

#TL100141

INSTALLATION MANUAL

MS100207,211

APR EA839 High Pressure Fuel Pump (HPFP)



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Notes:

These instructions were written for a North American specification B9 RS5, but other models, like the RS4, S4, S5, S6, and S7 are similar.

When disassembling the car, be sure to keep all fasteners so they can be reused. It is recommend that you get some kind of compartmented tray to organize the fasteners, such as a fishing tackle box or several large ice cube trays. Fasteners that are not reused for reinstallation are noted in the instructions. All directions used in this manual (right, left, front, etc.) are based on if you were sitting in the drivers seat of the car.

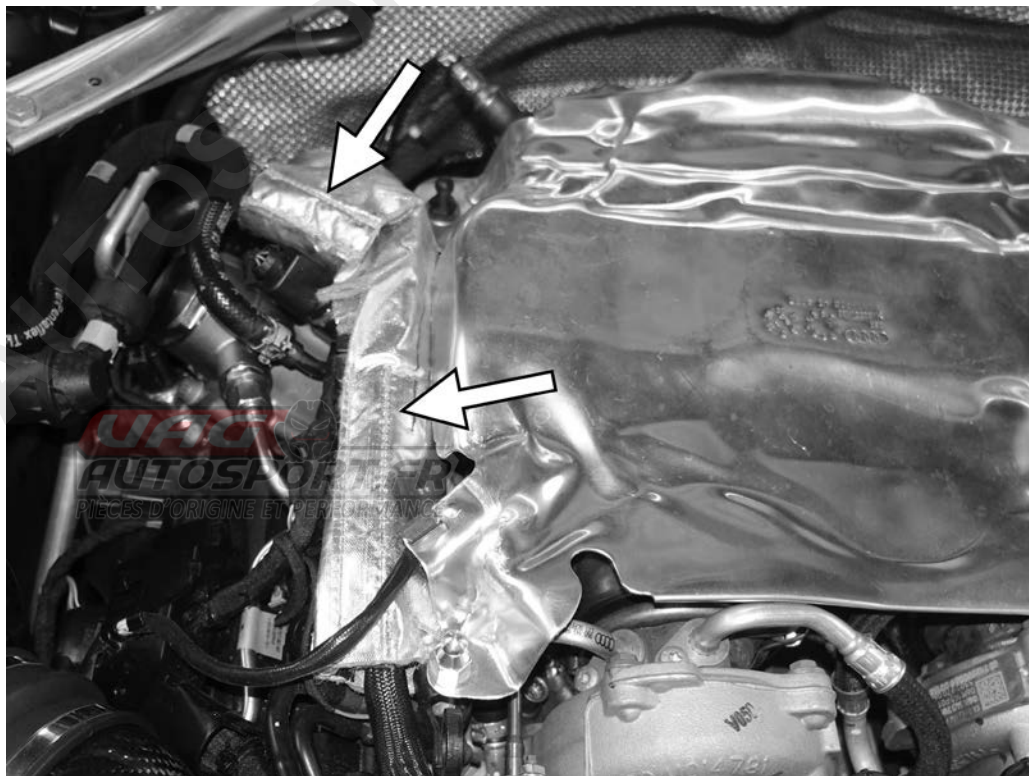
These instructions assume that you have basic mechanical skills and several varieties of basic hand tools in order to install the kit. If you have any questions about the install, feel free to contact your APR representative.



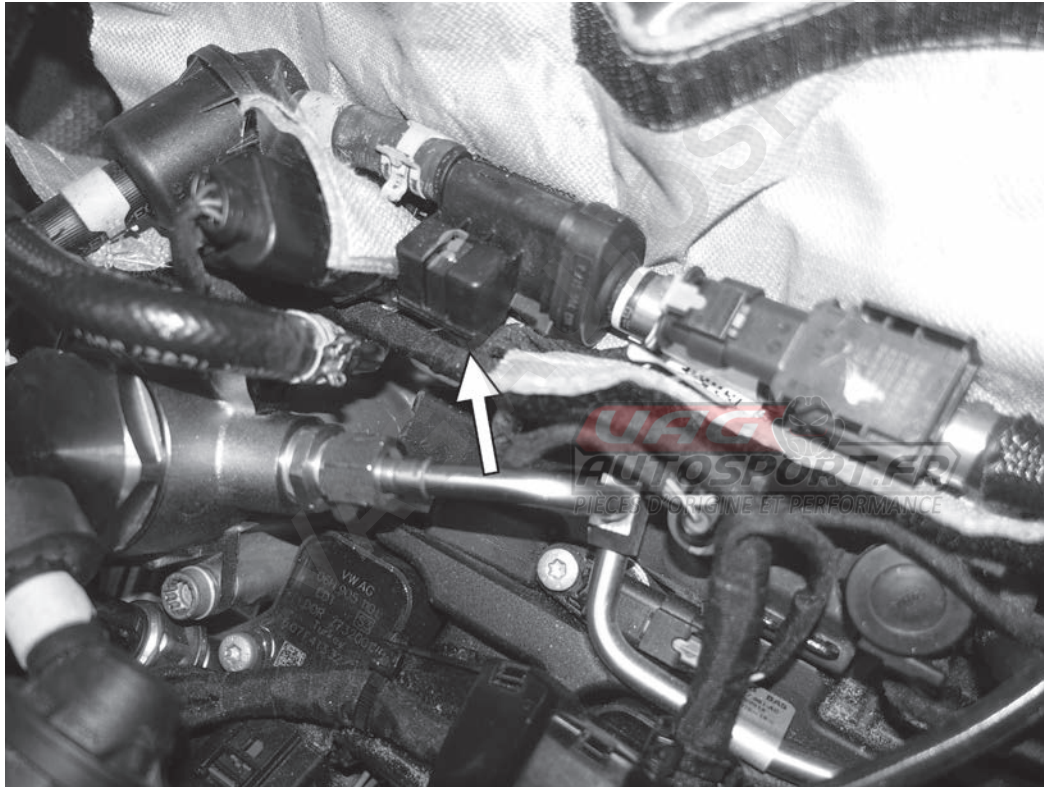
1) Raise the hood and remove the engine cover by pulling up on each of the four corners of the cover.

