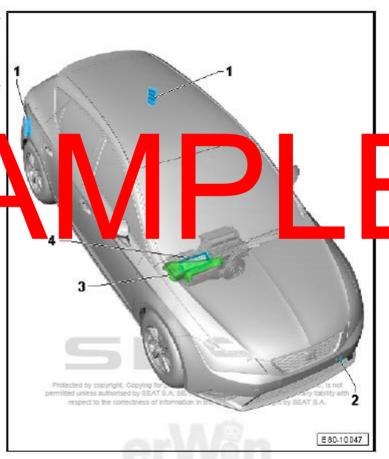
80 - Heating

- 1 Fitting location overview heating
- ⇒ "1.1 Fitting location overview components outside of passenger compartment", page 14
- ⇒ "1.2 Fitting location overview components inside of passenger compartment", page 15
- 1.1 Fitting location overview components outside of passenger compartment
- 1 Exhaust ventilation for passenger compartment
 - ☐ Check: ⇒ page 150
 - □ Removing and fitting ⇒ page 151
- 2 exterior temperature sensor G17-
- Removing and fitting
- ⇒ page 162
- 3 Removil—and fitting ⇒ page 148
- 4 Fres. Ake
 - □ Removir and fi





44 Components in the engine compartment

3

13

1 - Forced de-aeration

- The sealing surface of the de-aeration frame should move freely and close by themselves.
- So that the interior deaeration can function perfectly, the air flow ducts must not be obstructed by the panelling in the boot.
- ☐ Checking

2 - Fresh air intake duct (in the engine compartment)

☐ The fresh air is taken in through the corresponding duct in the engine compartment.

3 - Temperature sender -G89 in the air intake

erature of the measure air intak by the -G89- . Its el connection is o

Drainage an illing

High pr , fillin measuring. Always screw the cap on with the o-ring seal.

5 - Drainage and filling valve

 Low pressure side, only for drainage and meas-

6 - Refrigerant fan control unit -J293-

□ It is activated by the Climatronic control unit -J255-... ⇒ Current flow diagrams, Electrical fault finding and Fitting locations

E87-0133

- Connect the different speed steps for the refrigerant liquid fans.
- □ Different versions are incorporated according to the vehicle equipment. ⇒ Spare parts catalogue
- □ Check: electric unit, Climatronic self diagnostic ⇒ Vehicle diagnosis, testing and information system VAS 5051; -VAS 5051-, Vehicle self diagnosis

7 - Drying resevoir

- Only remove when the refrigerant circuit is empty.
- Removing and fitting

8 - High pressure sender for the air conditioning -G65-

- Operation, removing and fitting
- The measurement from the sender can be seen on the control unit and indication in the function "Read measured value block".
- 9 Thermosensor for outside temperature -G17-
- Removing





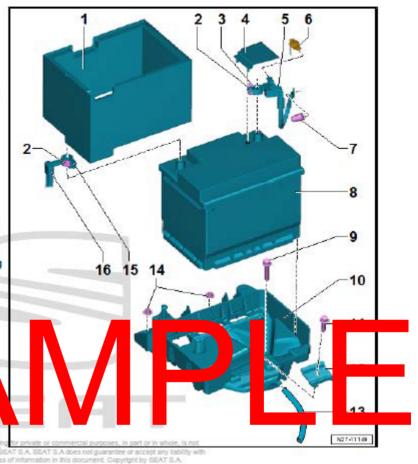
- 1 Dust cap
- 2 Nuts
 - □ 6 Nm
- 3 Battery terminal clamp
 - For earth wire
 - □ Battery: disconnecting and connecting ⇒ page 15
- 4 Cap
 - □ For battery terminal clamp of earth wire
- 5 Earth wire

For vehicles with start/stop system:

- Earth wire additionally with battery monitor control unit - J367-
- Removing and installing earth wire with battery monitor control unit -J367- ⇒ page 22
- Adapting battery moni-tor control unit 1267-
- 6 Electrical conne

icles with rt/stop system

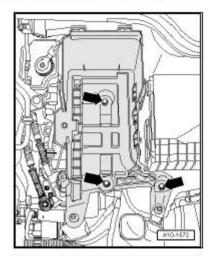
- nonitor co ☐ Fo atte nit
- observe work sequence for disconnecting and connecting battery ⇒ page 15



