

## 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.



W W W . G O A P R . C O M



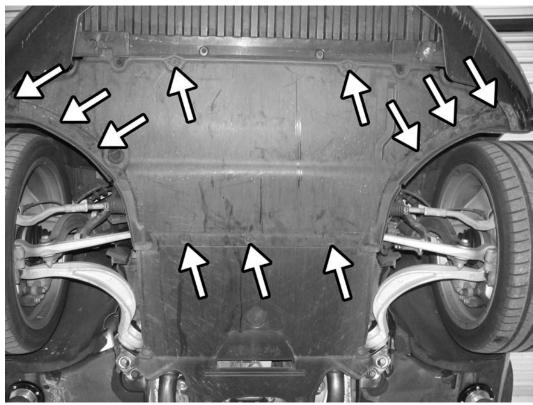
4800 US HWY 280 West Opelika Alabama 36801



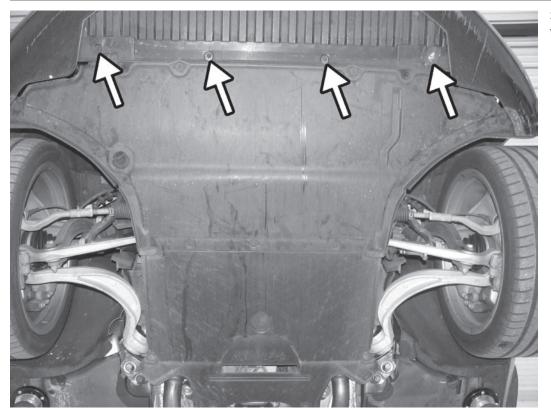
1) Securely lift vehicle. If a vehicle lift is not used, secure the vehicle with jack stands. Remove both front wheels.



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



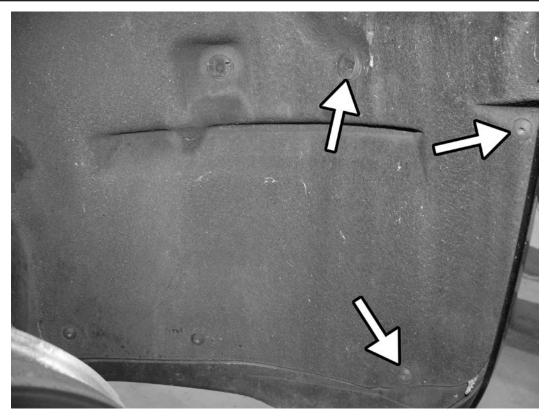




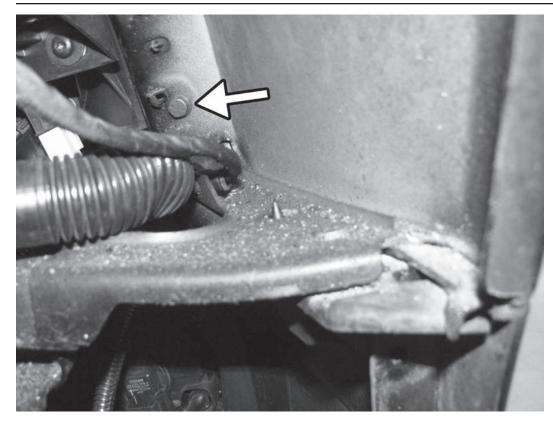
3) Remove the 4x T30 Torx screws from bottom of bumper cover.



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







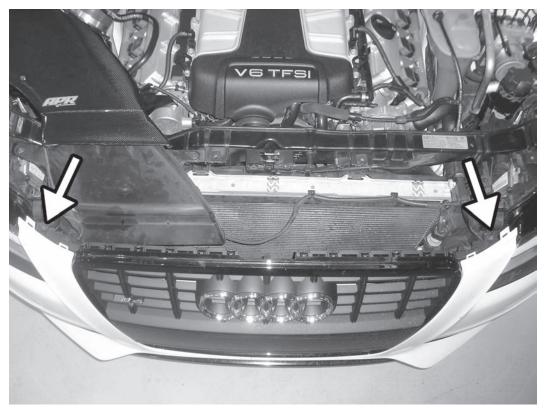
5) Pull back fender liner and remove the 10mm bolt from bumper cover. Repeat on both sides.