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2) On the flexible heat shield along the right side of the engine, separate the velcro on the heat shield, exposing the N80 valve assembly underneath.

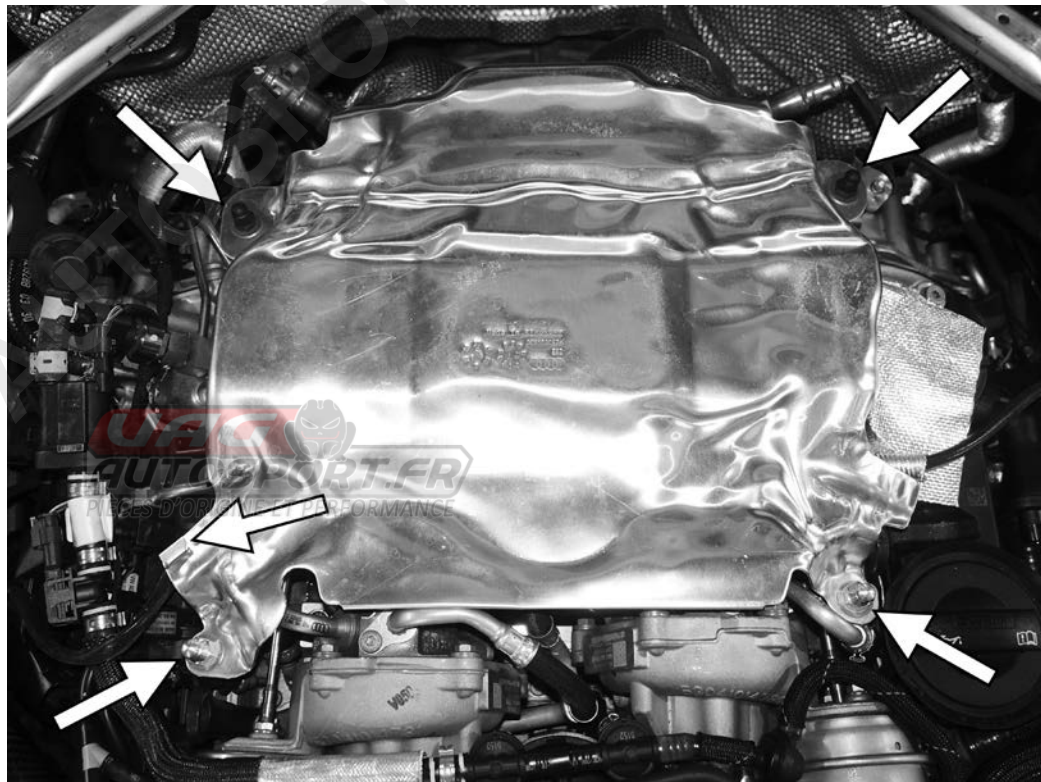


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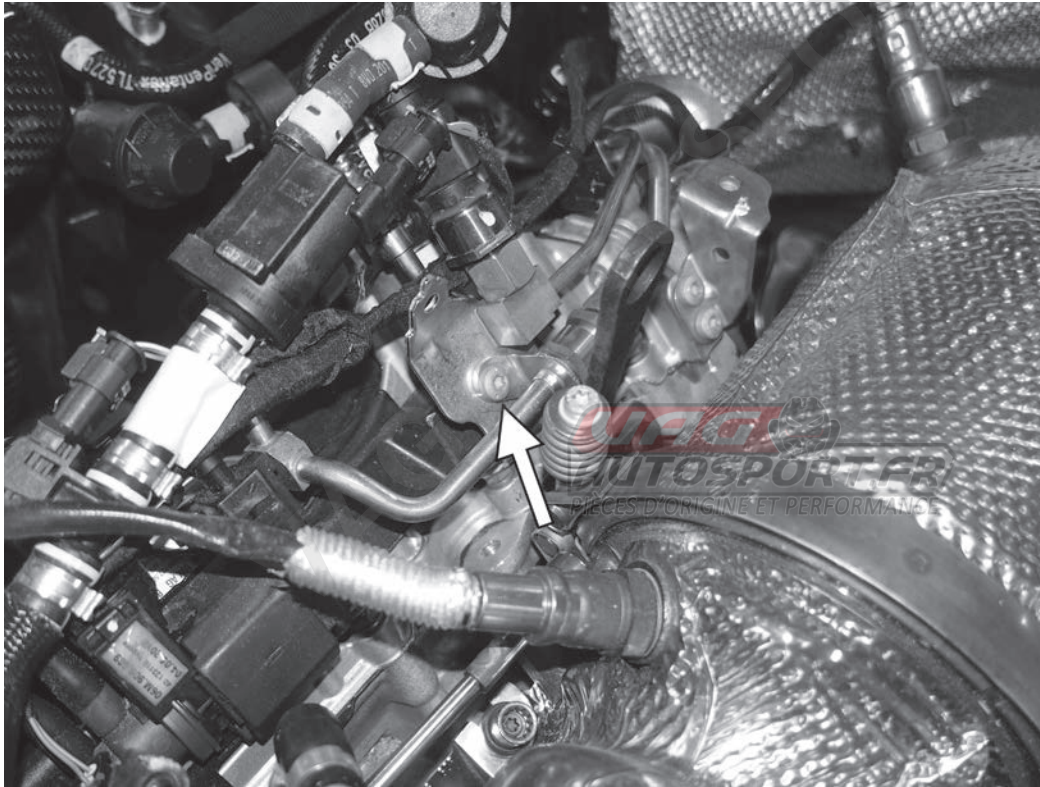


3) Carefully lift the N80 valve off its mounting location, and remove the flexible heat shielding from the car.

