

#TL100095



3.0T SUPERCHARGER CRANK PULLEY UPGRADE/
INSTALLATION INSTRUCTIONS

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Notes:

These instructions were written for a North American specification Audi S4, but other models, like the A6, A7, S5, and Q5 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.



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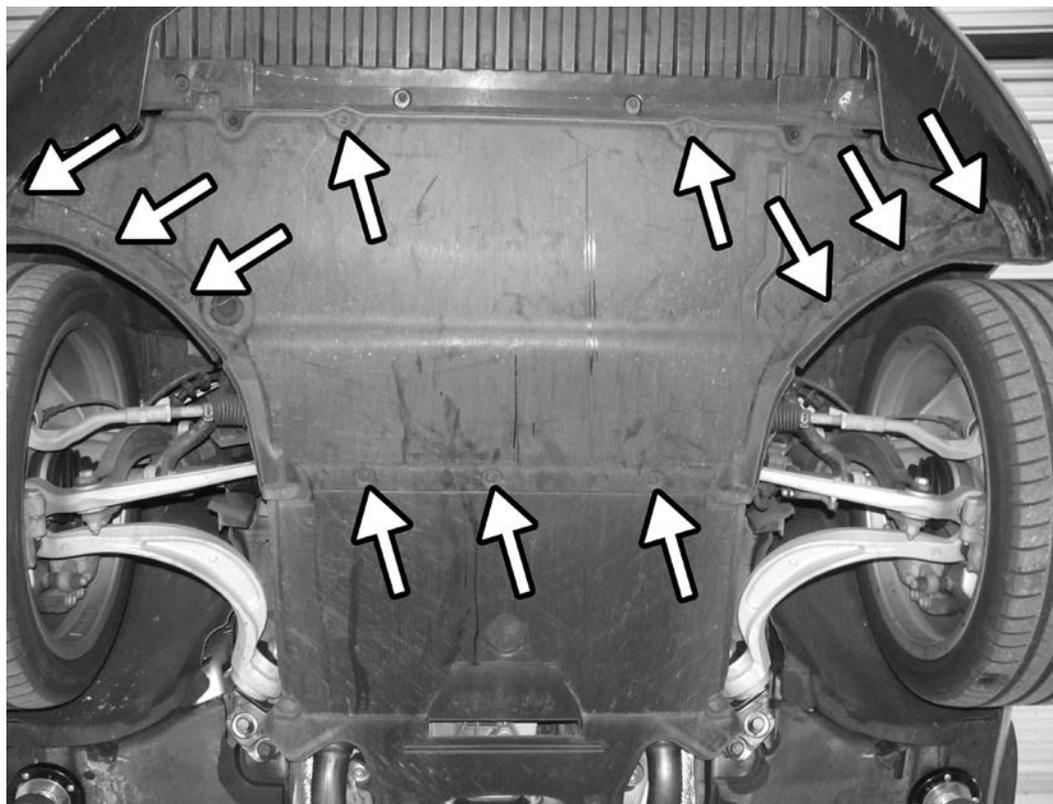
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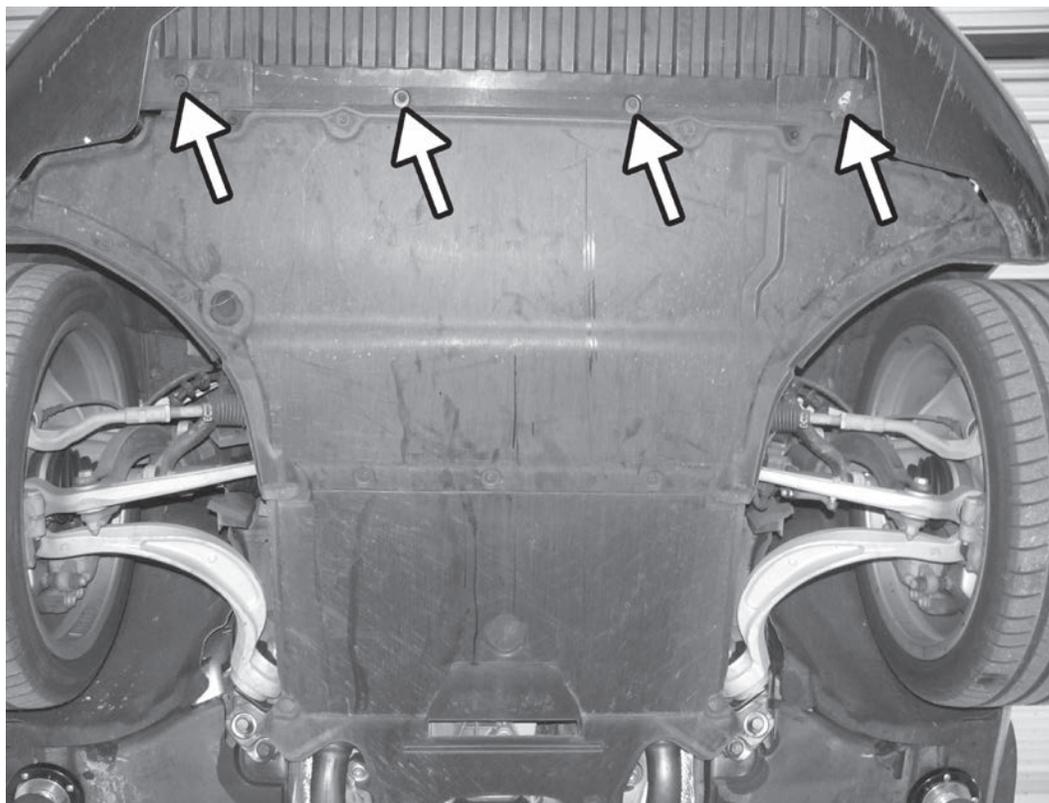
1) Securely lift vehicle. If a vehicle lift is not used, secure the vehicle with jack stands. Remove both front wheels.

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2) Remove the 11x quarter turn fasteners from belly pan with a screwdriver and remove the belly pan.



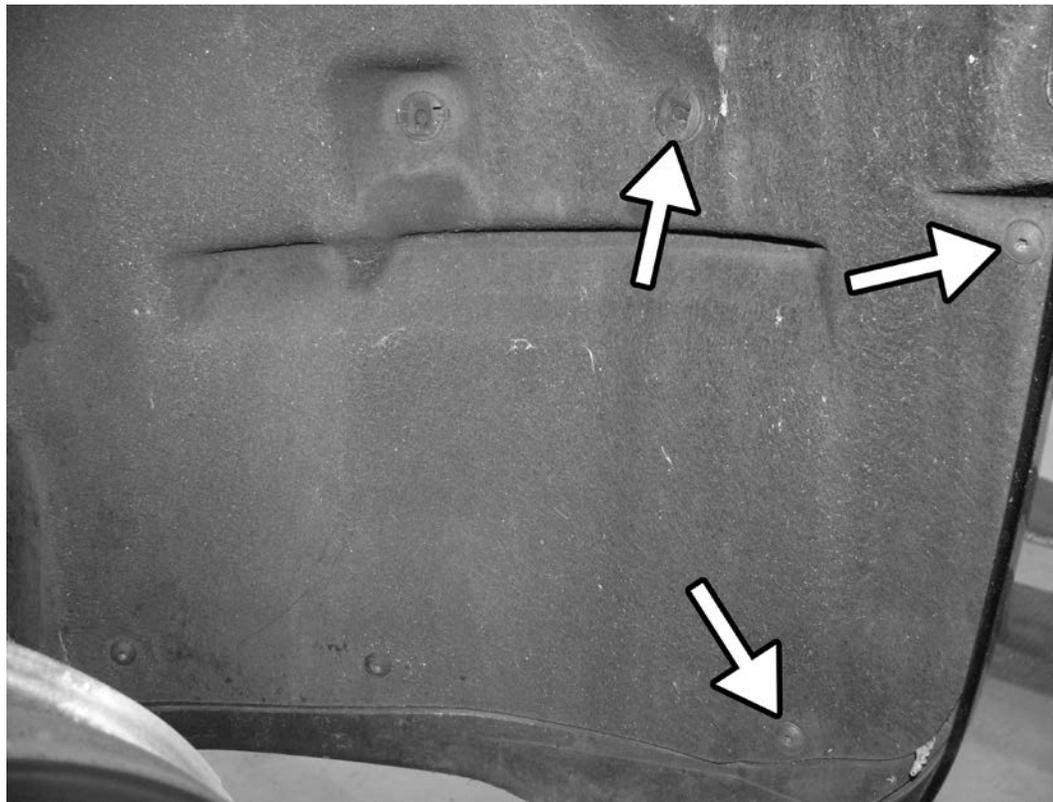
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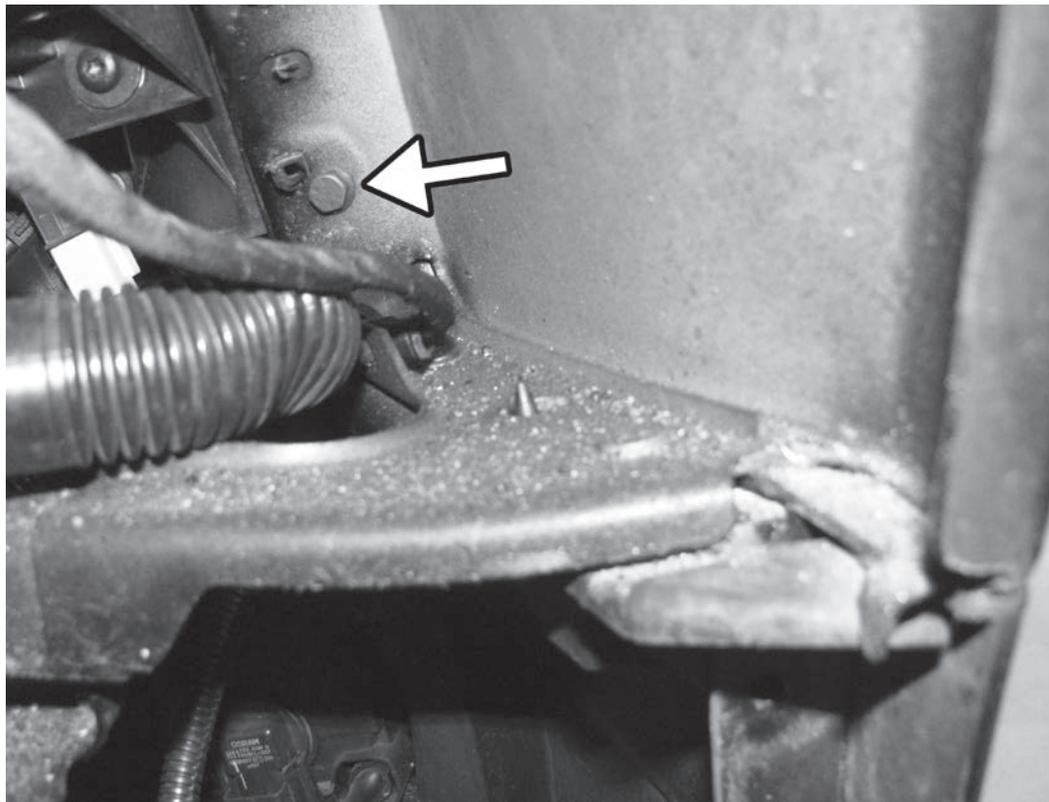
3) Remove the 4x T30 Torx screws from bottom of bumper cover.