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







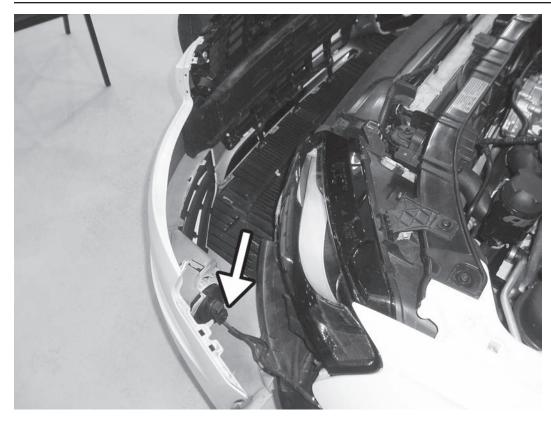
7) Remove 2x T25 Torx screws from top of bumper cover.



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



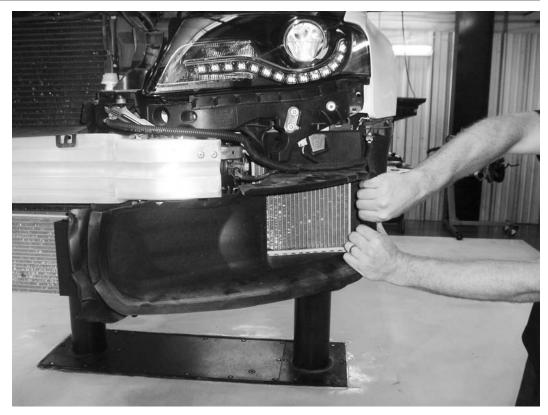




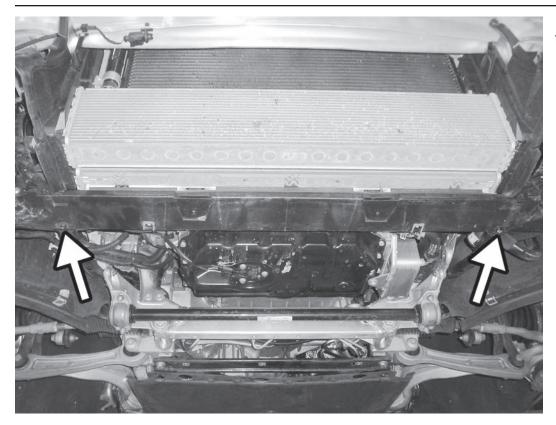
9) Carefully pull bumper cover forward and disconnect left and right fog light harness. Remove bumper cover.



10) Carefully remove the radiator ducting.







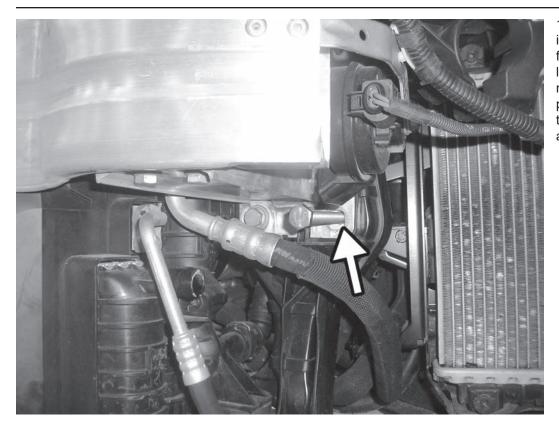
11) Remove 2x T30 Torx screws from bottom of radiator core support.



