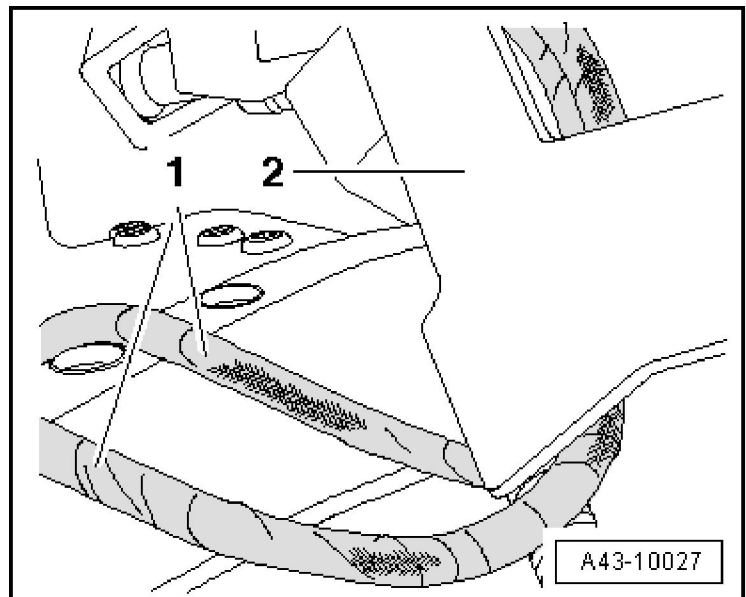
- Remove bracket -arrows- on lock carrier.



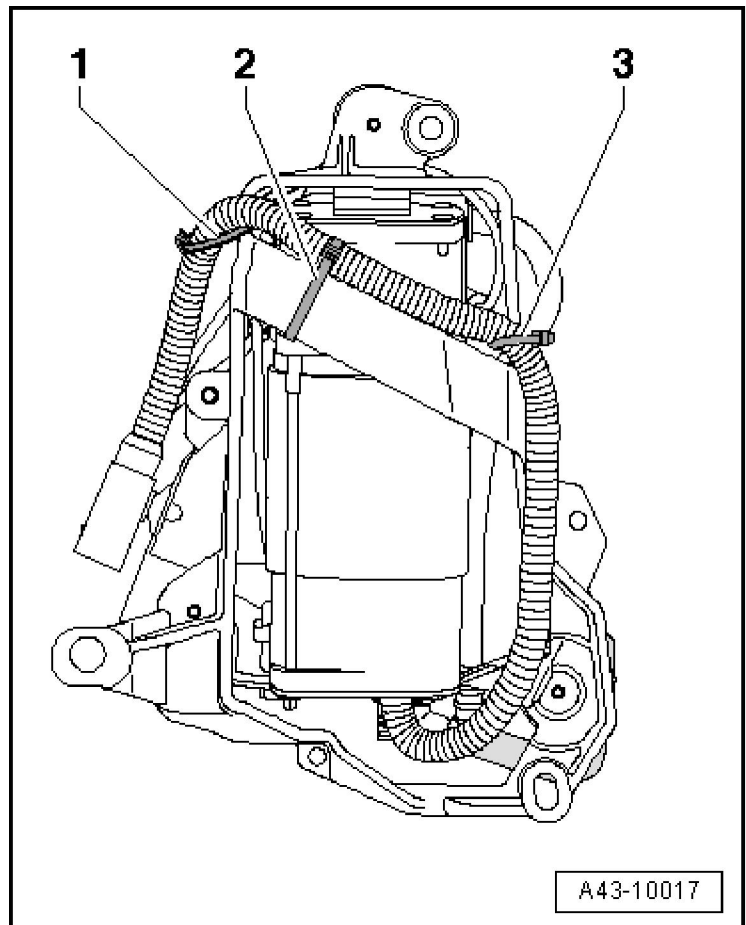
- Remove front bolt -2- using Torx T45 socket - V.A.G 1766/1--1-.
- Pull air supply unit with bracket back slightly in wheel housing.



- Disengage both lines -1- for the secondary air injection pump motor -V101- and secondary air injection pump motor 2 -V189- from air supply unit bracket -2-.
- Remove air supply unit with the bracket.



- Carefully cut through the cable ties -1- through -3- if the air supply unit will be separated from the bracket.