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4) Remove 2x outer T25 Torx screws from fender well liner and the outer plastic clip. Repeat on both sides.



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5) Pull back fender liner and remove the 10mm bolt from bumper cover. Repeat on both sides.

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6) Remove 4x T30 Torx screws from upper bumper trim cover and remove the cover.





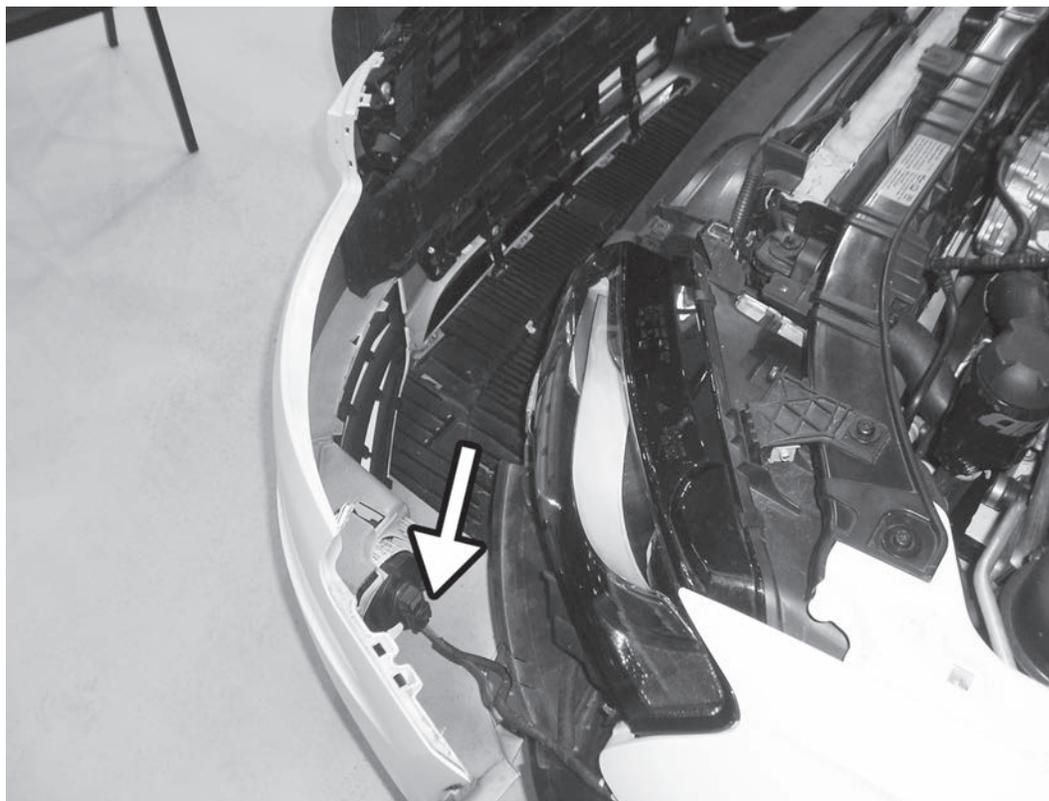
7) Remove 2x T25 Torx screws from top of bumper cover.

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8) Carefully pop the upper corner of bumper cover out. Repeat on opposite side.

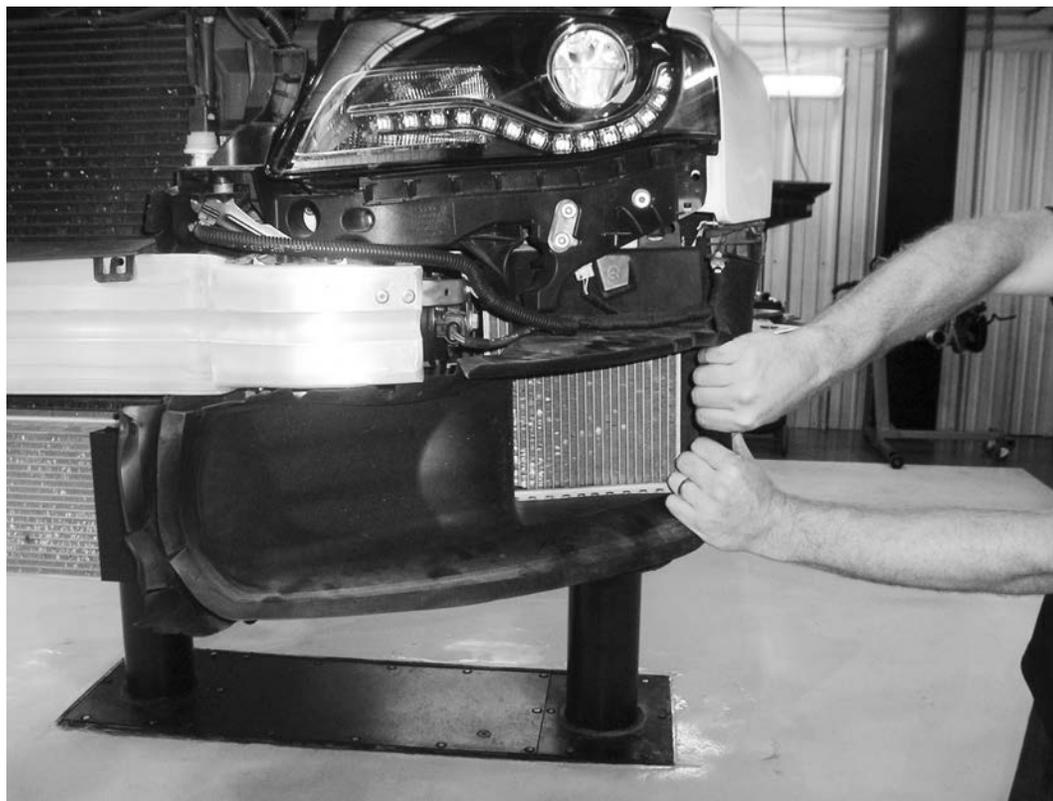


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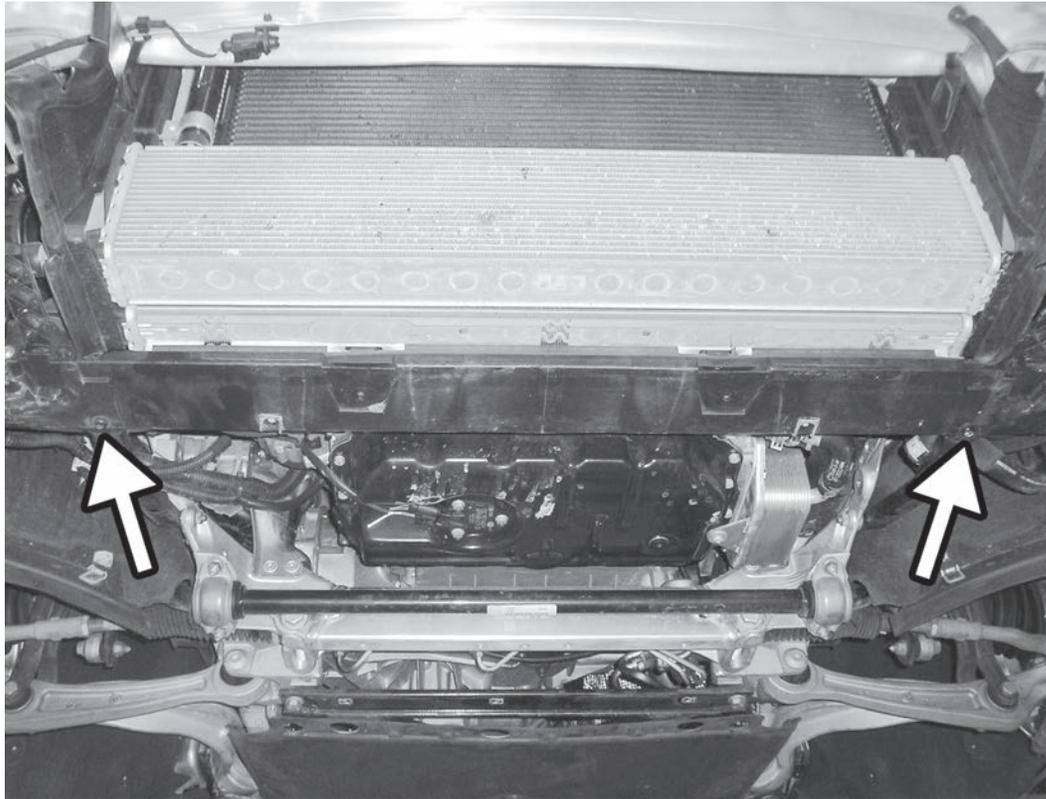


9) Carefully pull bumper cover forward and disconnect left and right fog light harness. Remove bumper cover.

10) Carefully remove the radiator ducting.