4) Remove the four 13mm screws that held the engine cover mounting posts to the engine. Separate the metal clip for the oxygen sensor harness from the front right of the metal heat shield. Once removed, lift and remove the metal heat shield from the top of the engine.



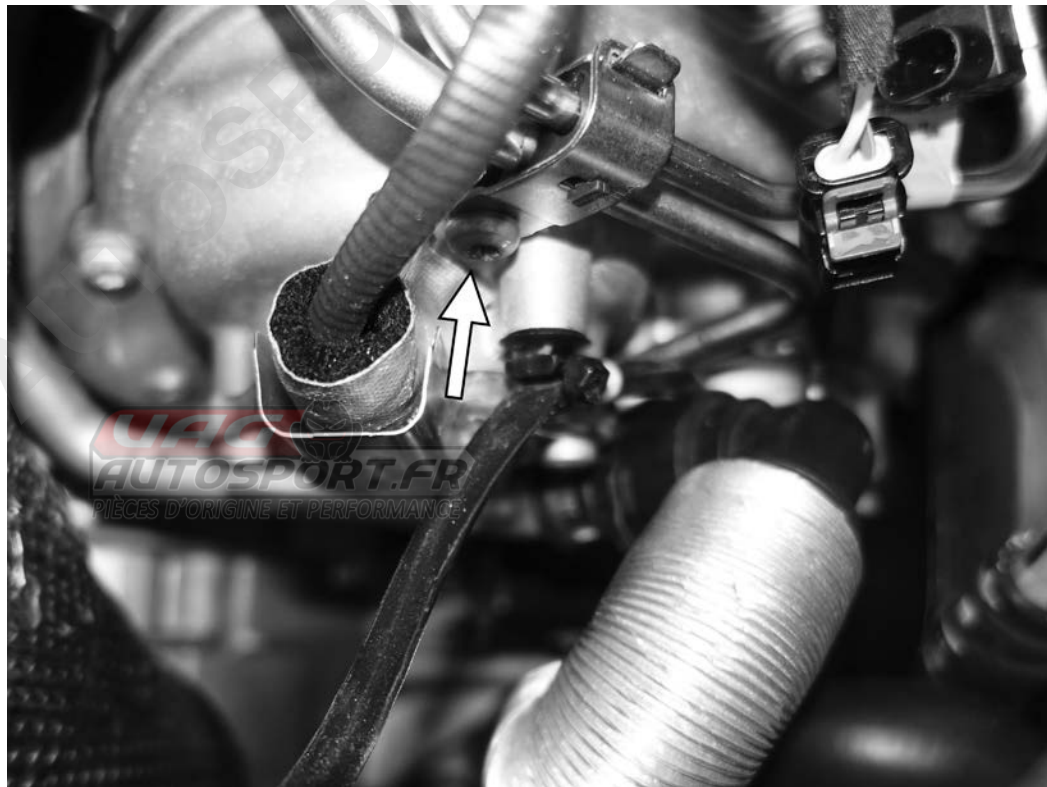
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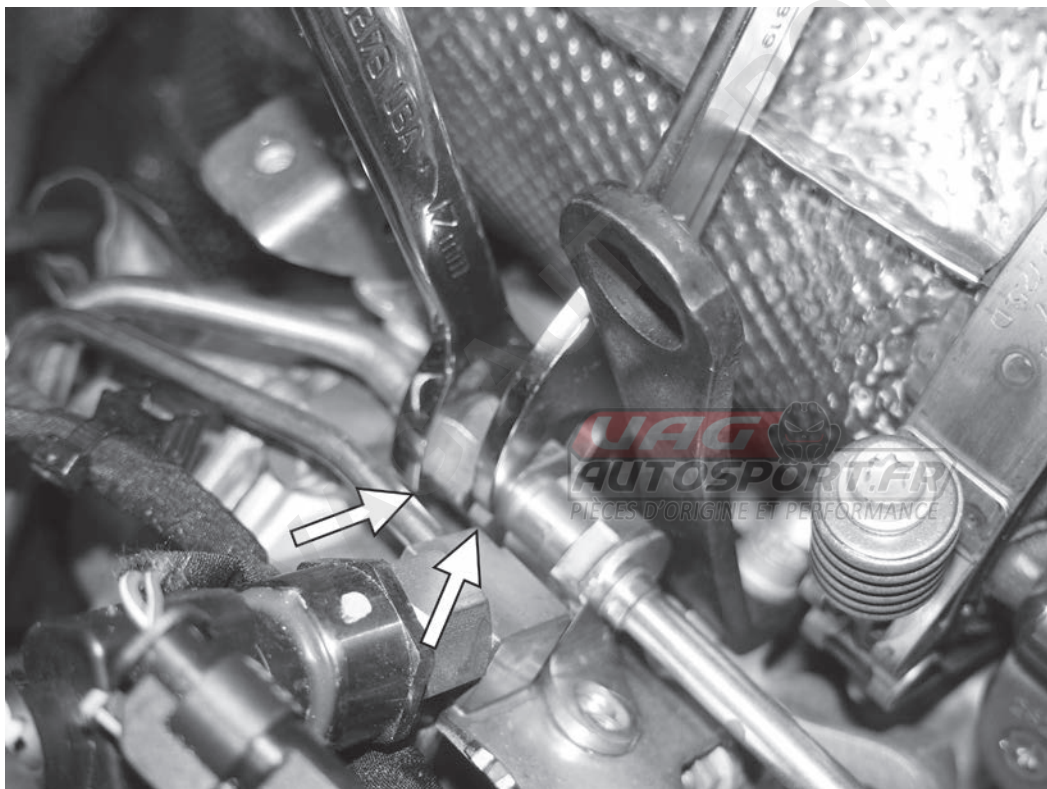
5) Remove the T30 screw holding the fuel rail to the top of the right cylinder head. This screw is also just below the N80 valve mounting location.