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



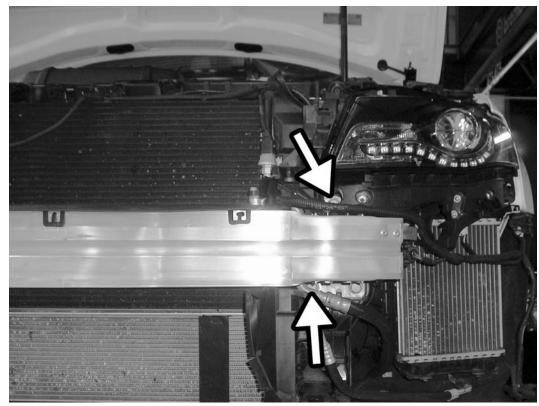




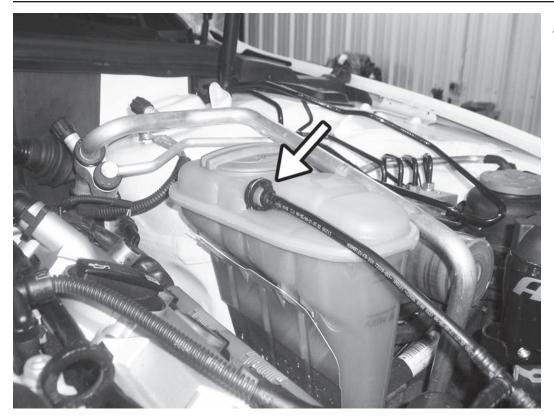
13) There are six 16mm bolts attaching the radiator core support to the front frame rails. ONLY remove the lower, outer bolts on both sides and replace these with the long bolts supplied with the APR Pulley kit. Only thread the bolts in to the same depth as the factory fastener.



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



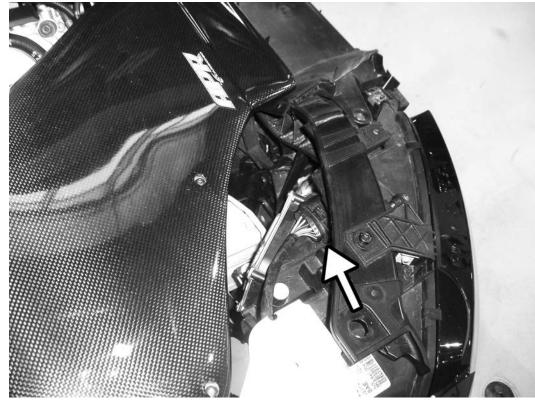




15) Disconnect coolant bleed line from expansion tank.



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.







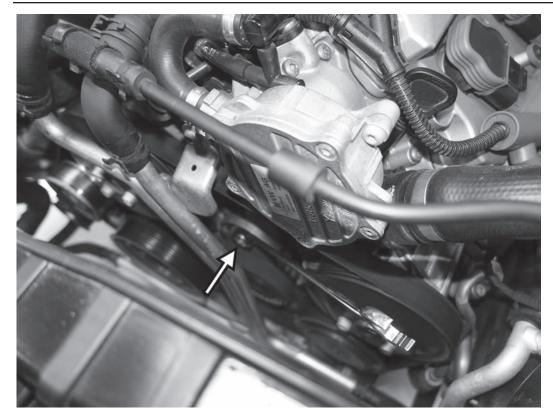
17) Remove front plastic cover from supercharger.



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







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.



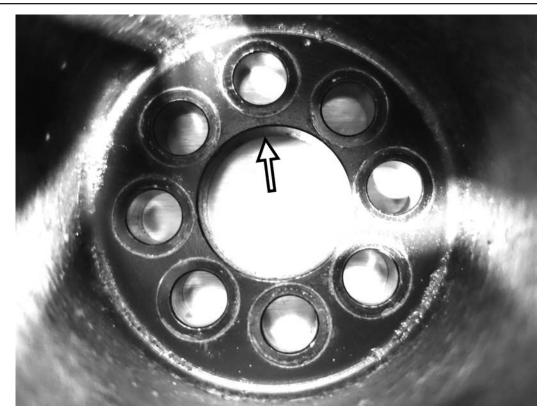




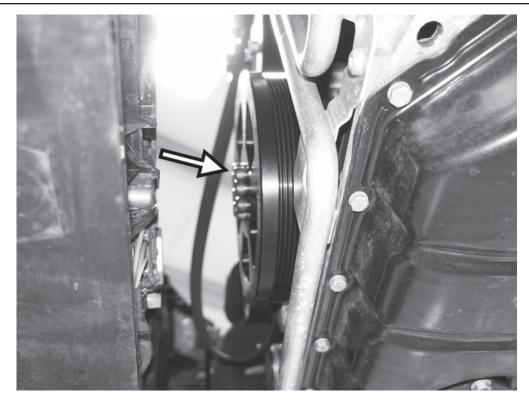
21) Install the 8x supplied bolts with washers into the APR crank pulley. Note that one of the holes on the APR pulley is slightly offset from the others.



