



## 10 – Engine Assembly

### 1 Engine, Removing and Installing

⇒ [“1.1 Engine, Removing”, page 6](#)

⇒ [“1.2 Engine, Securing on Engine and Transmission Holder”, page 20](#)

⇒ [“1.3 Engine, Installing”, page 21](#)

#### 1.1 Engine, Removing

##### Special tools and workshop equipment required

- ◆ Engine Sling - 2024A-
- ◆ Engine Support Bridge - 10-222A-
- ◆ Engine/Gearbox Support Shackle (2 pc.) - 10-222A/12-
- ◆ Pry Lever - 80-200-
- ◆ Engine and Gearbox Jack - VAS6931-
- ◆ Shop Crane - VAS6100-
- ◆ Engine Bung Set - VAS6122-
- ◆ Shop Crane - Drip Tray - VAS6208-
- ◆ Hose Clip Pliers - VAS6362-
- ◆ Locking Pin - T10060A-
- ◆ Engine/Gearbox Jack - Gearbox Support - T10337-
- ◆ Belt Tensioner Locking Tool - T40098-
- ◆ Reversing Light Switch Connector Release Tool - T40138-

##### Procedure



##### WARNING

*Risk of vehicle tipping over with engine removed.*

- ◆ *Secure vehicle. Luggage compartment must be empty for this.*



##### Note

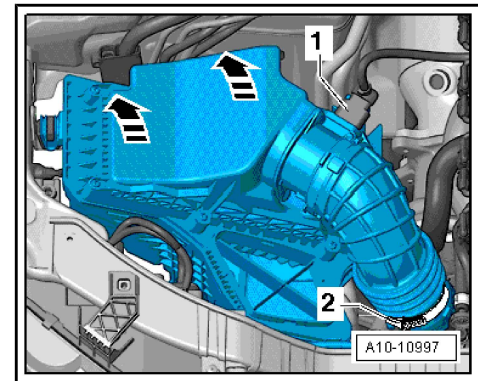
- ◆ *Remove the engine without the transmission upward.*
- ◆ *Collect escaping coolant in a clean container for disposal or reuse.*
- ◆ *When installing, bring all cable ties back to same positions.*
- ◆ *In order to be able to turn the driveshaft on an AWD vehicle to remove it, release the electro-mechanical parking brake before disconnecting the battery.*
- ◆ *Always seal off any open channels in the intake and exhaust tract with suitable plugs. For example, from the Engine Bung Set - VAS6122-.*

**Caution**

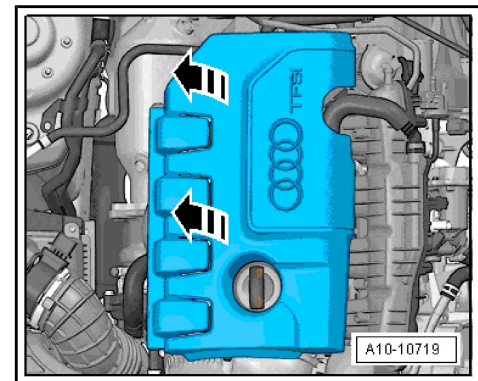
***Risk of damaging electronic components when disconnecting the battery.***

◆ ***Observe the steps for disconnecting the battery.***

- Disconnect the battery. Refer to ⇒ Electrical Equipment; Rep. Gr. 27 ; Battery; Battery, Disconnecting and Connecting .
- Remove the left and right front wheels.
- Remove the left and right front wheel housing liners. Refer to ⇒ Body Exterior; Rep. Gr. 66 ; Wheel Housing Liner; Overview - Front Wheel Housing Liner .
- Remove the noise insulation. Refer to ⇒ Body Exterior; Rep. Gr. 66 ; Noise Insulation; Noise Insulation, Removing and Installing .
- Perform a service position. Refer to ⇒ Body Exterior; Rep. Gr. 50 ; Lock Carrier; Service Position, Performing and Resetting .
- Remove the front exhaust pipe/front muffler. Refer to ⇒ ["1.2 Front Exhaust Pipe, Removing and Installing", page 374](#) .
- Disconnect the connector -1- from the Mass Airflow Sensor - G70- .
- Loosen the air intake hose -2-.
- Remove the air filter housing upward in direction of -arrows-.

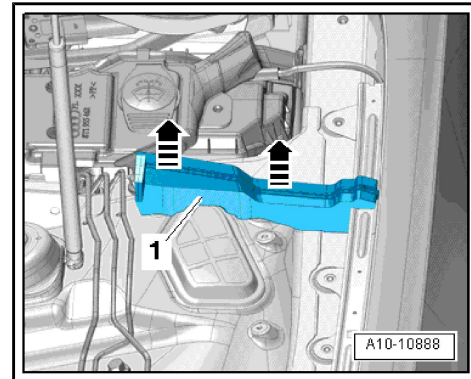


- Remove the engine cover in direction of -arrows-.
- Remove the plenum chamber cover. Refer to ⇒ Body Exterior; Rep. Gr. 50 ; Bulkhead; Plenum Chamber Cover, Removing and Installing .