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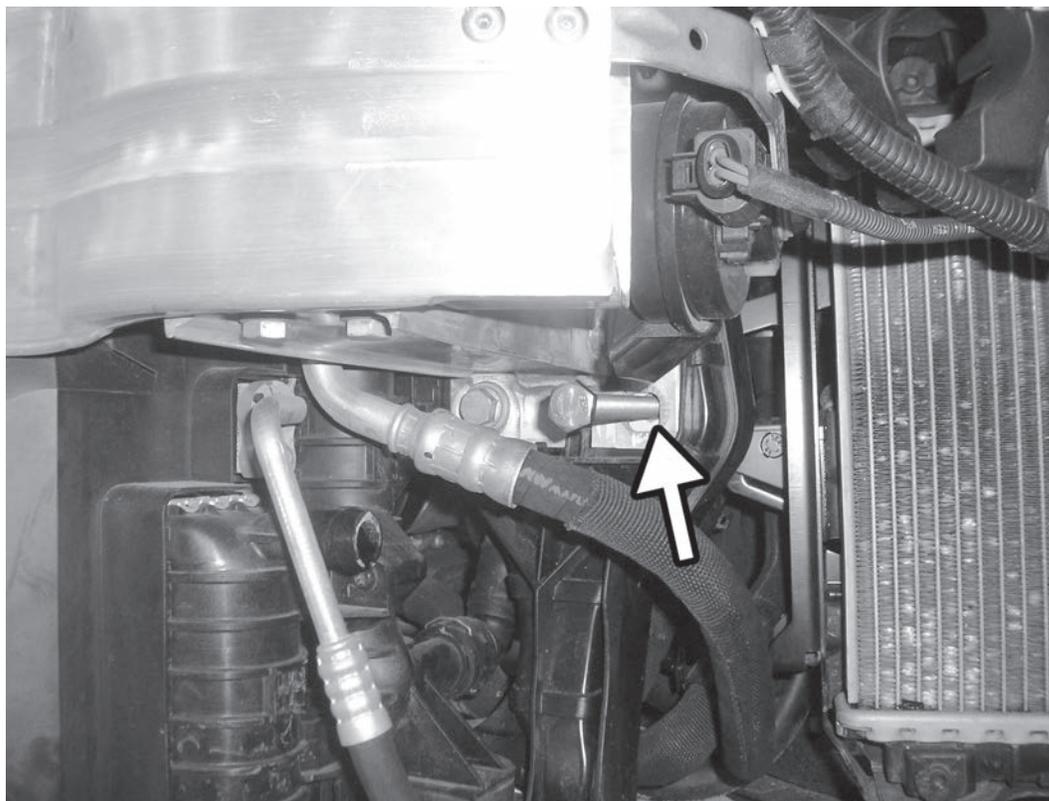


11) Remove 2x T30 Torx screws from bottom of radiator core support.

12) Remove 2x T30 Torx screws from top of radiator core support.



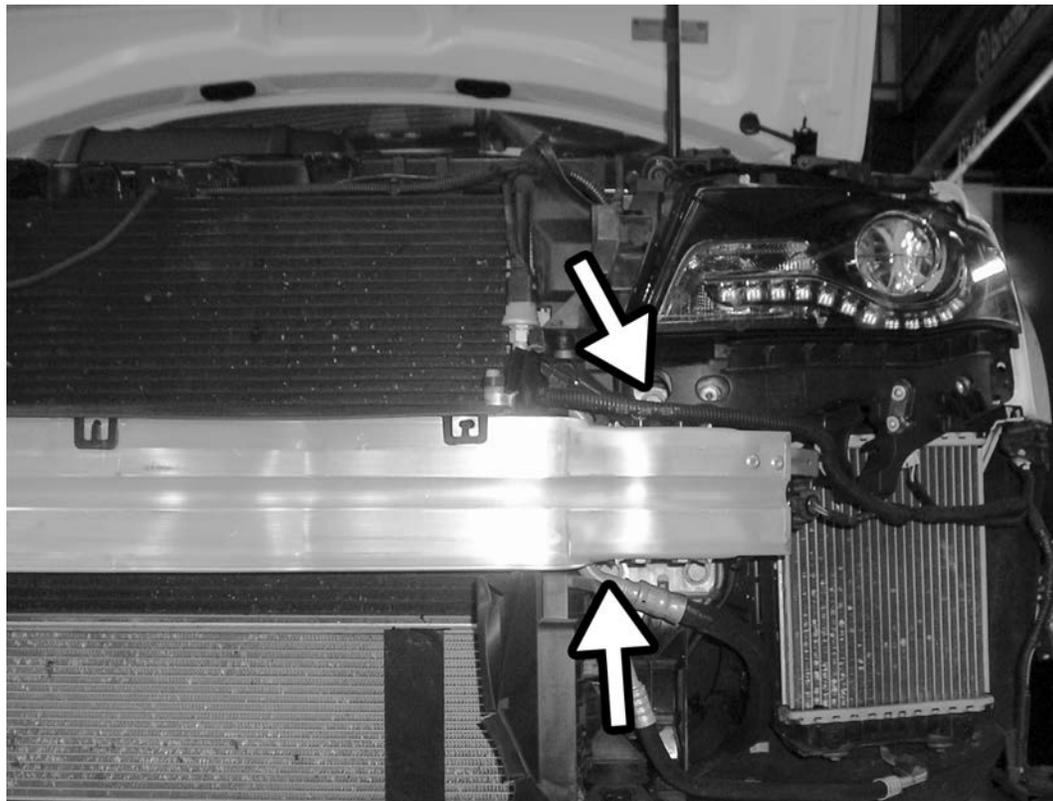
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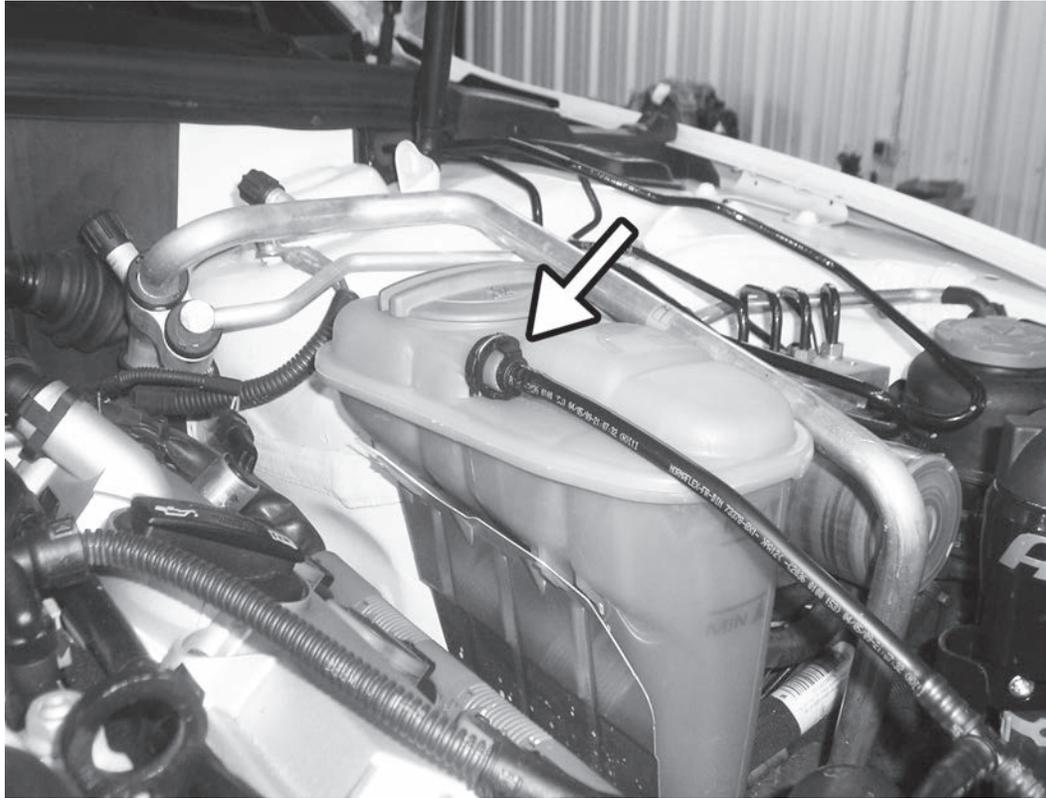
13) There are six 16mm bolts attaching the radiator core support to the front frame rails. ONLY remove the lower, outer bolts on both sides and replace these with the long bolts supplied with the APR Pulley kit. Only thread the bolts in to the same depth as the factory fastener.

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14) Remove the remaining four 16mm bolts holding the core support to the frame rails.



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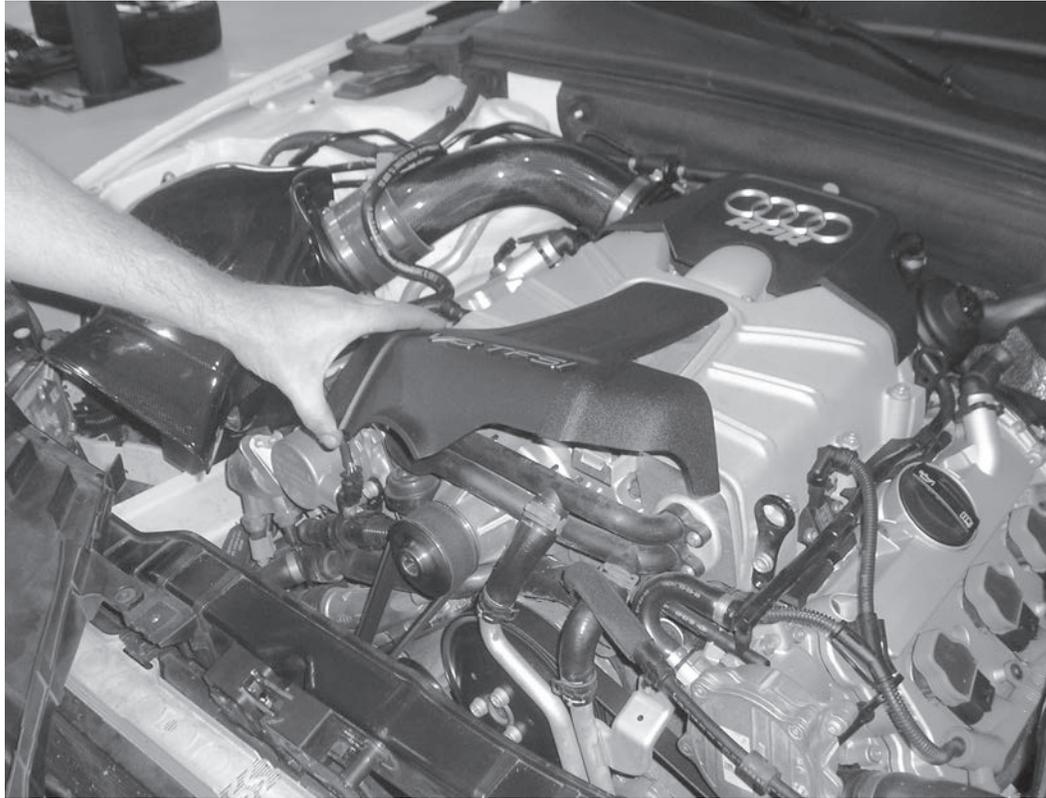


15) Disconnect coolant bleed line from expansion tank.

16) Carefully pull the radiator core support forward slightly and disconnect right and left headlight harnesses. The core support can then be pulled fully forward on the two bolts previously installed.