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.



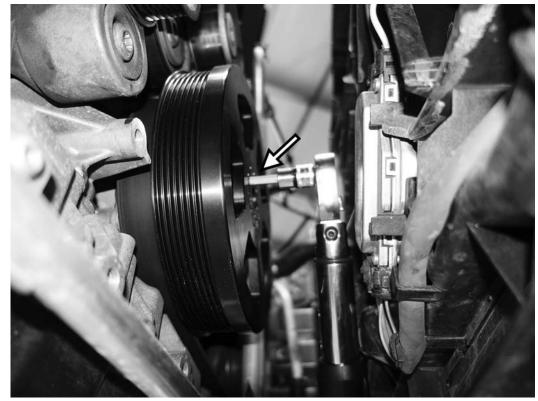




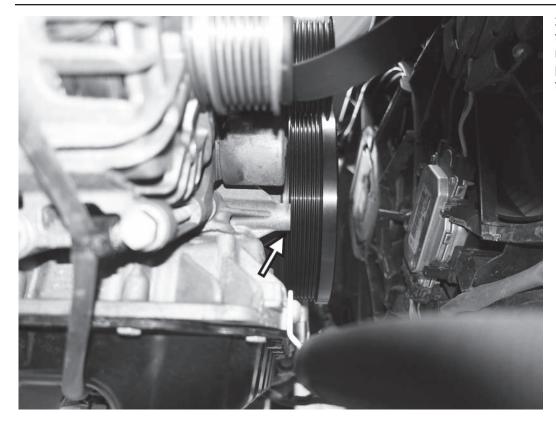
23) Place the APR pulley over the stock crankshaft pulley on the engine. Make sure that the offset hole in the APR pulley aligns with the offset hole in the stock pulley.



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.







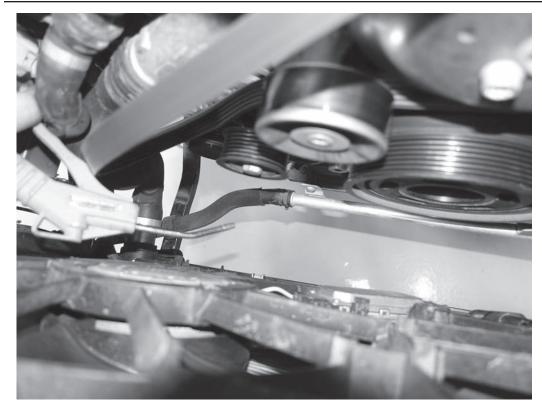
25) Observe how this post on the front of the engine block, just to the right side of the crank pulley, is in the path of the supercharger belt by a few millimeters.



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.



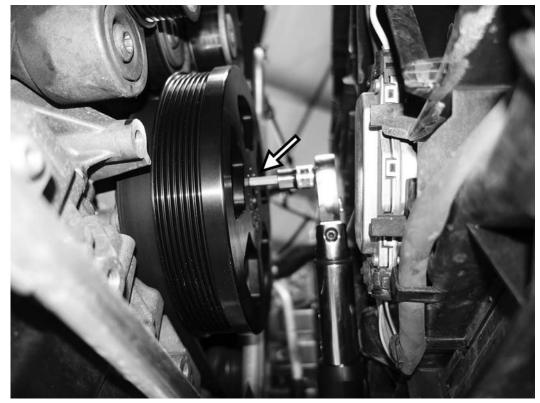




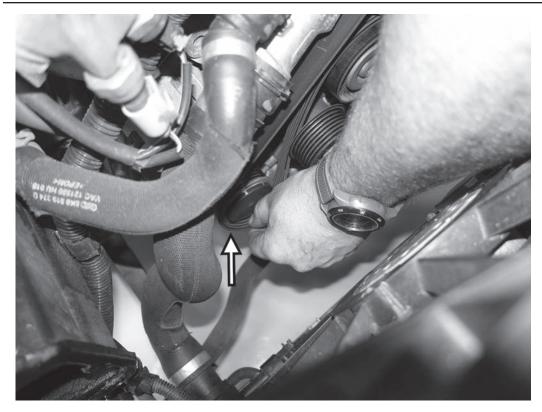
27) Use air or water to clean off any excess material from grinding the post off.