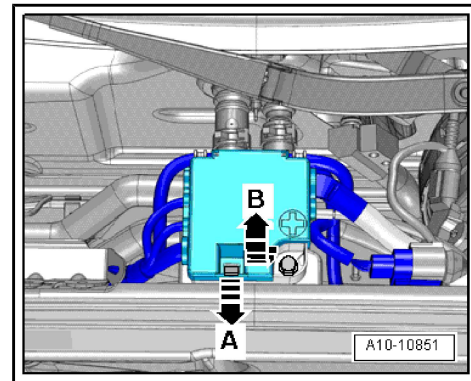




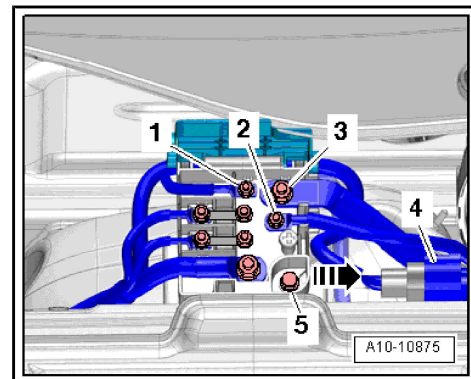
- Remove the left and right foam block -1- upward in direction of -arrows-.



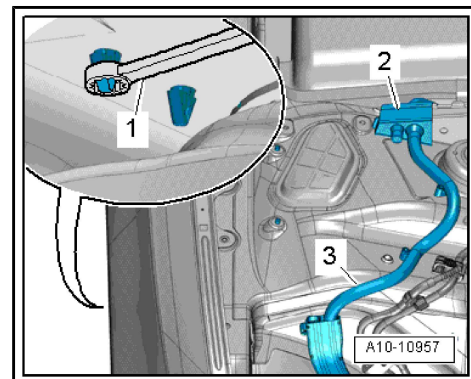
- Releases the retainer in direction of -arrow A- and open the cover in direction of -arrow B-.



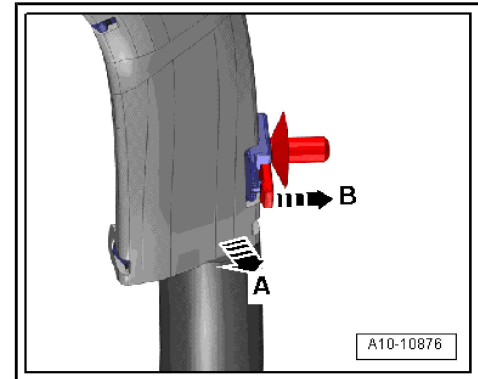
- Remove the nuts -1 through 3- for the wires.
- Remove the connector -4- from the bracket and disconnect it.
- Remove the bolt -5- and remove the wire junction from the tower brace in direction of -arrow-.



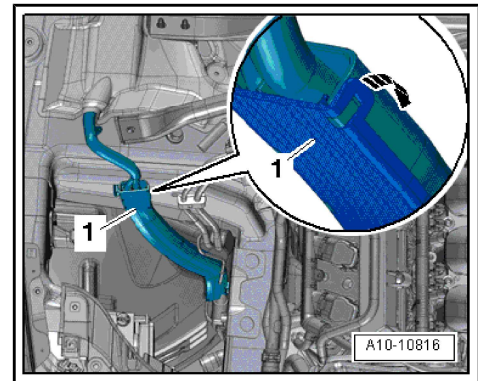
- Release the retainers from the wheel housing side using a 5.5 mm open end wrench -1- and remove the wiring bushing -2- upward.



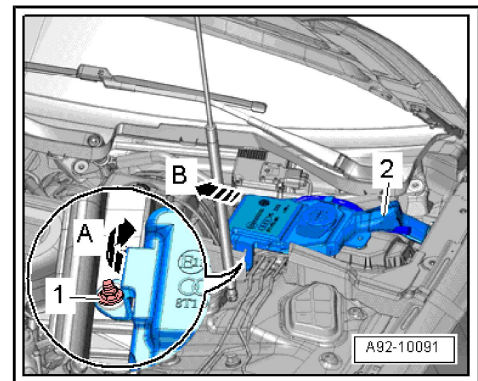
- Wiring duct version 1: unlock the retainer and free up the wiring duct in direction of -arrow B- and pull the duct forward in direction of -arrow A-.