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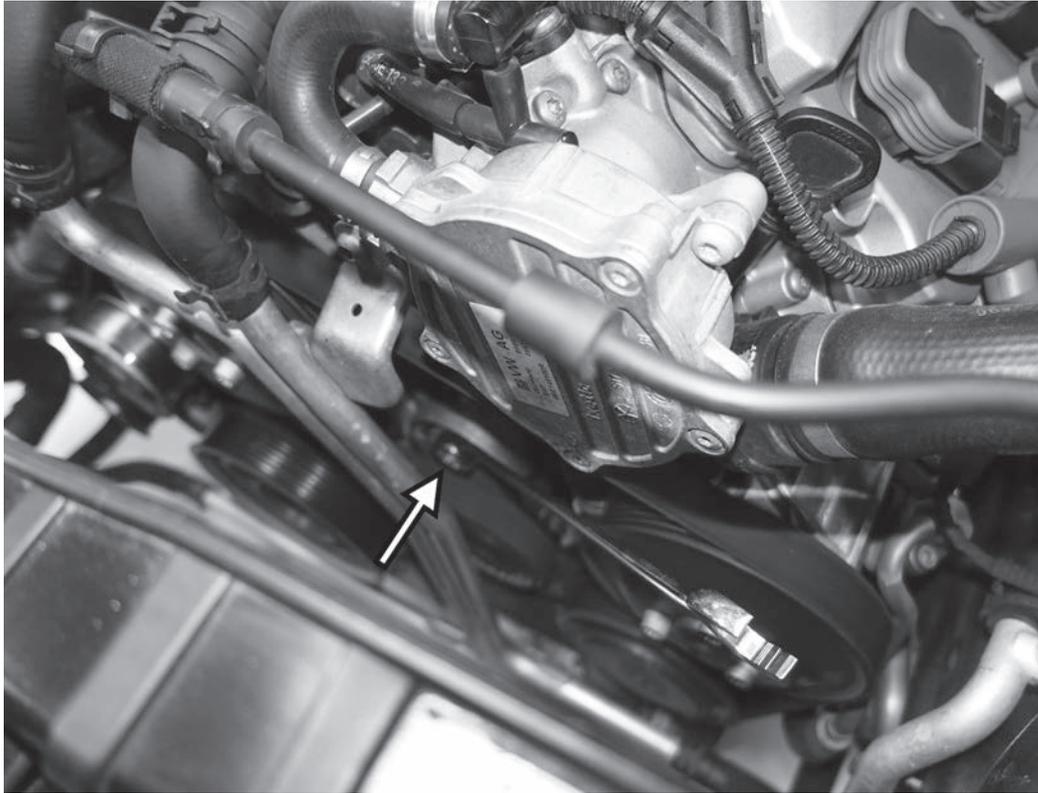
17) Remove front plastic cover from supercharger.

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18) Using a 16mm wrench, release tension on supercharger's belt tensioner by pushing down and carefully remove the belt.



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19) Using a 17mm wrench, loosen the tension on the accessories belt by pushing down on the wrench. With tension removed, slip the belt off the alternator pulley on the right side of the engine.

20) Using a 10mm triple square, remove the 8x bolts holding the stock crankshaft pulley in place.



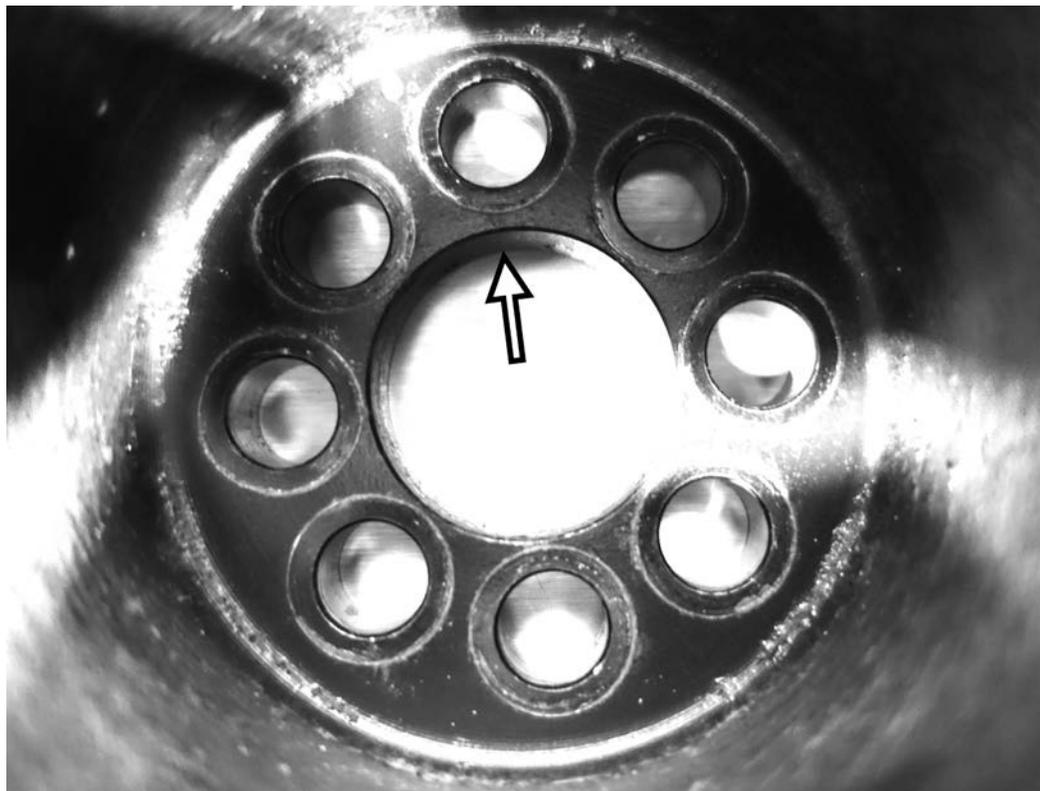
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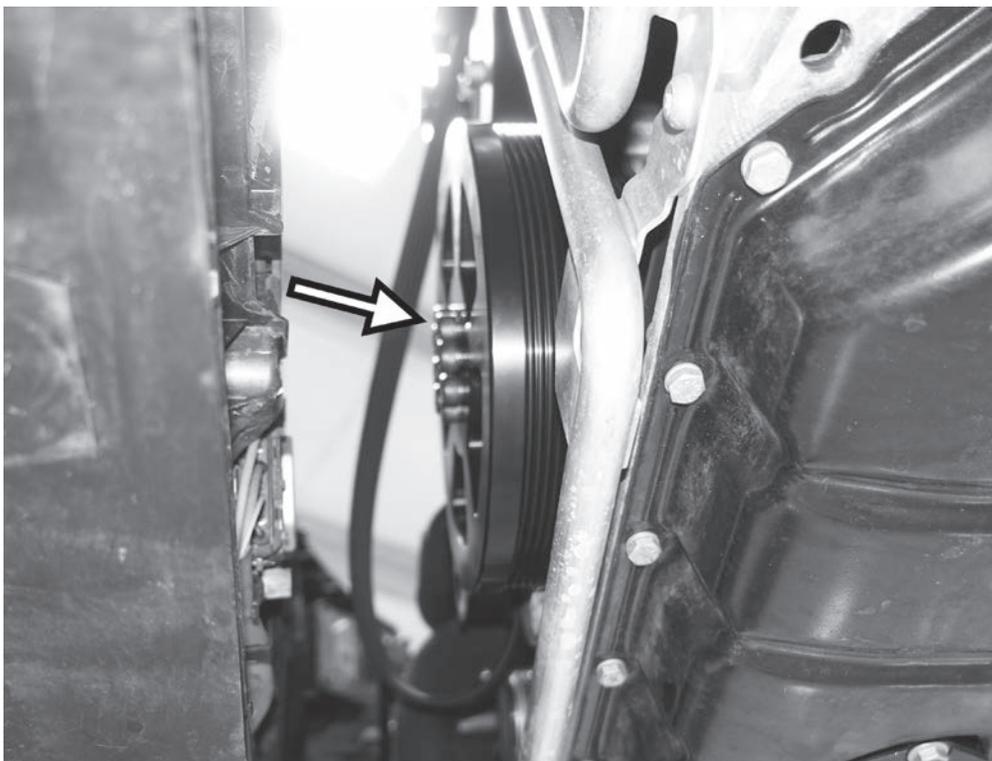
21) Install the 8x supplied bolts with washers into the APR crank pulley. Note that one of the holes on the APR pulley is slightly offset from the others.

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22) One of the holes on the OEM crankshaft pulley is one millimeter offset from the other seven holes, as noted by the arrow. Note which bolt hole on the crankshaft pulley is offset.



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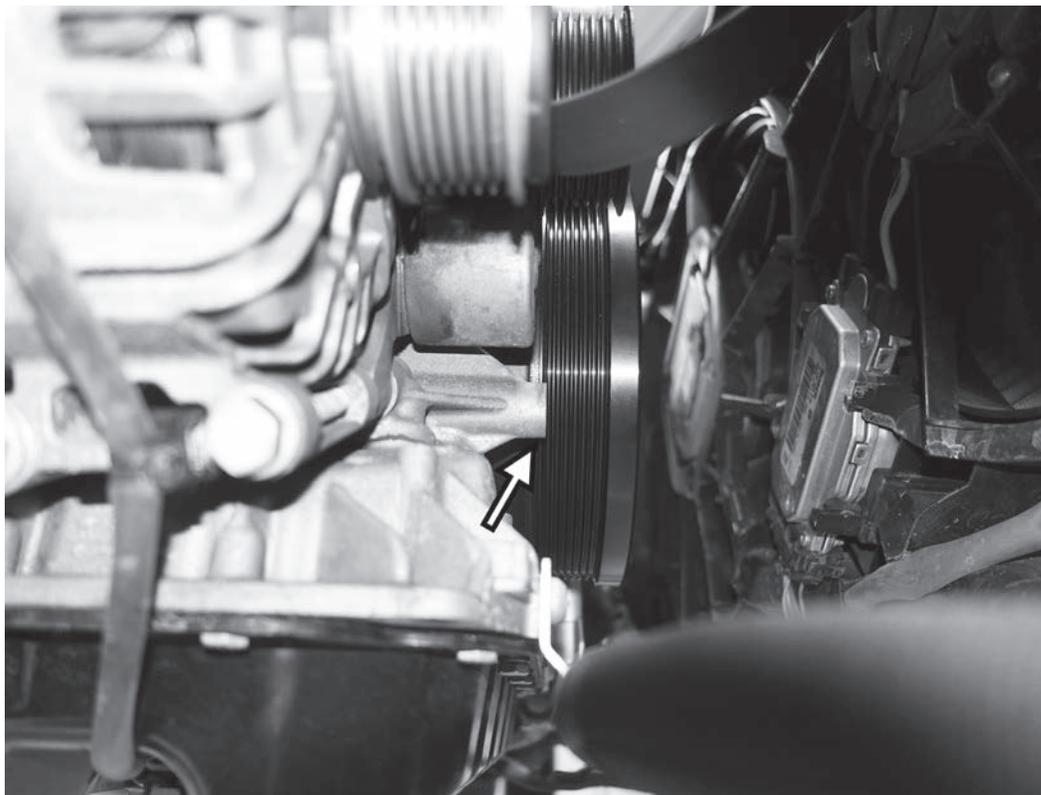


23) Place the APR pulley over the stock crankshaft pulley on the engine. Make sure that the offset hole in the APR pulley aligns with the offset hole in the stock pulley.