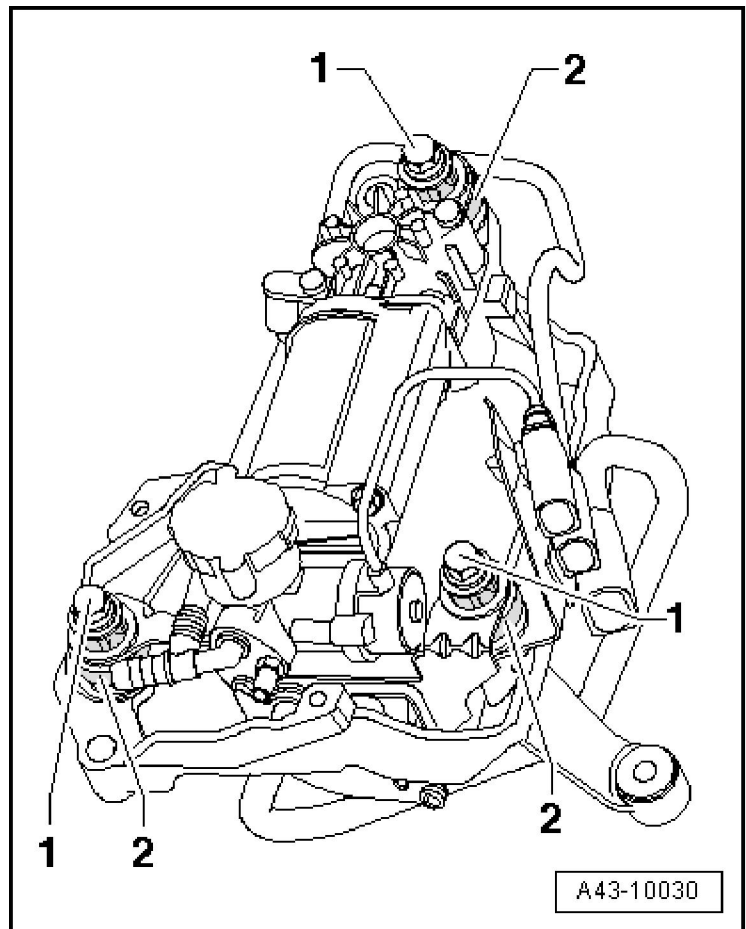


- Remove bolts -1- and air supply unit.
- Remove rubber bushing -2- from air supply unit.