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6) From the back of the right cylinder head, remove the T30 screw holding the fuel rail bracket. Remove the bracket and rubber grommet from the car, being careful not to drop it.



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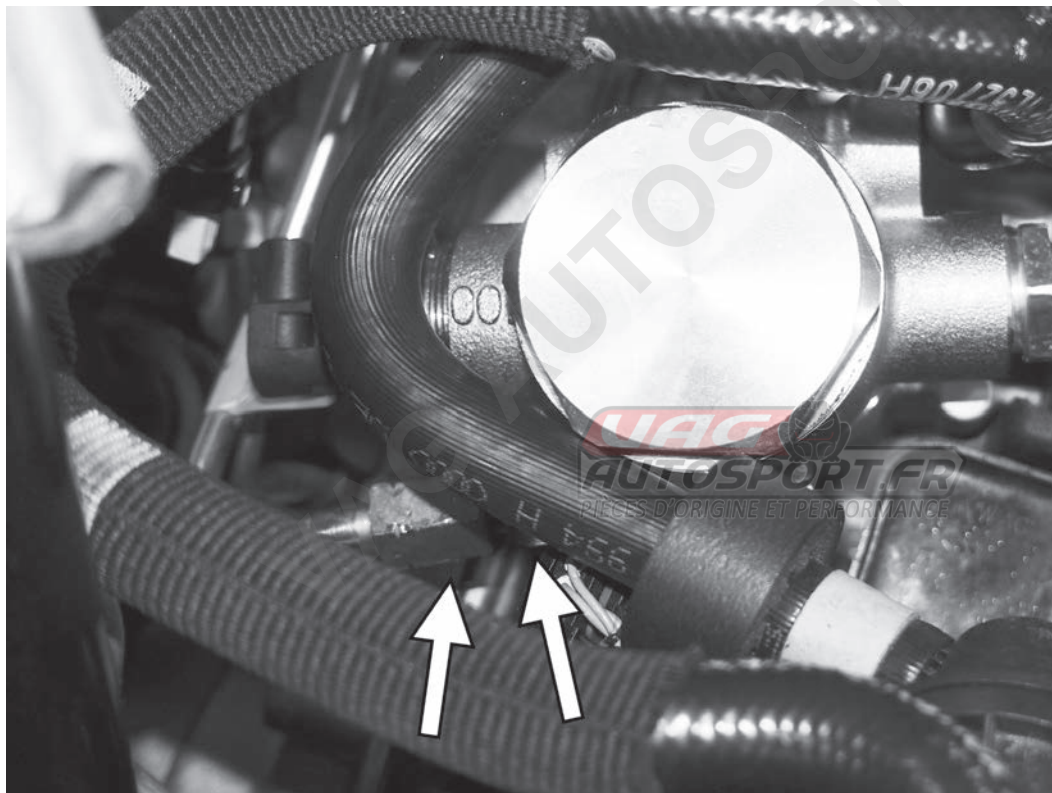


7) On the fuel line above the cylinder head next to the catalyst, hold the 19mm brass fitting with an open end wrench, while loosening the rear 17mm line from the fitting.

8) Remove the fuel line going into the front of the fuel pump. Hold the 19mm brass fitting while loosening the 17mm fuel line.



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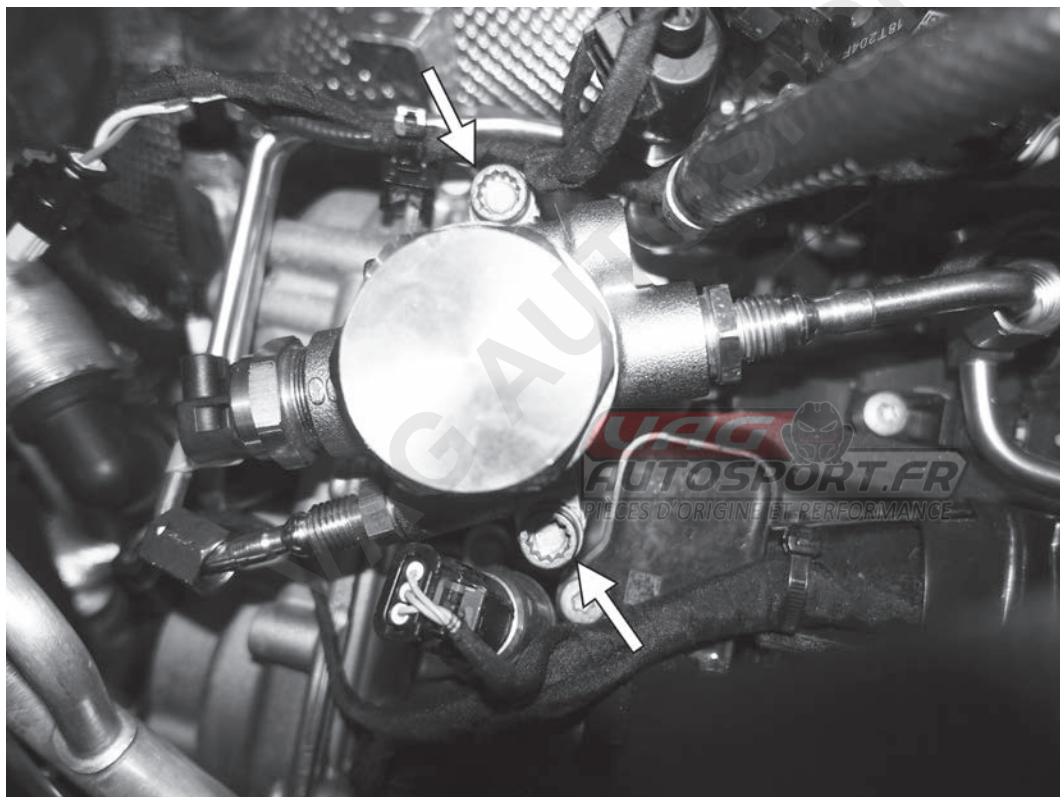