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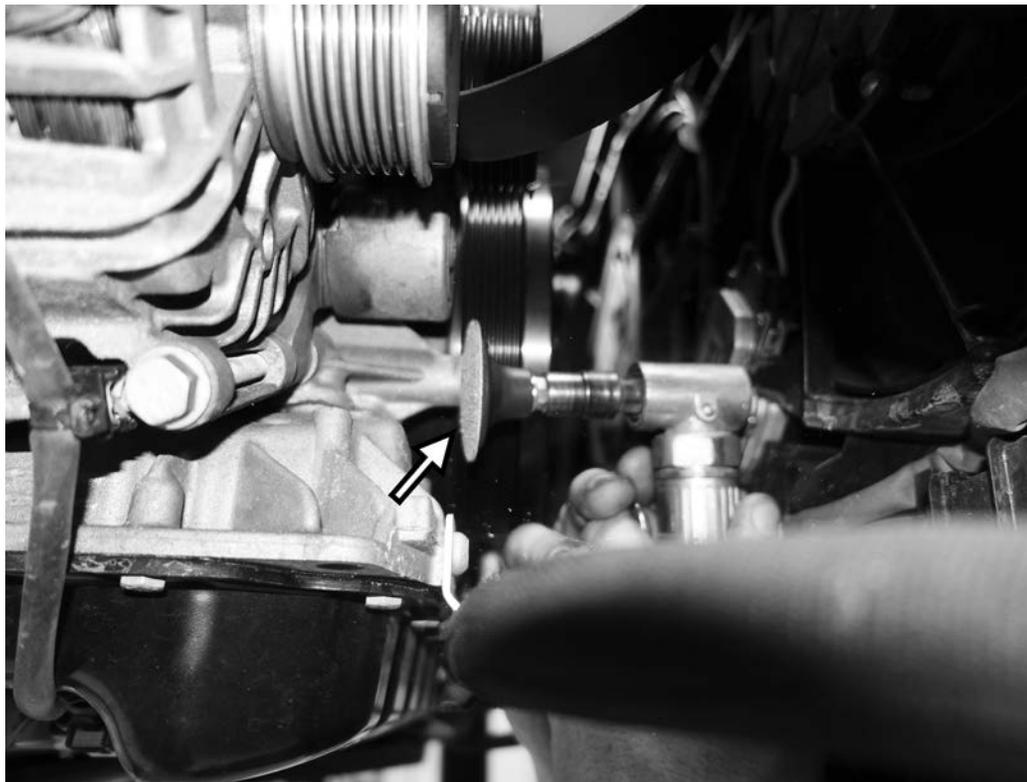
24) Screw all of the bolts in on the APR crank pulley, going through the stock pulley as well. Do NOT tighten /torque the bolts at this point.



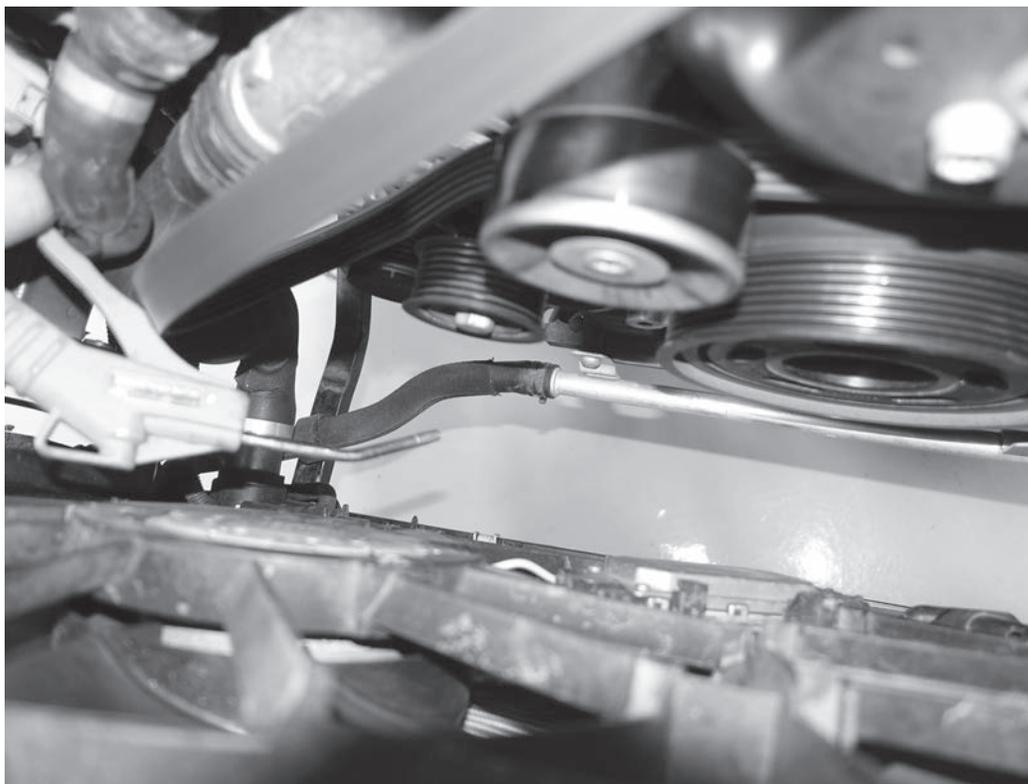


25) Observe how this post on the front of the engine block, just to the right of the crank pulley, is in the path of the supercharger belt by a few millimeters.

26) Remove the APR crank pulley to prevent damage. Using while using a angle grinder with a grinding disc or abrasive scotchbright pad, remove the extra material from this post in order for the belt to clear in front of the post. This post is not used to mount anything on a 3.0T.



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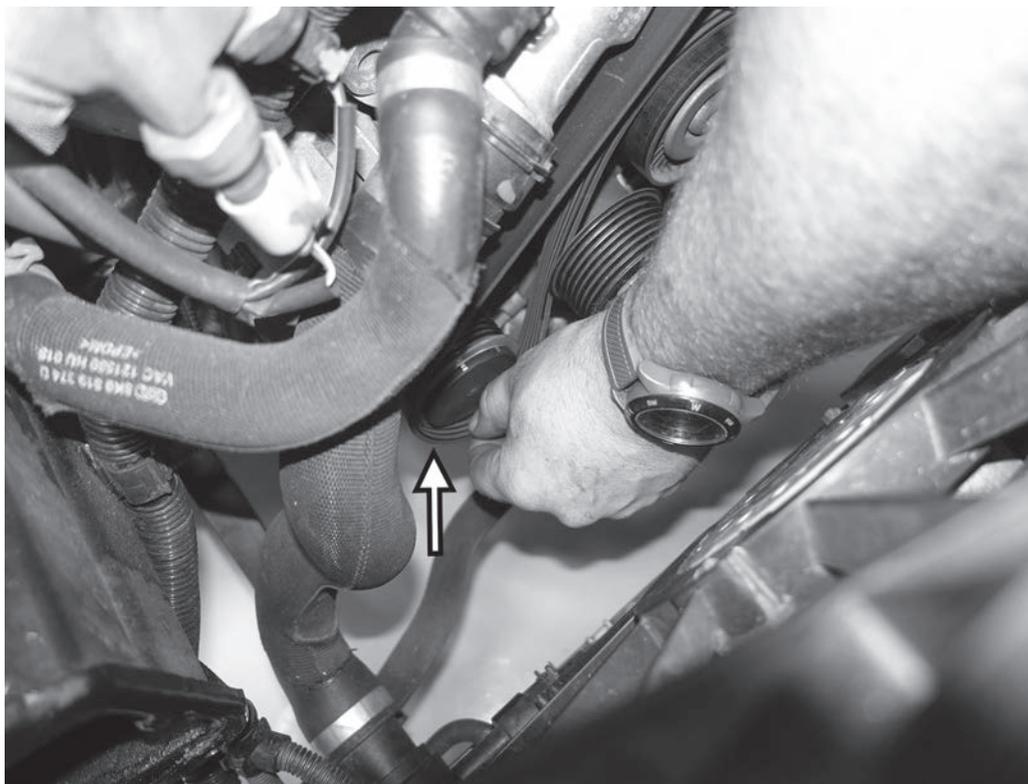
27) Use air or water to clean off any excess material from grinding the post off.

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28) Reinstall the APR crank pulley and torque the eight crank pulley bolts to 35lb-ft (48Nm).



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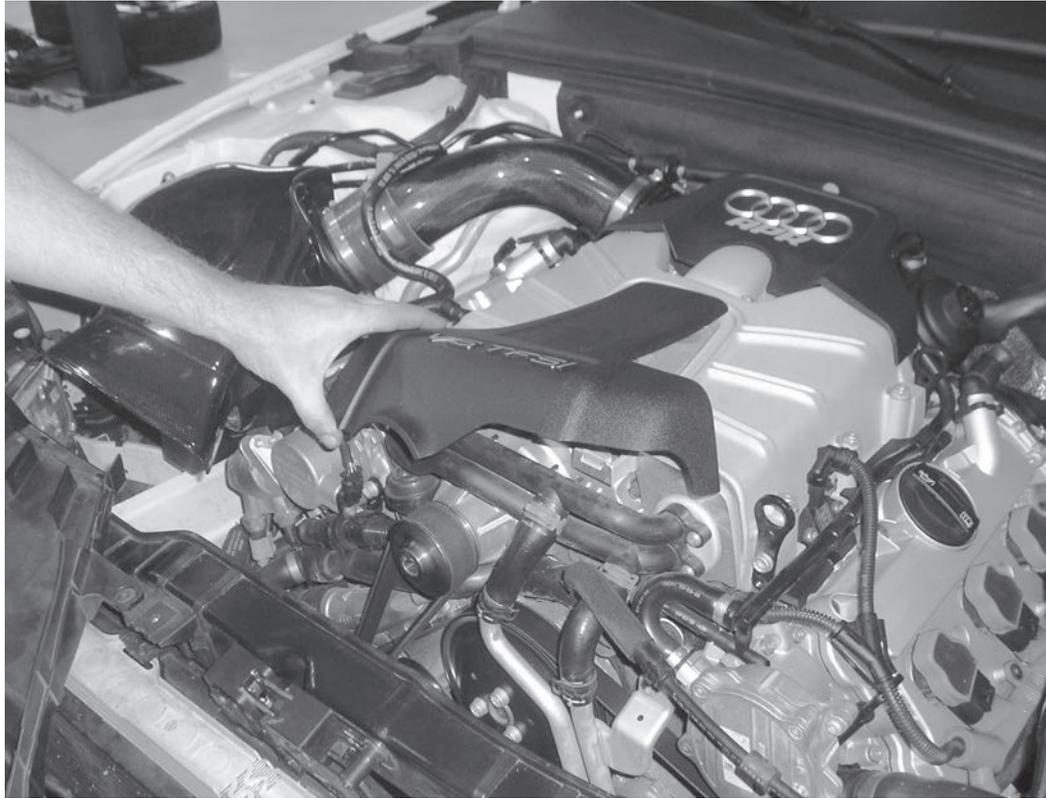


29) Reinstall the accessory belt by using a 17mm wrench to push down the accessory belt tensioner, and then slip the accessory belt over the alternator.