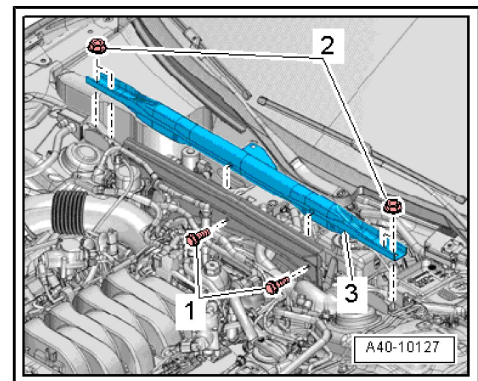
- Wiring duct version 2: unlock the retainer in direction of -arrow-, free up the wiring harness and open the wiring duct -1-.



- Remove the nut -1- and tilt the washer fluid filler neck upward in direction of -arrow A-.
- Remove the filler neck -2- with the filler tube from the washer fluid reservoir and the opening in the body in direction of -arrow B-.



- Remove the bolts -1- and nuts -2- and the tower brace -3-.

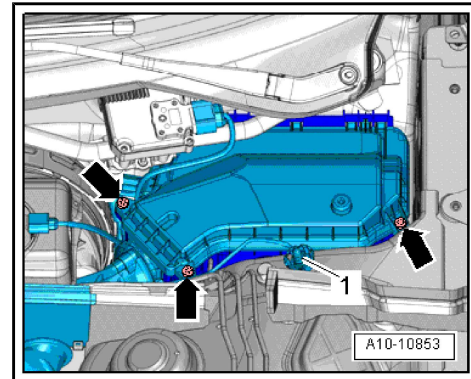




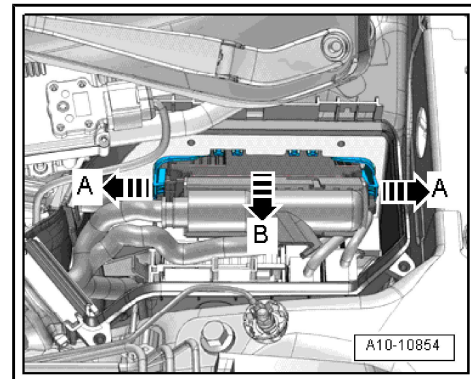
Audi A4 2008 ➤ , Audi A5 Cabriolet 2009 ➤ , Audi A5 Coupé 2008 ➤

**Audi** 4-Cylinder Direct Injection 1.8L, 2.0L 4V Engine (Generation II) - Edition 09.2015

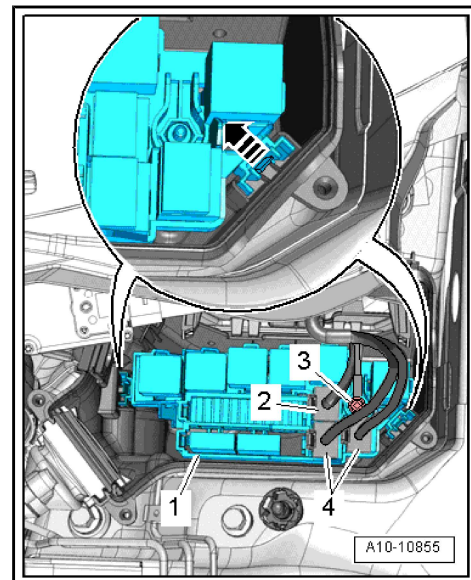
- Remove the bolts -arrows- and the engine compartment E-box cover.
- Remove the nut -1- and free up the wire.



- Release the retainers in direction of -A arrows- and remove the Engine Control Module (ECM) in direction of -arrow B-.
- Disconnect the connectors -4- and remove the nut -3- for the electrical wire.
- Disconnect the connector -2- if applicable.



- Release the retainers in direction of -arrow- and remove the relay carrier with the fuse holder -1-.



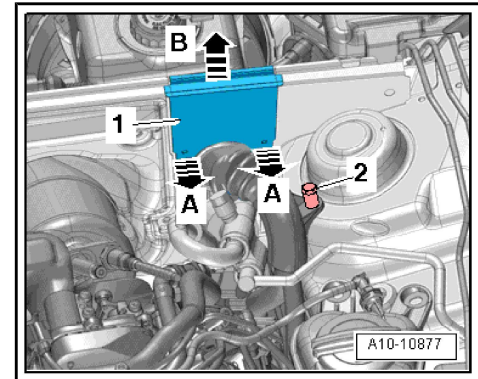


- Release the retainers in direction of -A arrows- and remove the wiring bushing -1- upward in direction of -arrow B-.
- Disengage the engine wiring harness at the engine compartment E-box and free it up.
- Lay the wiring harness on the engine and secure the ECM so that it cannot fall.