7 - Nuts

- □ 15 Nm
- 8 Battery:
 - □ Removing and installing ⇒ page 9
 - □ Disconnecting and connecting ⇒ page 15
 - □ Checking ⇒ page 21.
 - □ Charging ⇒ page 21
- 9 Bolt
 - □ 15 Nm
- 10 Battery bracket
 - □ Removing and installing ⇒ page 18
- 11 Bolt.
 - □ 20 Nm
- 12 Clamping plate
- 13 Water drain hose
- Not fitted on all battery trays
 - Route free of kinks when installing

- Remove battery carrier, unscrew securing bolts -arrows- for this.
- Remove the engine cover ⇒ page 3
- Remove fuel filter ⇒ page 187.
- Remove noise insulation ⇒ General body repairs, exterior;
 Rep. gr. 50; Body front; Assembly overview noise insulation.
- Drain coolant ⇒ page 152.
- Extract air conditioning refrigerant ⇒ Heating, air conditioning; Rep. gr. 87.
- Remove lock carrier ⇒ General body repairs, exterior, Rep. gr. 50.

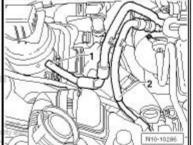


 Open the clamp -arrows- and detach the coolant hoses from the coolant expansion tank.

SAM

Pull off vacuum hoses -1- and -2- for charge air control.



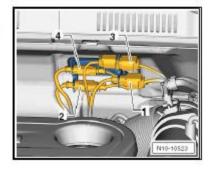


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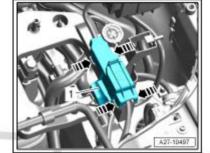
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- Separate connectors for exhaust temperature sender 1 -G235- -1-, for Lambda probe -G39- -3- as well as for exhaust temperature sender 3 -G495- -2- and for exhaust temperature sender 4 -G648- -4-.
- Cut through cable tie of the cables.
- Remove the line from the bracket on the front side of the plenum chamber and from the exhaust gas turbocharger.





- Disengage catches -arrows-.
- Remove cap -1-.



- Unbolt battery positive tap -6-.
- Remove wire -7-, and lay it to one side.
- Remove the cover -2-, by levering.
- Remove nuts -1 and 5-.
- Remove wires -3 and 4-, and lay them to one side.



- Unscrew to
- lightly lift m
- Release the cable harness.
- Remove mounting.

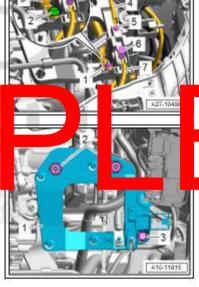
Installation

Installation is carried out in the reverse order; note the following:

Connect battery ⇒ page 15.

Specified torques

⇒ "2.1 Assembly overview: jump start point", page 25





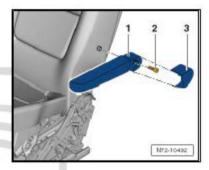
6.7 Removing and installing

Removal:

- Pull cap -3- off the arm rest.
- Remove bolt -2- (20 Nm) and remove armrest.

Installation

- Installation is carried out in reverse order.



Removing and installing trim of backrest operating lever

Removal:

- Press backrest operating lever forwards and undo screws
 2- (1.5 Nm).
- Ren e the trim a backrest of ting lever ward from backres at

stallation

- Ins. ion is ried our revers orde



6.9 Removing and installing backrest cover panel

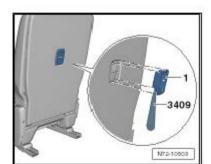
Removal:



Note

Removal and installation can be carried out with the seat installed.

 Release top-tether hider -1- with removal wedge - VAS 3409and top and bottom and pull out.





80 - Heating

- 1 Heating: repairs
- 1.1 Heating of the vehicle interior



WARNING

Before working on the electrical system, disconnect the battery earth strap.



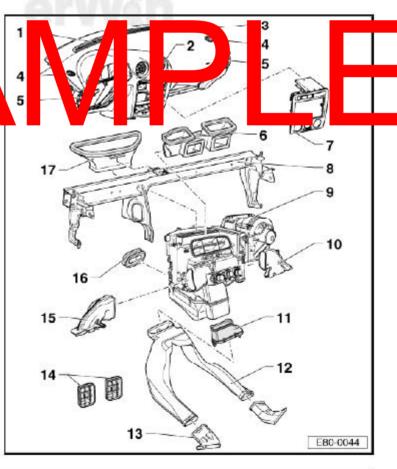
Note

- Before disconnecting the battery, check the radio anti-theft code. Disconnecting the battery ⇒ Electrical system; Rep. Gr. 274 Battery: disconnecting and connecting acceptant to the battery.
- If the battery is re-connected, the vehicle equipment must be checked (radio, clock, electrical comfort system etc.), following the instructions in the Repair Manual and/or Owner's Manual.