30) Using a 16mm wrench, push down on the supercharger belt tensioner and install the supplied belt onto the supercharger and APR crank pulley.



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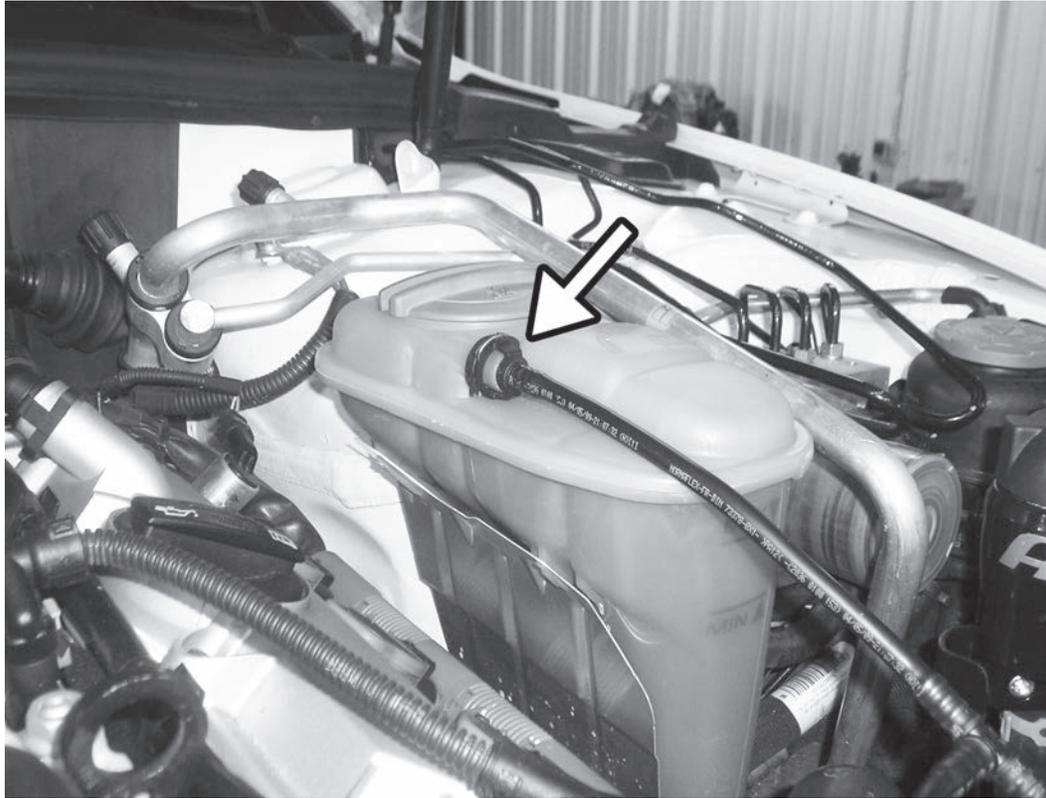


31) Reinstall the engine cover on the front of the supercharger.

32) Reconnect the right and left headlight harnesses. Carefully slide the radiator core support back on the two long bolts holding the core support in place.

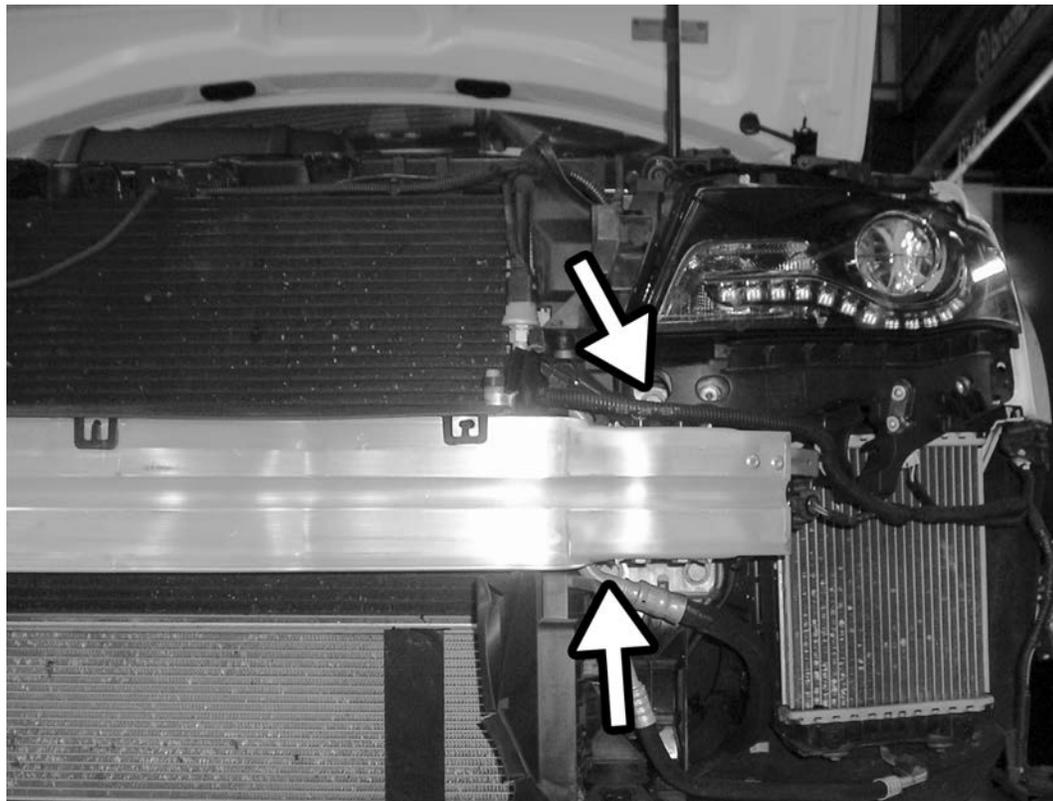


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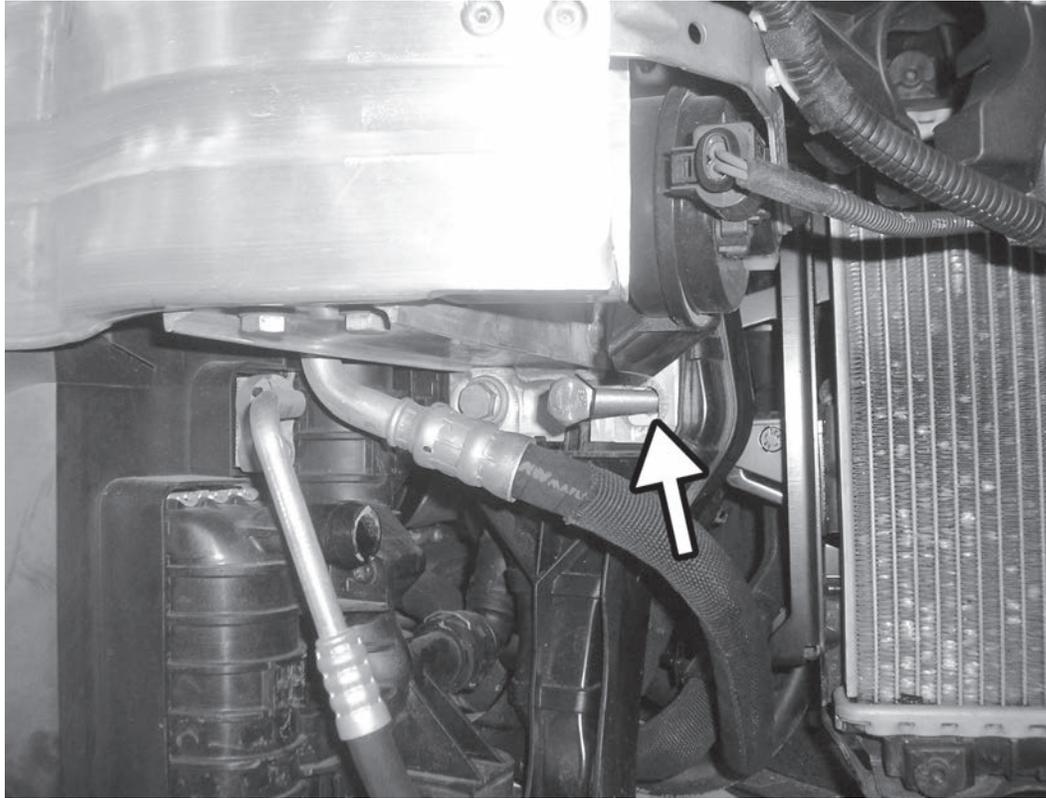


33) Reconnect the coolant hose to the front of the coolant reservoir.

34) Install four of the six 16mm bolts holding the core support to the frame rails, leaving the two supplied long bolts in place.