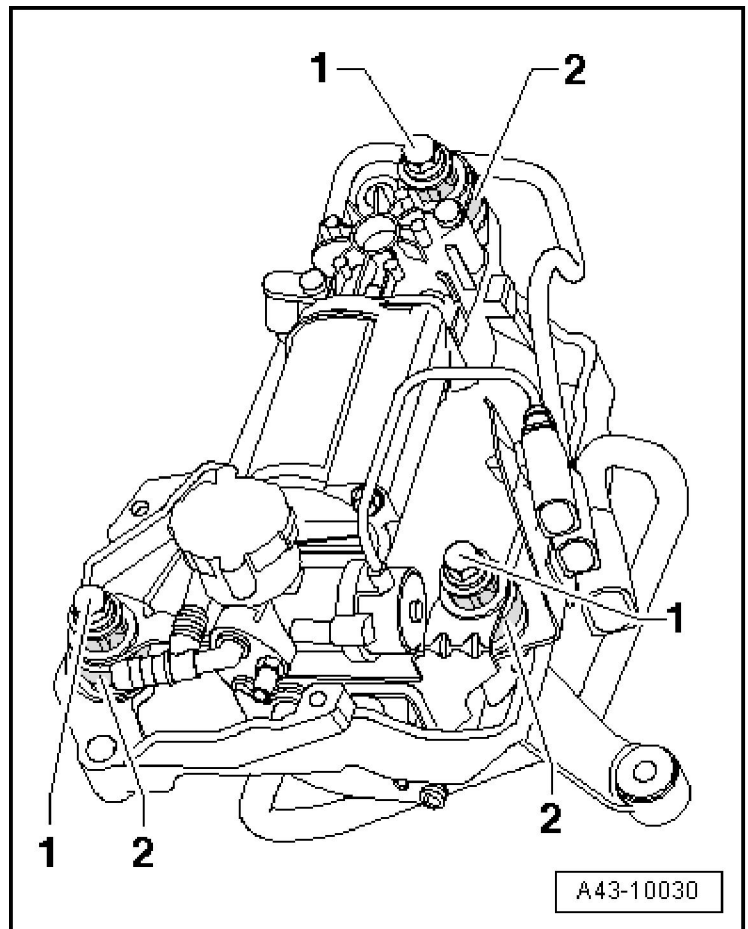
Installing

Installation is in reverse order of removal. Observe

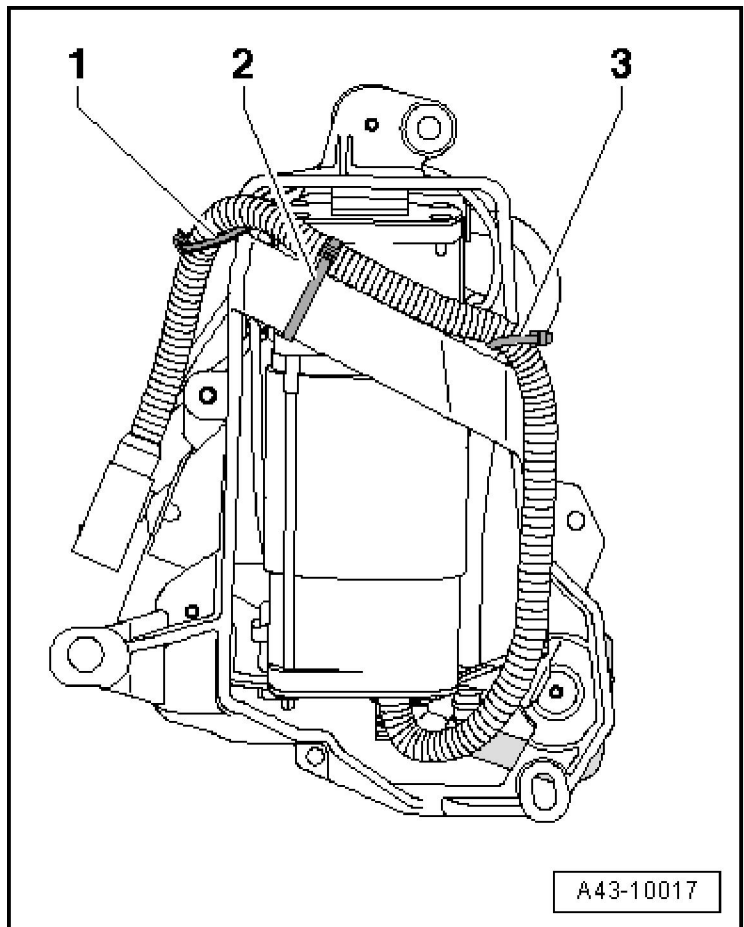
the following when doing so:



- Insert a new rubber bushing -2- in the air supply unit.
- Tighten air supply unit bolts -1- **Item**.



- Replace cable ties -1- through -3- if the air supply unit was separated from the bracket.

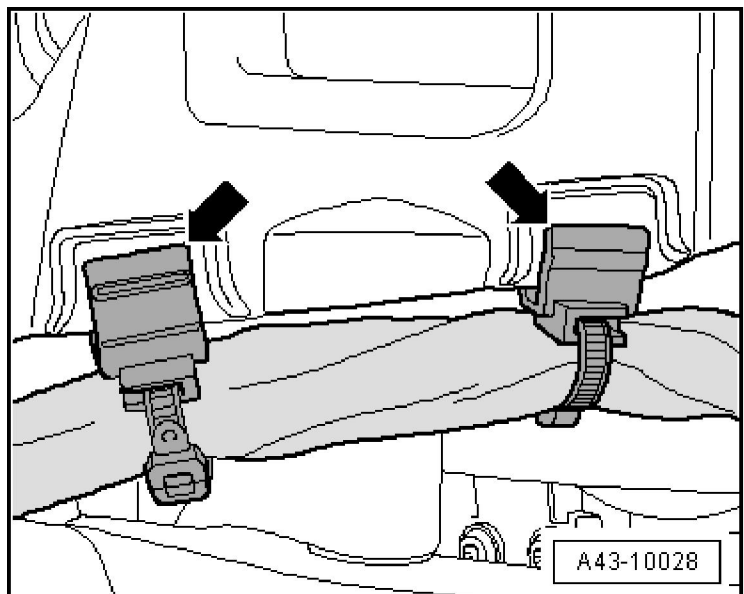


- Install bracket -arrows- on lock carrier.