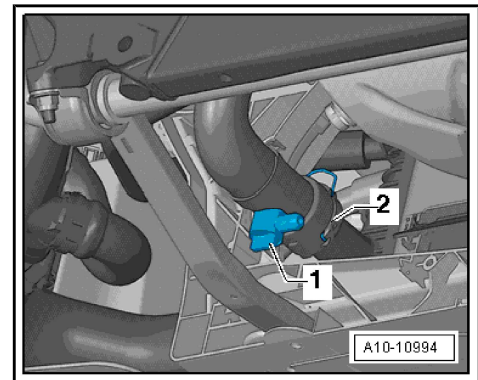
**WARNING**

*Risk of scalding due to hot steam and hot coolant.*

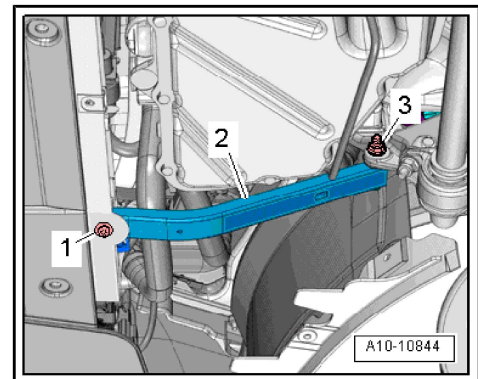
- ◆ *The coolant system is under pressure when the engine is warm.*
- ◆ *Cover the coolant reservoir cap with a cloth and then open it slowly to release the pressure.*



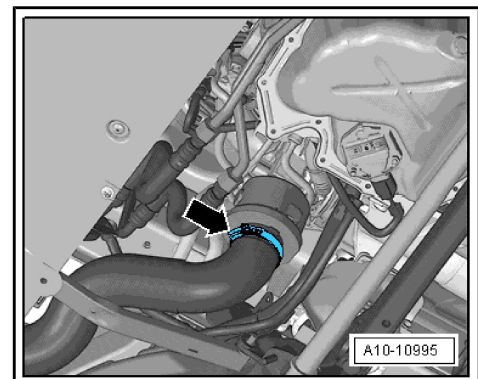
- Open the coolant reservoir cap.
- Place the Shop Crane - Drip Tray - VAS6208- under engine.
- Open the drain -1- and let the coolant drain out and then remove the connection -2- from the radiator.



- Remove the left and right nuts -3- and remove the longitudinal braces -2-.



- Loosen the hose clamp -arrow-, pull off the air guide hose and move it to the side.

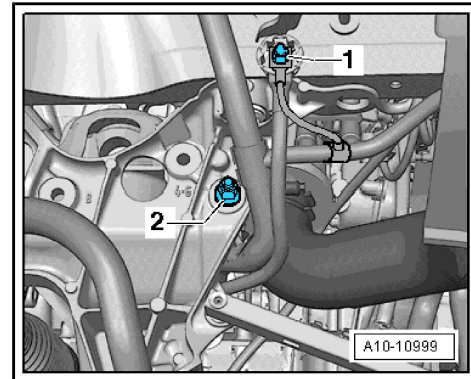




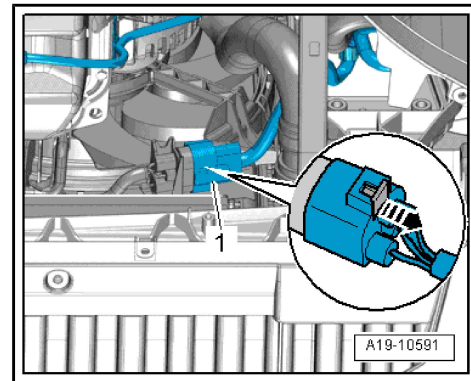
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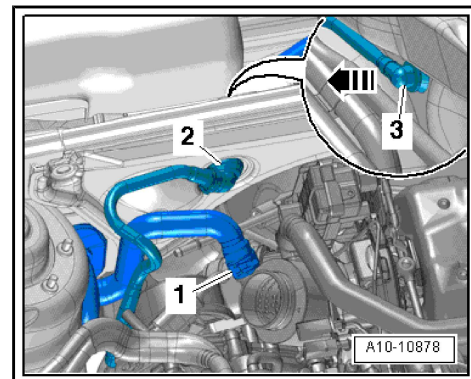
- Remove the nut -1- on the right longitudinal member and free up the Ground (GND) wires.
- Remove the nut -2- for the bracket with the electrical wires on the right side of the vehicle.



- Disconnect the coolant fan connector -1- by sliding the retainer back in direction of -arrow- and pressing the release down.
- Lay the wiring harness on the engine and secure it from falling down.



- Disconnect the vacuum connection -2- from the plenum chamber bulkhead by remove the vacuum hose -3- on the back side in direction of -arrow-.



- Remove the nut -5-.
- Remove the coolant hoses -1 through 4- and remove the plenum chamber bulkhead.