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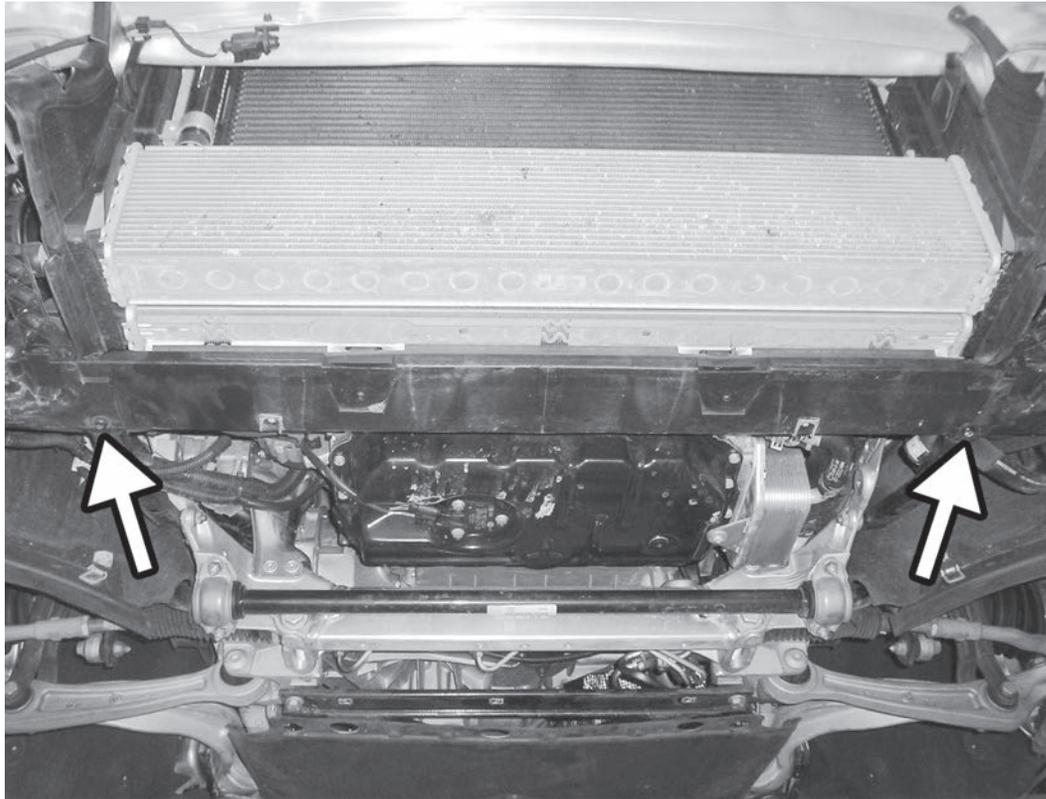


35) Remove the two long, supplied bolts and install the two remaining 16mm factory bolts in the frame rails. Tighten all six 16mm bolts holding the core support to the frame rails.

36) Install the 2x T30 Torx screws connecting the top of radiator core support to the upper fenders.

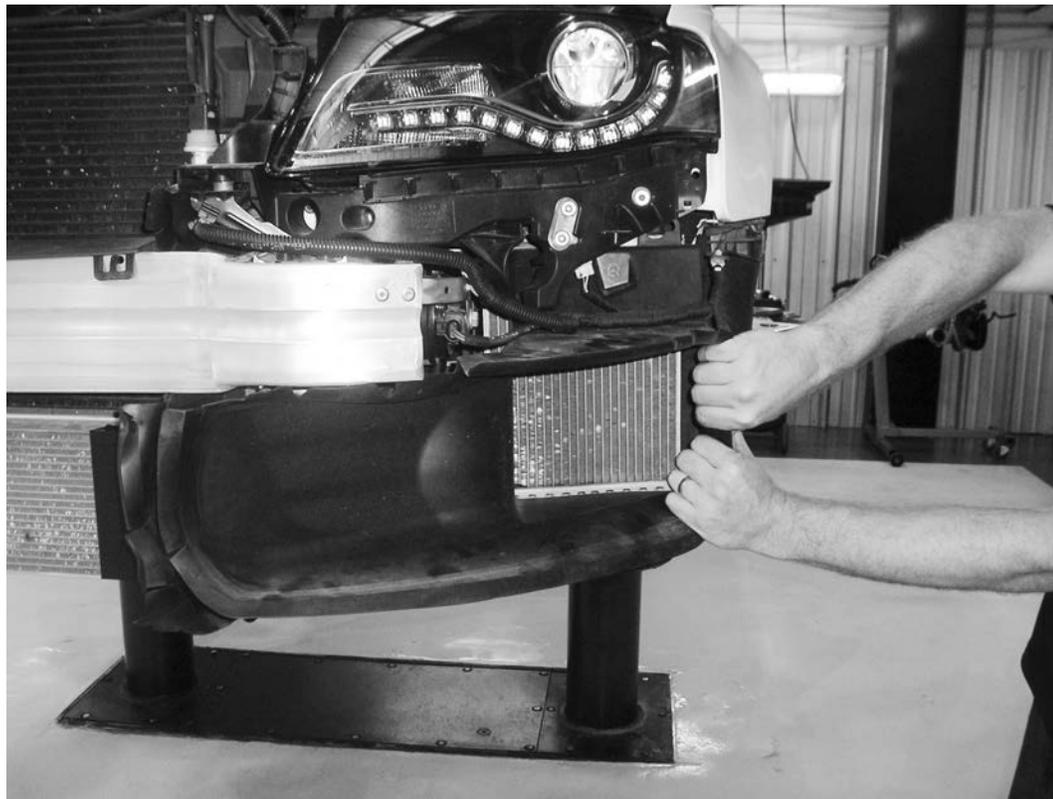


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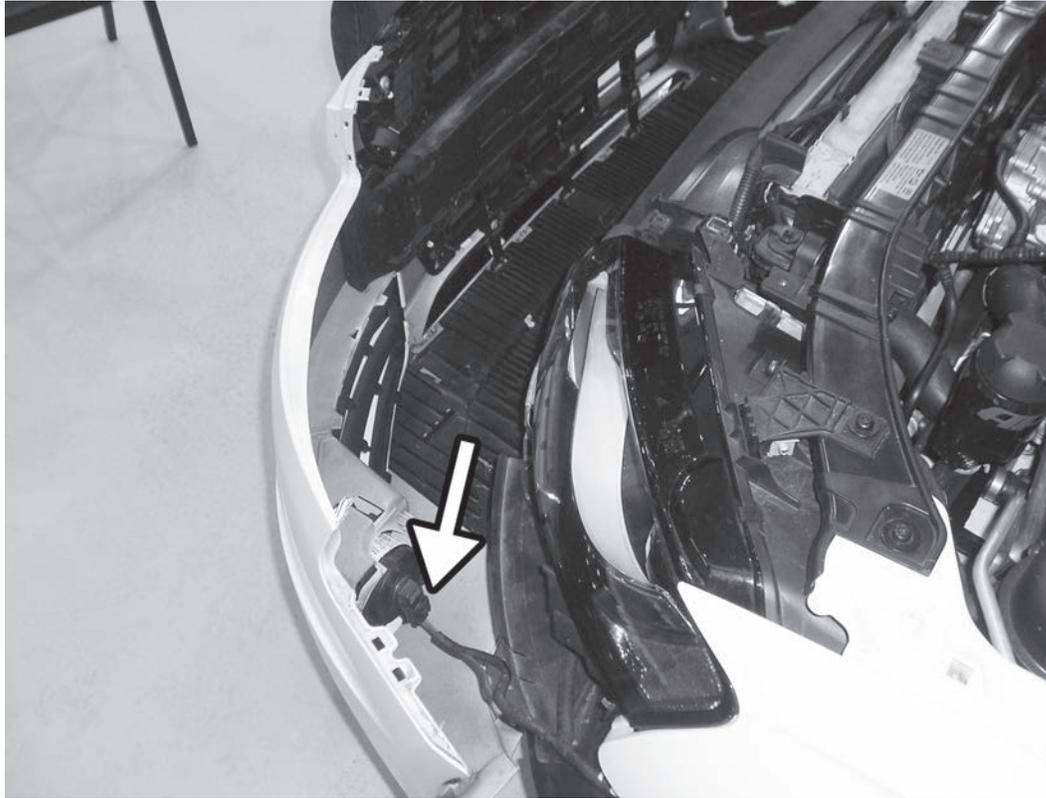


37) Install the 2x T30 Torx screws from bottom of radiator core support.

38) Reinstall the ducting to the small side radiator on the car.



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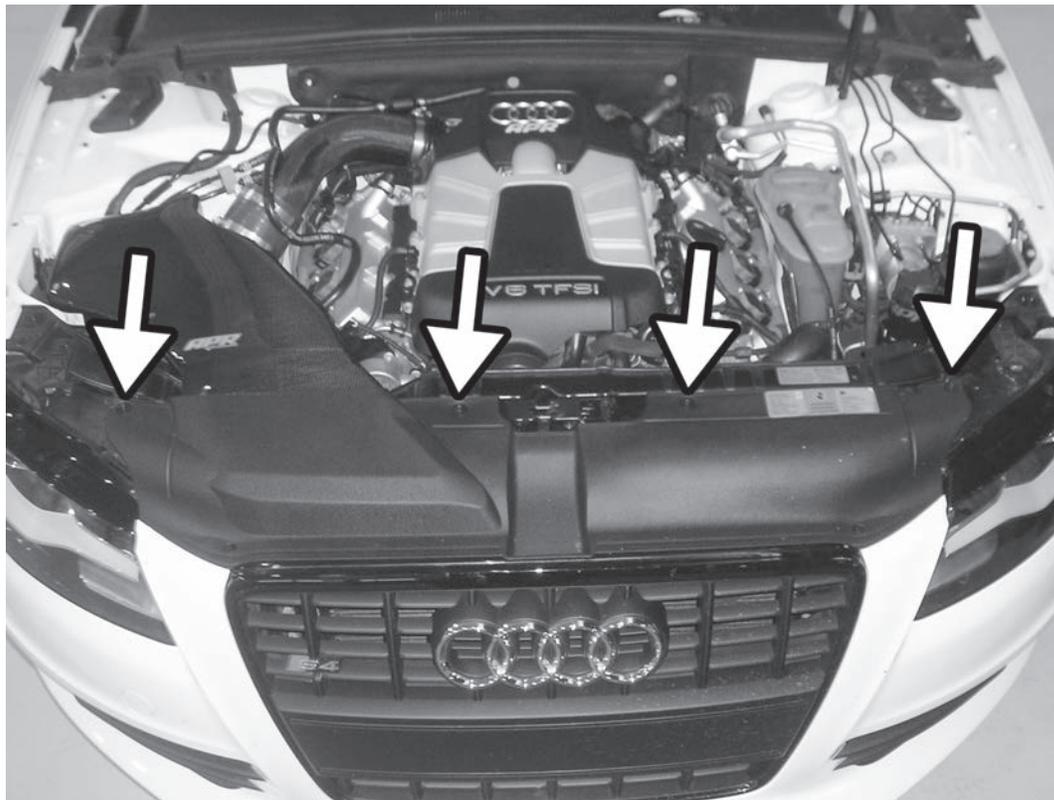


39) With an assistant, place the bumper cover back in front of the car. Reconnect the left and right fog light harness and bring the bumper back to its resting place on the core support.

40) Reinstall the 2x T25 Torx screws from top of bumper cover. Push the sides of the bumper cover in, snapping them into the slots by the fenders.