9) On the back side of the fuel pump, hold the 17mm brass fitting, and then remove the 14mm fuel line.

10) Disconnect the electrical connector on the fuel pump. Slide the locking tab away from the connector, and then press down on the locking tab to release the connector.



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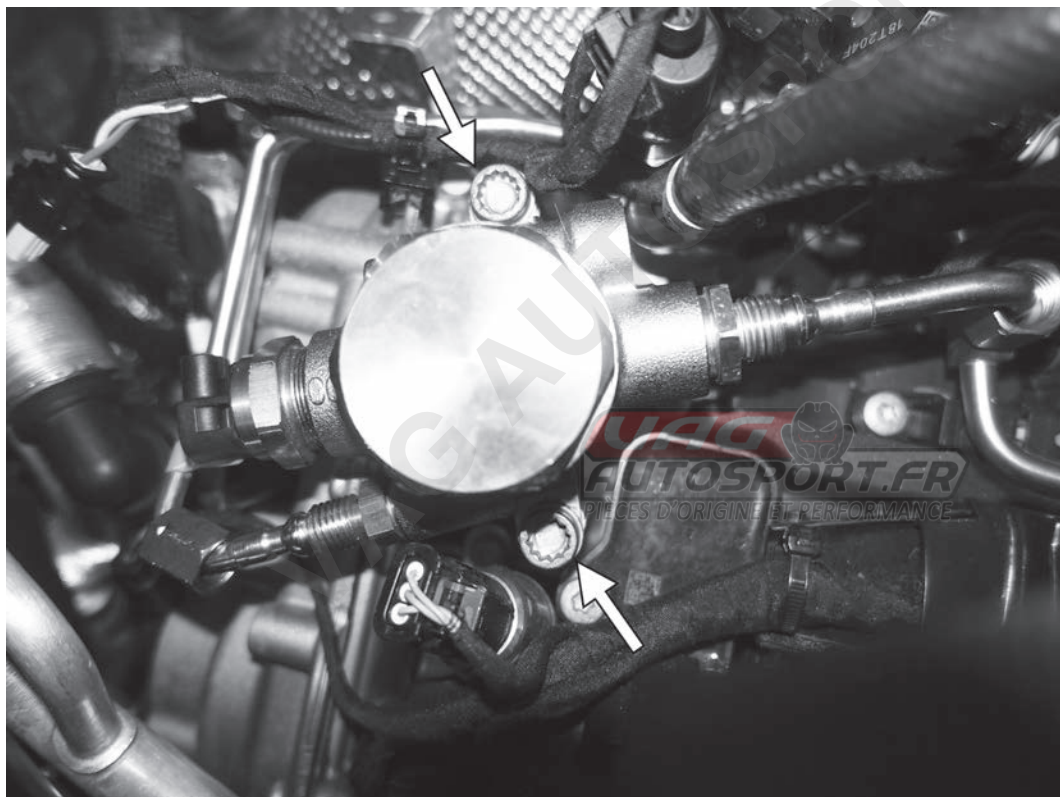


11) Using a 10mm triple square socket, begin to loosen the fuel pump from the top of the cylinder head. Be sure to go back and forth between the two bolts instead of trying to completely remove one bolt at a time. This will slowly release the tension of the spring on the fuel pump.

12) Once both screws are removed, rock the fuel pump towards the front of the engine, and then lift it away and off the engine.