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







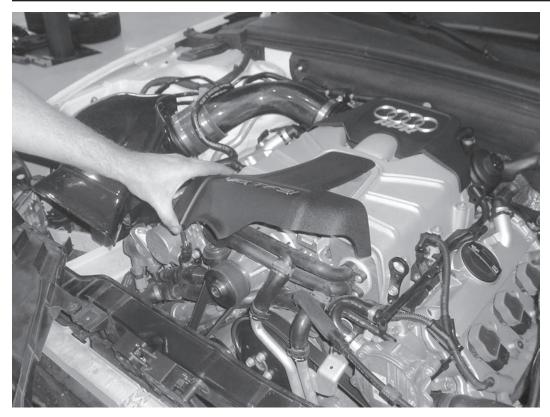
29) Reinstall the accessory belt by using a 17mm wrench to push down the accessory belt tensioner, and then slip the accessory belt over the alternator.



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



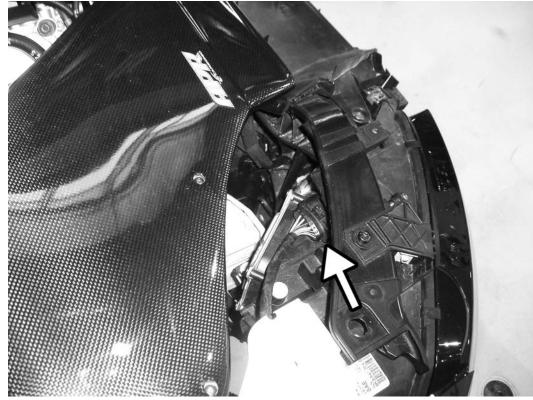




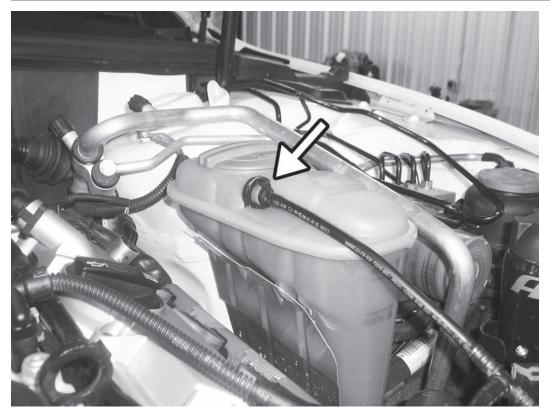
31) Reinstall the engine cover on the front of the supercharger.



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.



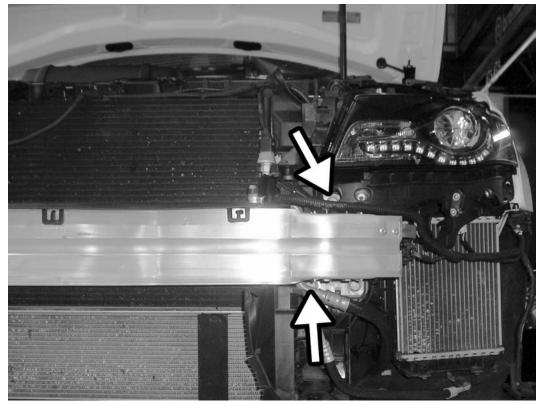




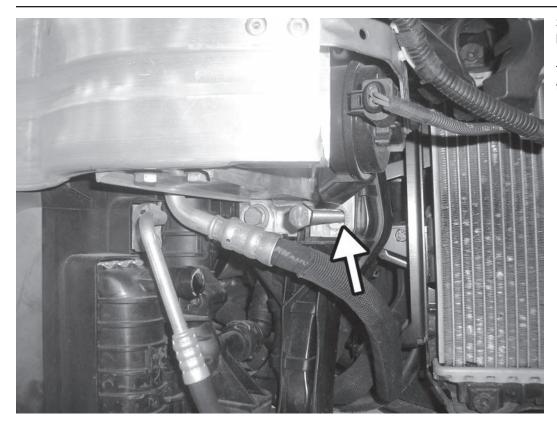
33) Reconnect the coolant hose to the front of the coolant reservoir.