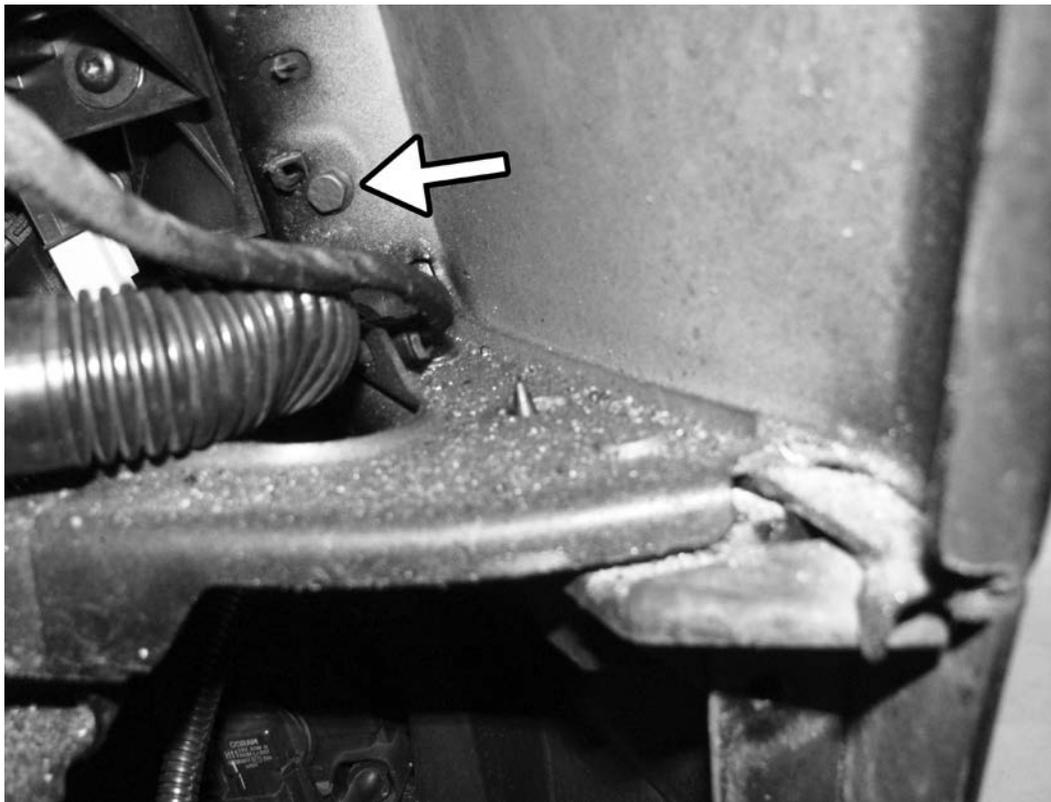
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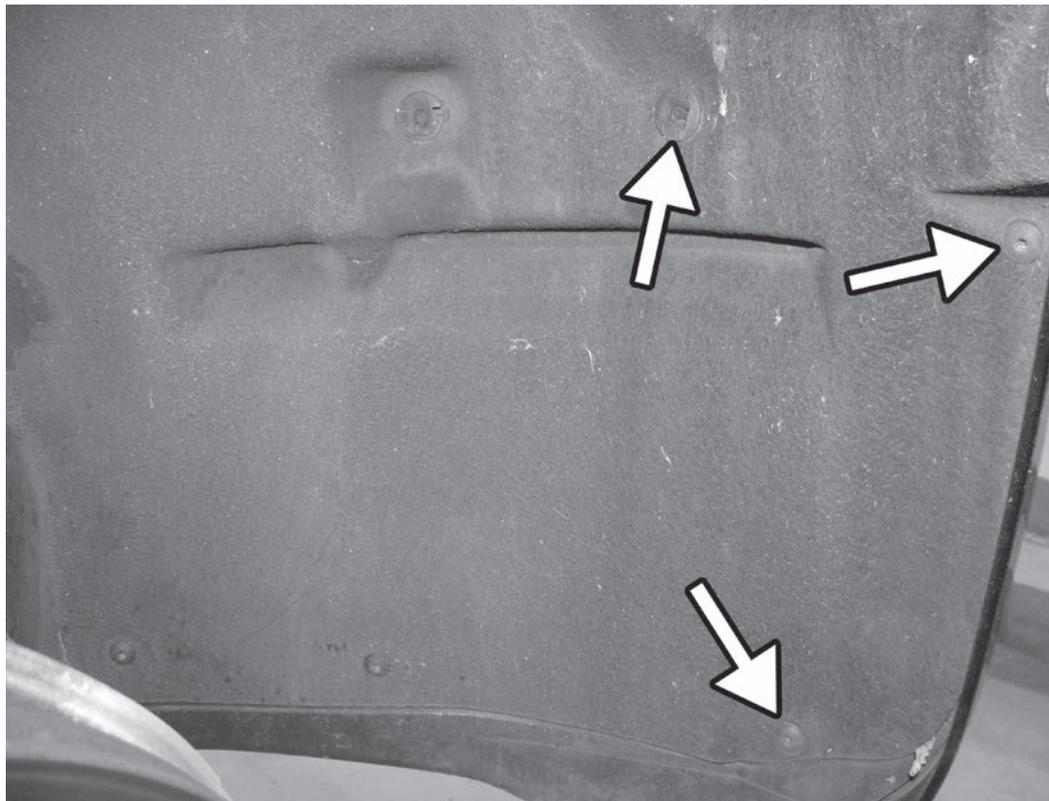
41) Reinstall the upper radiator trim cover with the 4x T30 Torx screws.

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42) Behind the fender liner on both sides, reinstall the 2x 10mm bolts holding the fender to the bumper cover.

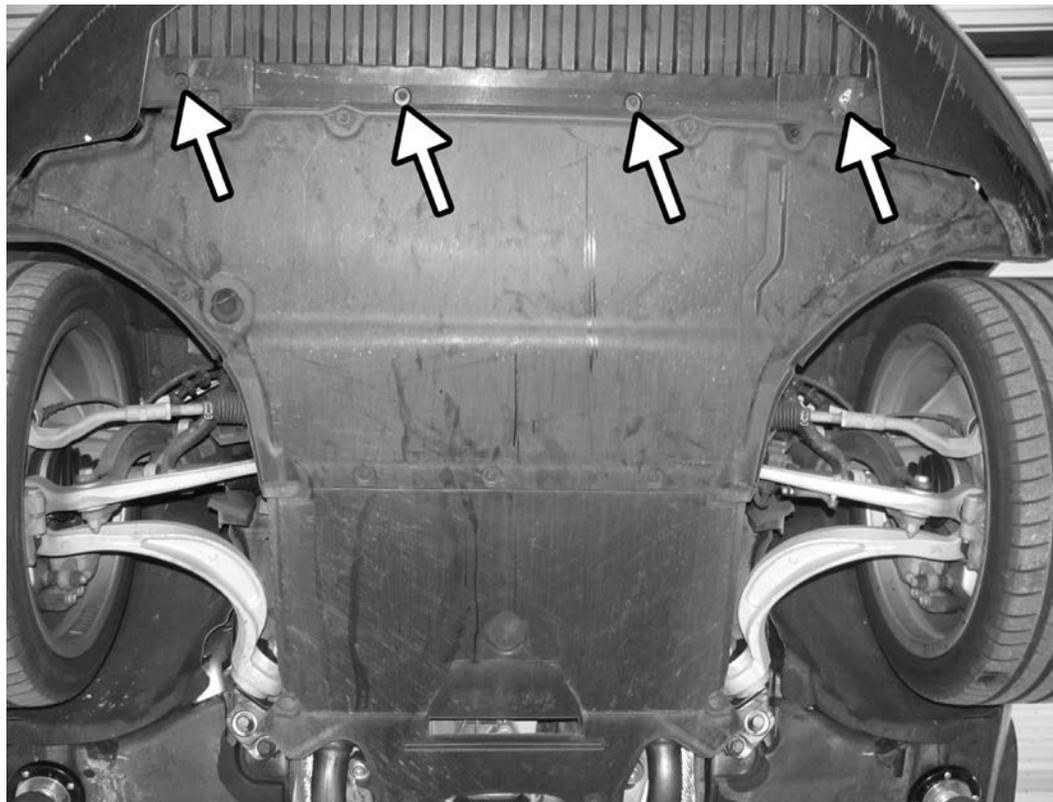


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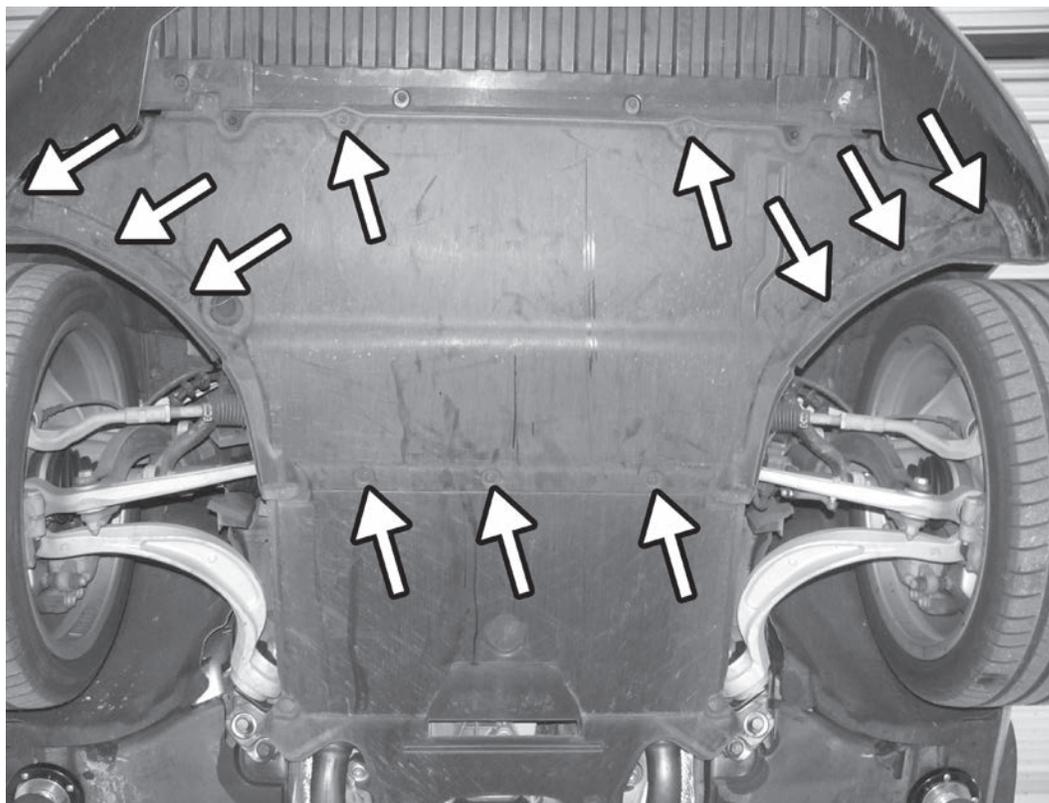


43) Reinstall the 2x outer T25 Torx screws from fender well liner and the outer plastic clip. Repeat on both sides.

44) Install the lower belly pan and secure the front of it with the 4x T30 Torx screws that run along the bottom of front bumper cover.



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45) Install the 11x quarter turn fasteners onto the belly pan with a screwdriver.

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