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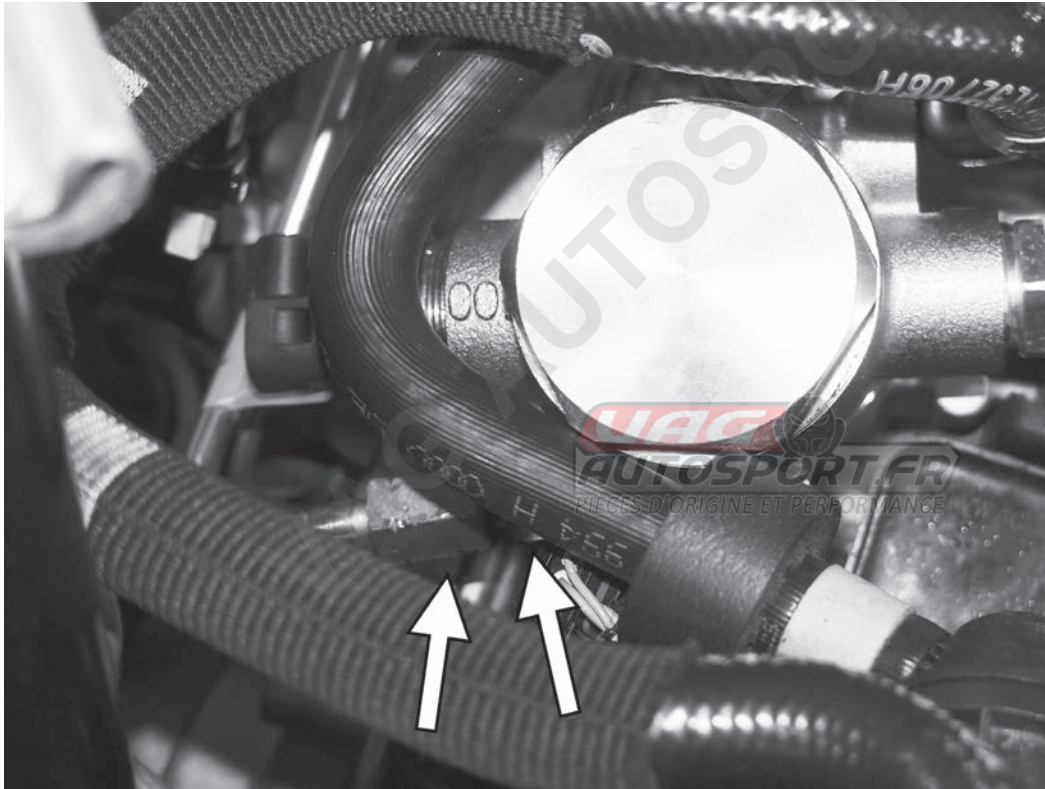
13) After lubricating the o-ring on the APR fuel pump, install it on the cylinder head with the two new, supplied 10mm triple square bolts. Work back and forth from bolt to bolt, tightening the bolts until the fuel pump just contacts its mounting surface. Tighten both bolts to 5Nm (44 in-lbs). Then tighten both bolts to 20Nm (177 in-lbs). Finally, tighten both bolts an additional 45°.

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14) Reconnect the electrical connector to the APR fuel pump.



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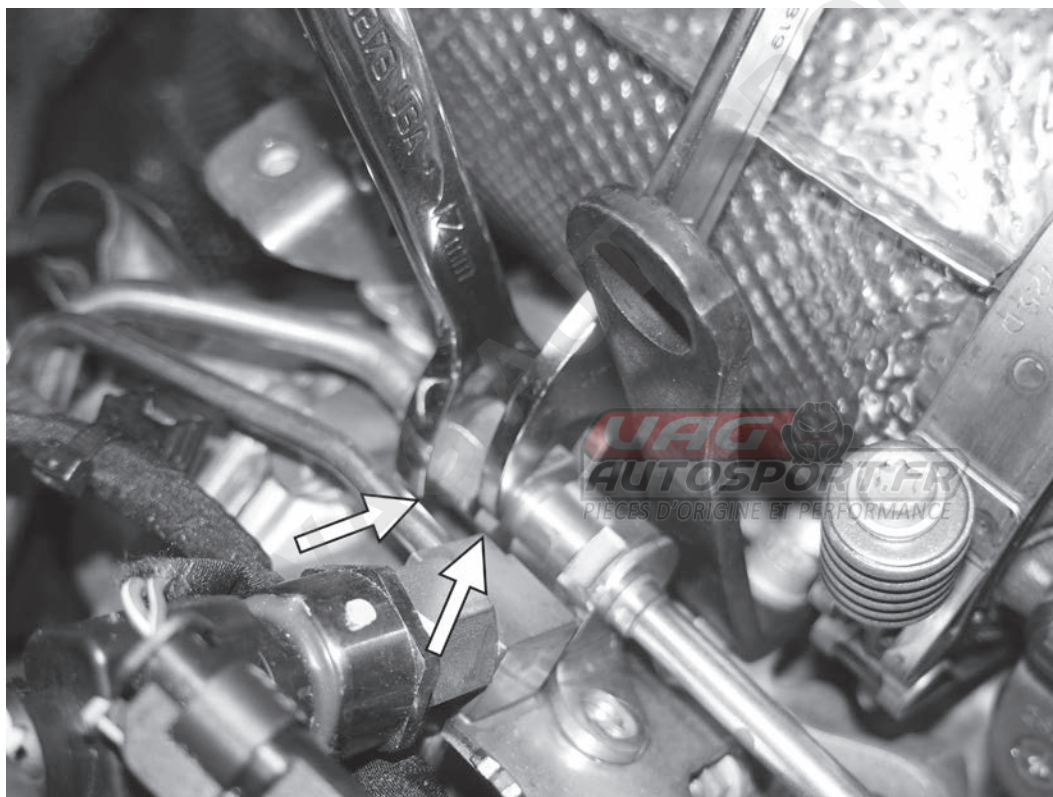


15) Reinstall the fuel line on the back of the fuel pump. Tighten the 14mm line while holding the 17mm brass fitting.

16) Reinstall the fuel line to the front of the fuel pump. Hold the 19mm brass fitting while tightening the 17mm fuel line.