De icing vent

- the windso A de-
- Removing a ritting soldywork, i rior fit y Rep da boar ashboard
 - ashin fintermediate piece between heater unit and air duct in instrument panel on installing instrument panel will result in irregular or inadequate air flow to windscreen. ⇒ Bodywork, interior fitting work; Rep. Gr. 70; dashboard dashboard: removing
- 2 instrument panel nozzle, central
 - □ Removal and installation <u>⇒ page 4</u>
- 3 Instrument panel
 - □ Removal and installation ⇒ Bodywork, interior fitting work; Rep. Gr. 70
- 4 Side window nozzle
 - Carefully remove it by levering with the remov-





End

1.4 Step 4 (There are no metal particles in fuel delivery unit and fuel tank)

- Fill fuel tank with 5 litres of diesel fuel.
- Completely empty fuel tank again as described above ⇒ page 7.



Caution

When the fuel metering valve - N290- is removed, there is the risk of damage to the high-pressure pump by the ingress of dirt from the outside. Scrupulous cleanliness must therefore be ensured.

- Carefully clean high-pressure pump in vicinity of fuel metering valve - N290-.
- Detach connector from valve.
- Unscrew bolts -arrows- and carefully remove fuel metering valve - N290- .
- Metering valve N290- and little pressure pursuant.

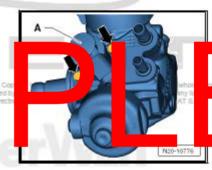
M | particles found?

⇒ "1.5 Ste. There a mote vicides hig view re recorded to the steel of the steel of

pump)", page 15

Step 5 (There are metal particles in highpressure pump)

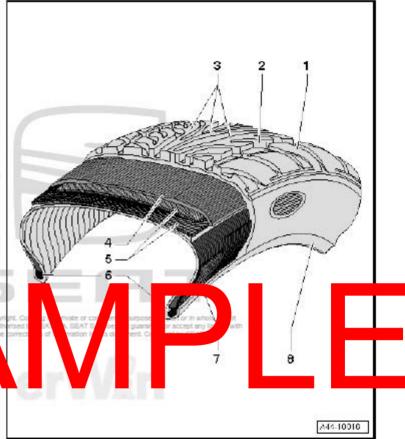
- Renew following high-pressure components:
- High-pressure pump ⇒ Rep. gr. 23; High-pressure pump: Removing and installing high-pressure pump.
- High-pressure lines ⇒ Rep. gr. 23; Injectors/high-pressure accumulator (fuel rail): Removing and installing high-pressure lines.
- High-pressure accumulator (fuel rail) including fuel pressure regulating valve - N276- and fuel pressure sender - G247- ⇒ Rep. gr. 23; Injectors/high-pressure accumulator (fuel rail): Removing and installing high-pressure accumulator
- Injector ⇒ Rep. gr. 23; Injectors/high-pressure accumulator (fuel rail): Removing and installing injectors.
- Injector ⇒ Rep. gr. 23; Injectors/high-pressure accumulator (fuel rail): Removing and installing injectors.
- Fuel filter ⇒ page 49
- Fill up vehicle.
- Blees field system ⇒ Rep. gr. 23; Injection system; Filling/ bleed by fuel system.





FIRE Tenadrive Vehicle.

- 1 Tread block
- 2 Tread groove
- 3 Tread
- 4 Nylon wheel ring
- 5 Layers of belt
 - generally steel
- 6 Bead
 - Formed of steel cables vulcanised on the compound
 - They ensure secure seating of the tyre on the rim.
- 7 Bead reinforcement
- 8 Rim contour guard
 - This provides protection against wear to the rim and tyre from chafing against the curb, etc.
 - Tyres with rim conds



The nylon ring -4-, the layers of belt -5-, the bead -6- and the bead reinforcement -7- form the carcass. The carcass is the "frame" which supports the tyre.