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







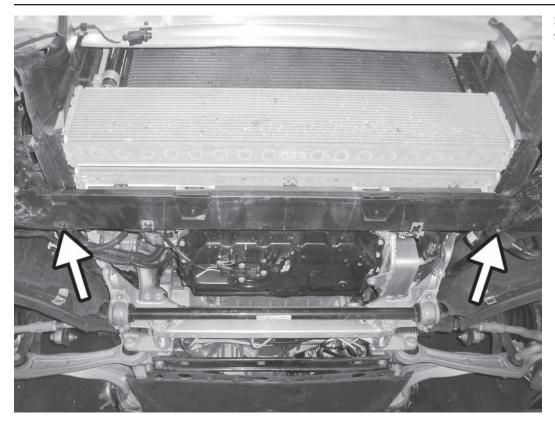
35) Remove the two long, supplied bolts and install the two remaining 16mm factory bolts in the frame rails. Tighten all six 16mm bolts holding the core support to the frame rails.



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



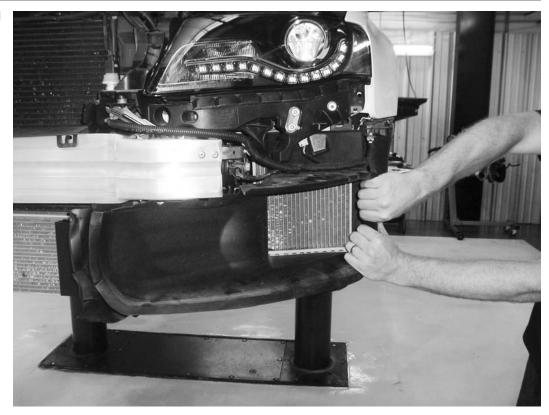




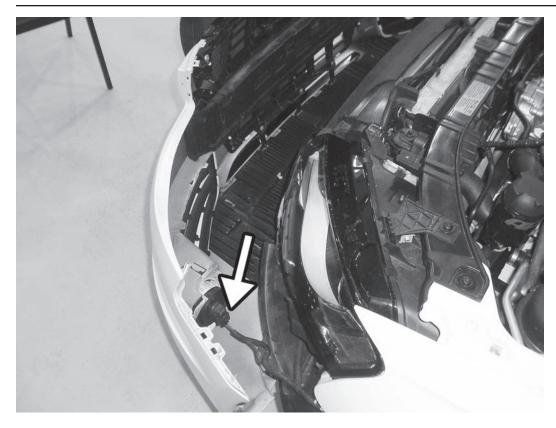
37) Install the 2x T30 Torx screws from bottom of radiator core support.



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







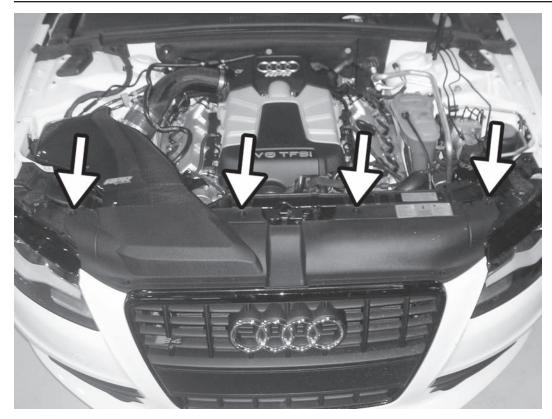
39) With an assistant, place the bumper cover back in front of the car. Reconnect the left and right fog light harness and bring the bumper back to its resting place on the core support.



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.