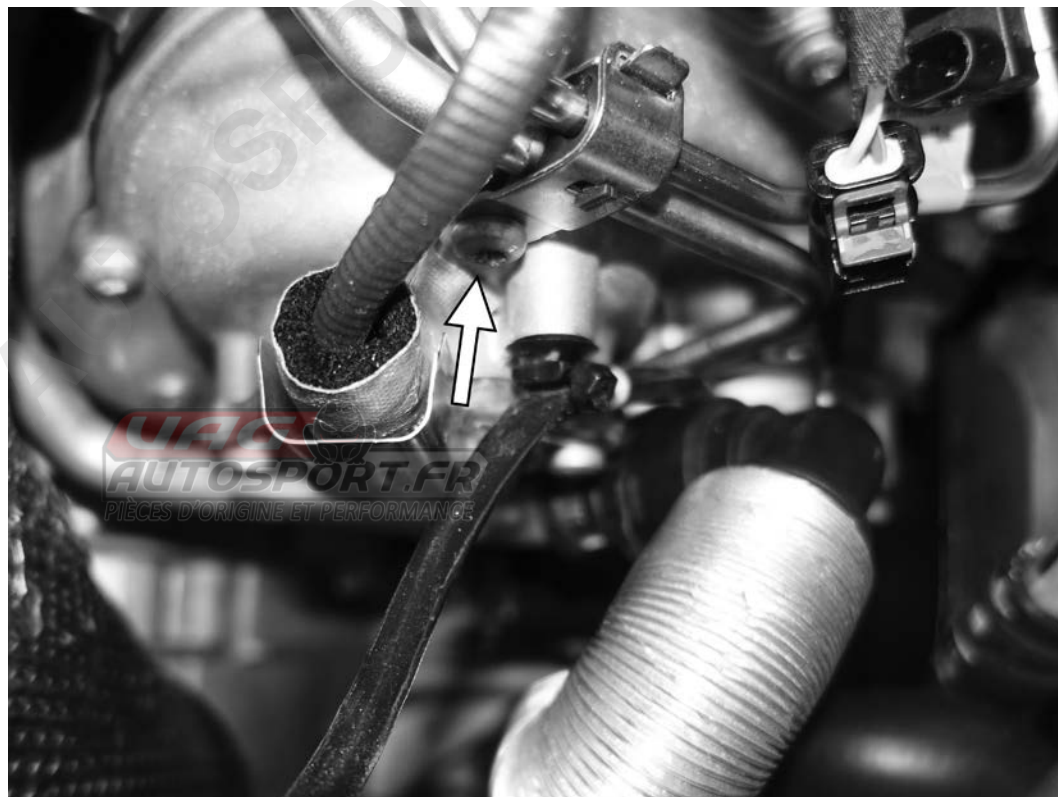


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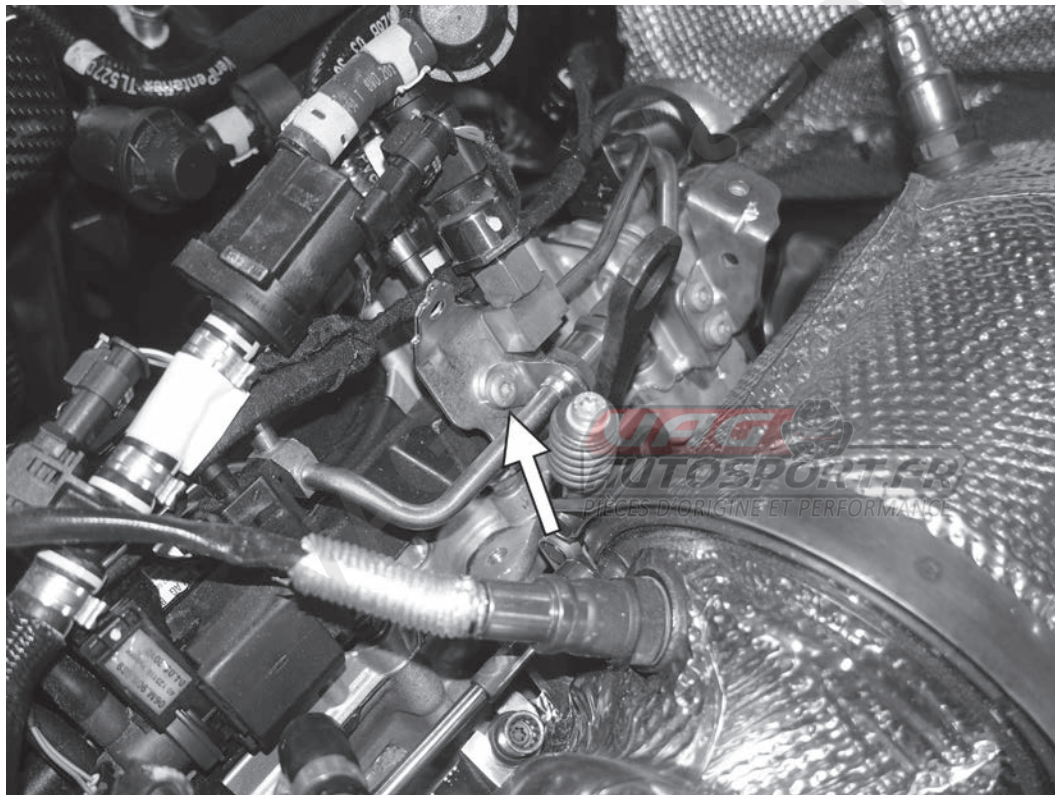


17) Reinstall the fuel line on top of the cylinder head. Hold the 19mm brass fitting while tightening the 17mm fuel line.

18) Reassemble the rubber grommet and bracket on the fuel line on the back of the cylinder head. Install the T30 screw and tighten to 8Nm (71 in-lbs).