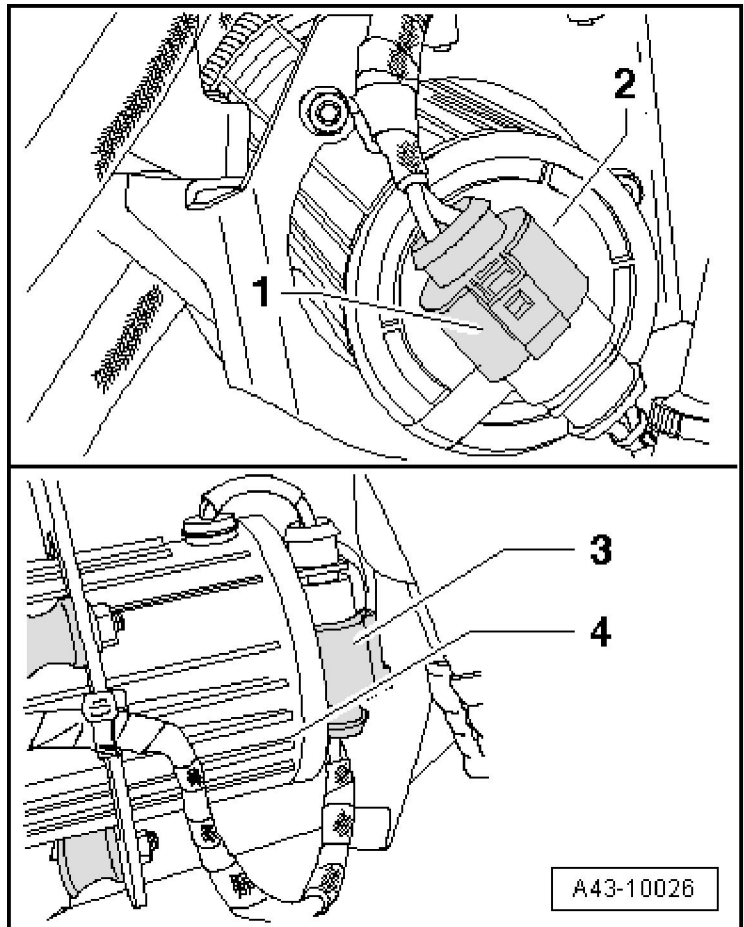


Note

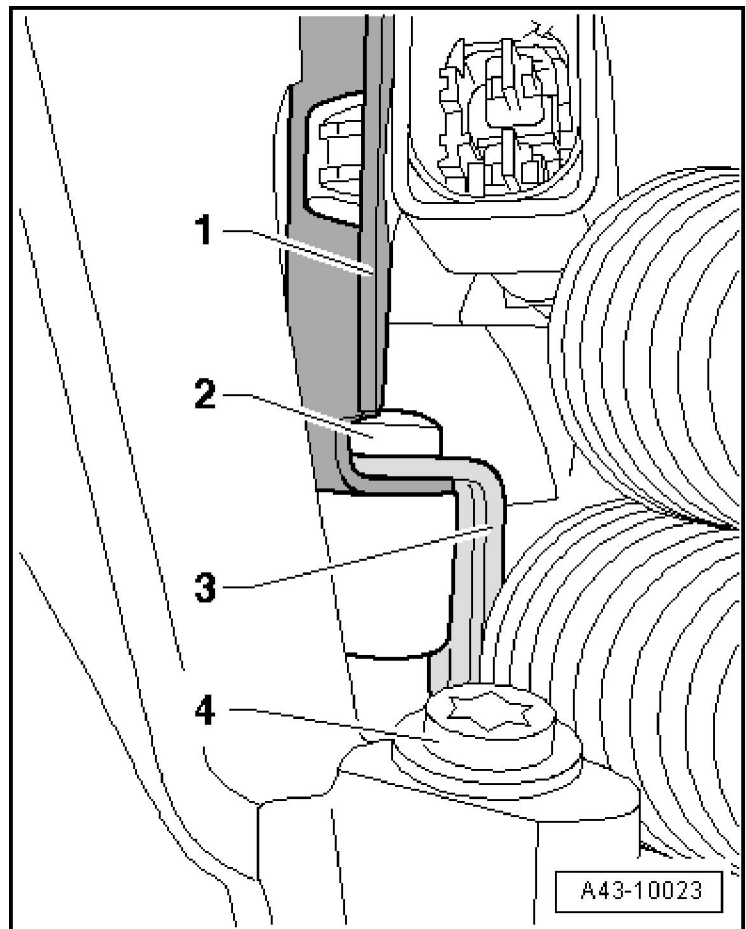
- t *Do not interchange the secondary air injection pump motor -V101- and secondary air injection pump motor 2 -V189-.*
- t *The connector housings are identical and interchangeable.*



- Connect connector -1- on the secondary air injection pump motor 2 -V189--2- and the connector -3- on the secondary air injection pump motor -V101--4-.