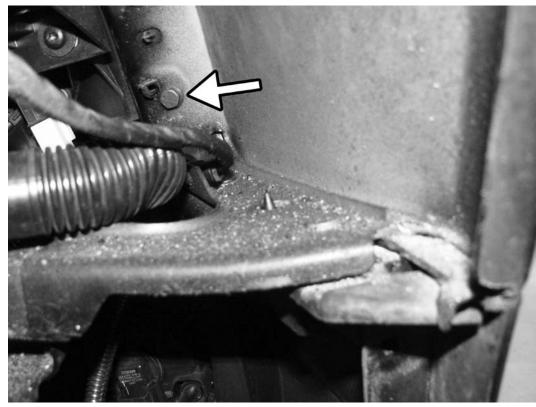




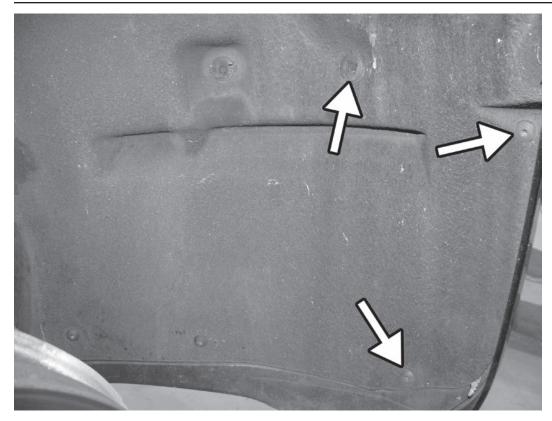
41) Reinstall the upper radiator trim cover with the 4x T30 Torx screws.



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



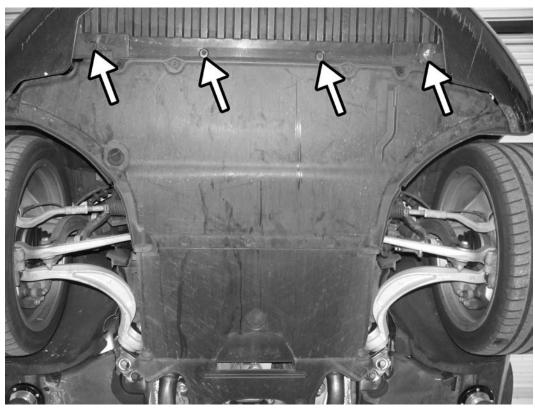




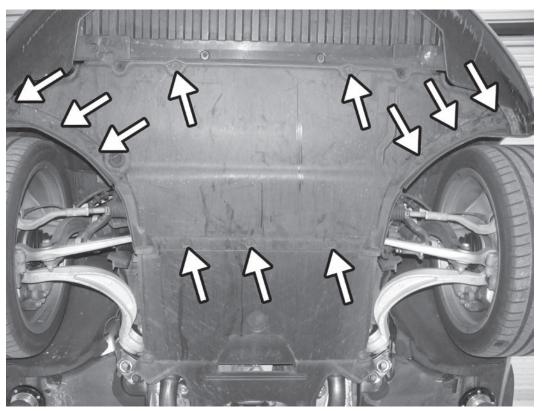
43) Reinstall the 2x outer T25 Torx screws from fender well liner and the outer plastic clip. Repeat on both sides.



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.







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





# V6 TFSI

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APR SUPERCHARGER PULLEY INSTALLATION INSTRUCTIONS

4800 US HWY 280 West Opelika, AL 36801

#### **APR, LLC** 4800 US HWY 280 West Opelika, AL 36801

Notes:

These instructions were written for an Audi S4, but other models (Audi A6, etc.) are similar.

When disassembling the car, be sure to keep and mark all fasteners so they can be reused. It is recommend that you get some kind of compartmented tray to organize the fastners, such as a fishing tackle box or several large ice cube trays. Fasteners that are not reused for reinstallation are noted in the instructions.

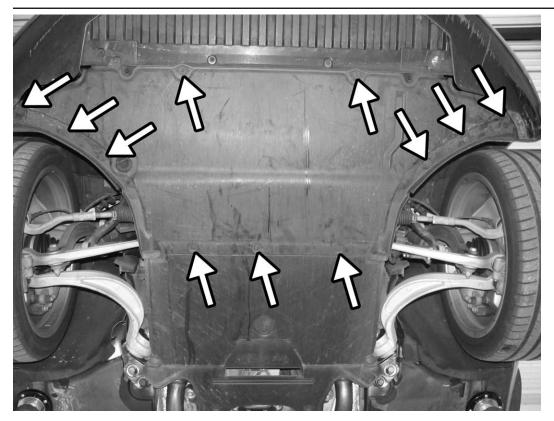
These instructions assume that you have basic mechanical skills and several varieties of the tools listed in order to install the kit. If you have any questions about the install, feel free to contact your APR representative.