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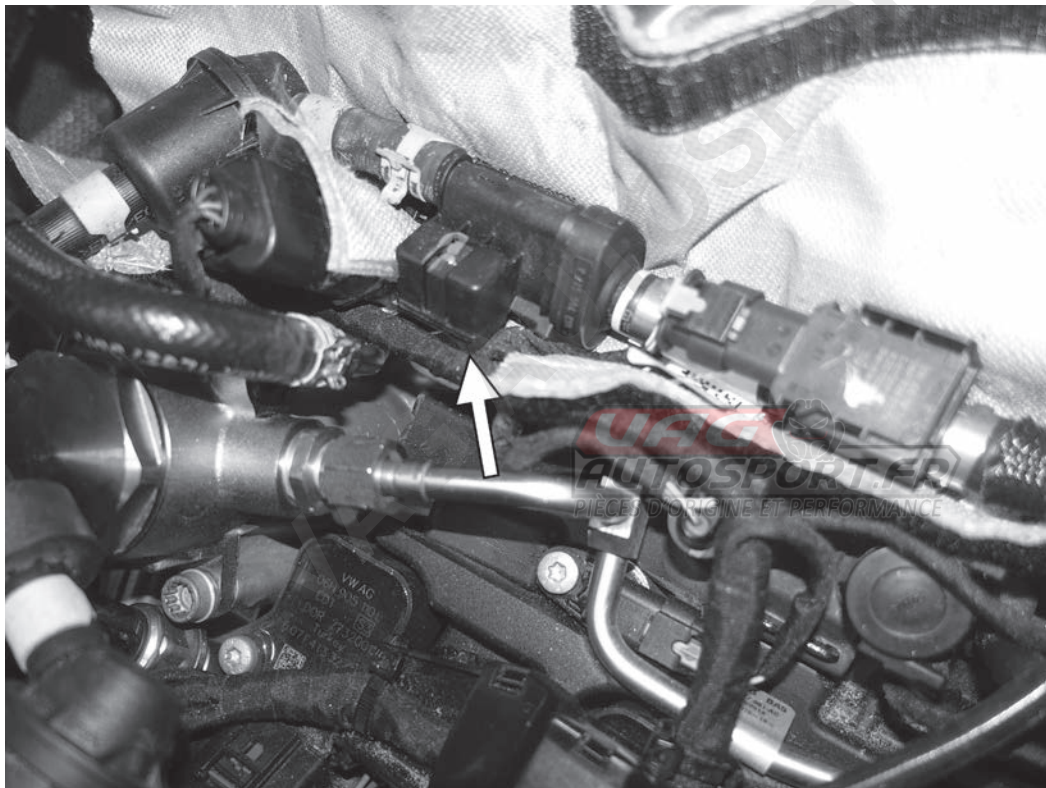


19) Install the T30 screw holding the fuel rail bracket, just below the N80 mounting point. Torque the screw to 9Nm (80 in-lbs).

20) Reinstall the metal heat shield with the four screws that hold the engine cover in place. Tighten the screws with a 13mm socket to 5Nm (44 in-lbs). Reattach the metal clip from the oxygen sensor harness to its original location on the metal heat shield.

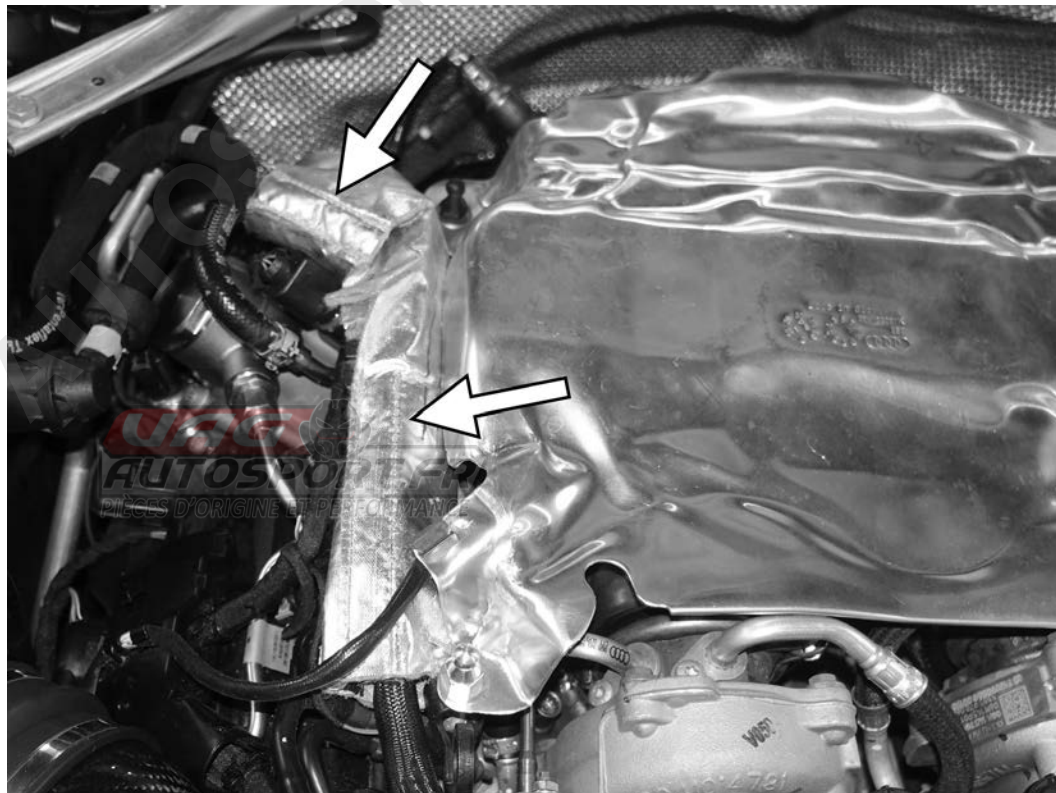


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21) Loosely reinstall the flexible heat shield around the N80 valve assembly. Push the N80 valve back onto its mounting post on top of the right cylinder head.

22) Resecure the velcro on the flexible heat shield over the N80 valve assembly.



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23) Reinstall the factory engine cover by pushing it down onto its four mounting posts.

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