- Install air supply unit -1- and reservoir bracket -3- as shown in the illustration.
- Tighten bolts -2- and -4- by hand.



- Tighten air supply unit bolts -1- through -3-
Item.

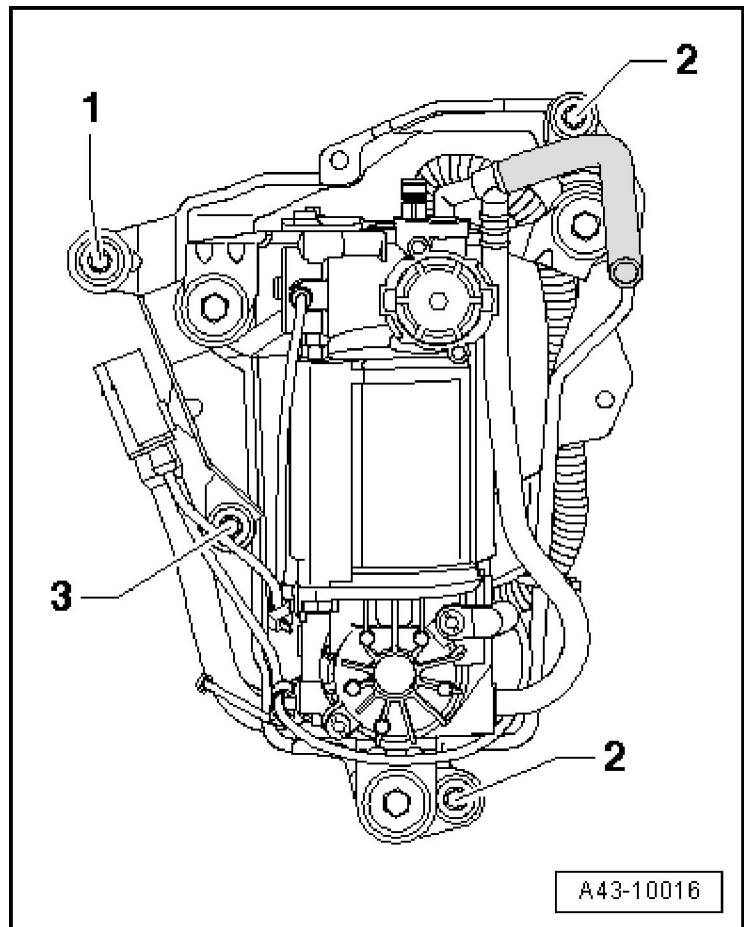
1 - Bolt with washer

2 - Bolt without washer

- Use a Torx T45 socket -V.A.G 1766/1- and
open end wrench to remove and install

3 - Bolt without washer

- for the connector retaining plate and
reservoir bracket



- Replace air intake hose cable ties -arrow-.
- Install A/C line and reservoir [Heating, Ventilation and Air Conditioning; Rep. Gr.87.](#)
- Install left front wheel housing liner [Body Exterior; Rep. Gr.66.](#)
- Install left front headlamp Standard [Electrical Equipment; Rep. Gr.94](#) HID [Electrical Equipment; Rep. Gr.94.](#)
- Install lock carrier [Body Exterior; Rep. Gr.50.](#)
- Install front bumper cover [Body Exterior; Rep. Gr.63.](#)

Follow the safety precautions when connecting the battery [Electrical Equipment - General Information; Rep. Gr.27.](#)

- Connect battery Ground (GND) cable with ignition switched off [Electrical Equipment; Rep. Gr.27.](#)
- Mount wheel and tighten [Wheel and Tire Guide; Rep. Gr.44.](#)
- Fill system [Chapter.](#)

- Place vehicle on wheels **Chapter.**
- Calibrate the adaptive cruise control **Chapter.**