10.3 Damage from impacts

Bulging on the tyre sidewalls is generally a sign of a break in the steel cables on the interior of the tyre.

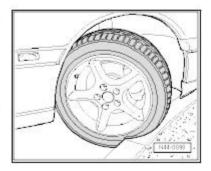
The usual cause of this type of damage is a knock at a sharp angle against a curb, for example.

Tyre carcasses flattened in this way may be damaged.

In these cases, the interior part of the tyre is strained until some of the carcass threads break.

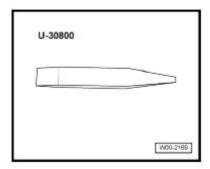
The severity of the damage depends upon the speed of collision, the angle of collision, the tyre pressure, the axle load and the type of obstacle.







Release lever - U30800-



removing

Switch off ignition and all electrical equipment.

Vehicles without access and start authorisation system

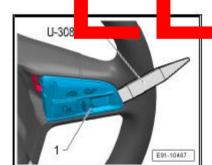
Remove ignition key, if fitted.

Vehicles with access and start authorisation system

 Store ignition key outside the vehicle to prevent the ignition from being switched on unintentionally.

orna d for all vehi

- Remove driver a page General property repairs, if ear; Regr. 69; Driver a page ag; a poving a fill alling a page nit w
- Take nnec of their uide in s erin wheel
- Clips the Alti-function tons with wedg



- At the same time, pay attention to connectors leading to Tiptronic switches -2-.
- Release and detach the plug connectors of the multi-function buttons.



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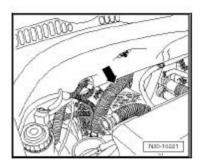




Right-hand drive vehicles

In some vehicles, master cylinder is located behind a line for air conditioning system -arrow-.

An insulation mat is installed in conjunction with some engines. Appearance may be different from that illustrated.



- Remove the insulating element -arrows-.

Continuation for all vehicles





- the owing work nsure fluia nds o at n nember or ge a thoroughly. idin OX. nis do ppen, an th ted a
- Place a lint-free cloth under the master cylinder.
- Clamp off supply hose to master cylinder using hose clamp -3094- .
- Disconnect supply hose -1- from master cylinder.
- In addition, for disconnecting, you can close it with the sealing tool - T10249/1- (⇒ figure above).
- Disengage the safety fastener -2- with a screwdriver or tipped object, and uncouple the pipe and hose assembly -3- from the clutch master cylinder.

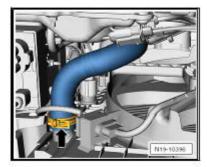


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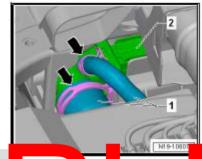
With several master cylinders, the securing clip -2- can also be pulled out to the side.



Open spring-type clip -arrow- and pull off coolant hose down-



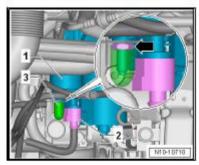
- Open spring-type clips -arrows-.
- Pull coolant hose -1- off radiator -2-.



- elease retaining clips
- lant hoses -1change hear



- Release and pull off connector -2- on starter -1-.
- Pull off protective cap -3-.
- Unscrew nut -arrow- and remove line from starter -1-.





- Pull air filter housing upwards off studs at positions -2- and -3-
- Press the air filter housing with intake connecting pipe from the mount -4- in the -direction of the arrow-.
- Remove air filter housing from the engine compartment.



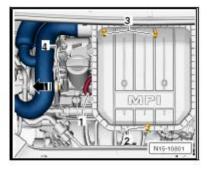
Always observe

Safety precautions when working on ignition system", page

- Release push-fit connector -1- and pull off.
- Loosen bolts -2-.



Tighten knur





Pull ignition coil out of camshaft housing in -direction of arrow- using puller - T10530- .

fitting

Installation is in the reverse sequence of removal. The following must be taken into account:

- Fit all ignition coils loosely into spark plug holes.
- Align the ignition coils with their connectors, and connect all the connectors to the ignition coils at the same time.
- Press ignition coils onto spark plugs by hand evenly (do not use tool).
- Tighten securing bolt with the torque wrench VAS 6854- and specified torque ⇒ page 256.

Specified torques

Torque setting	
8 Nm	\neg
	Torque setting 8 Nm