1) Place APR pulley in 350° toaster oven (or equivalent) for one hour (or more). Place the oven on a cart to ensure it can be moved close to the vehicle. Exceeding 350° can damage the finish on the pulley. 2) Securely lift vehicle. If a vehicle lift is not used, secure the vehicle with jack stands. Remove both front wheels.

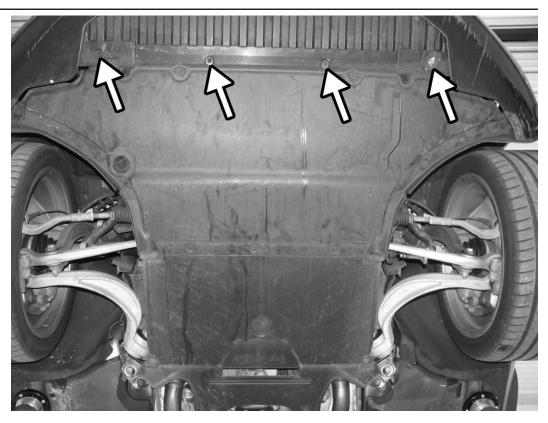


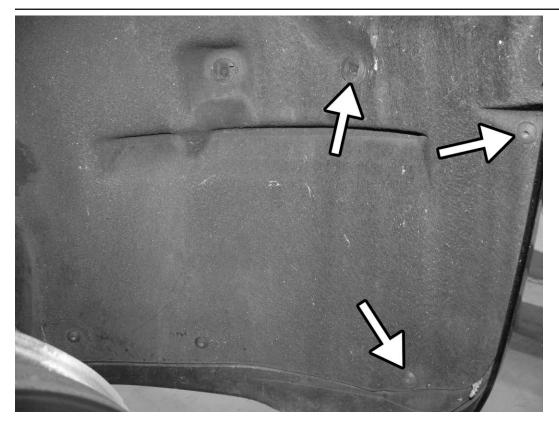
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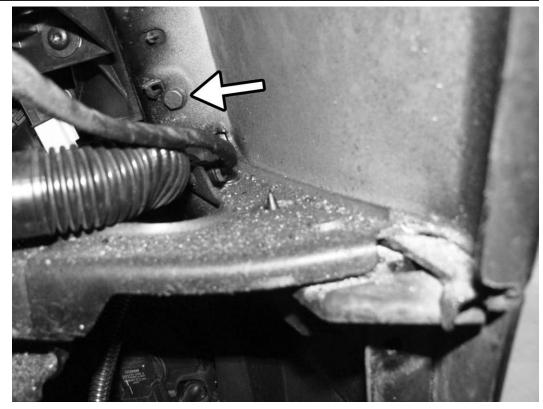
3) Remove the 11 quarter turn fasteners from belly pan with a screwdriver and remove the belly pan.

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

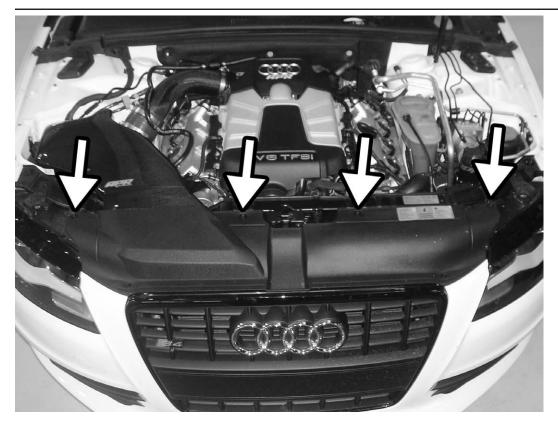




5) Remove 2 outer T25 Torx screws from fender well liner and the outer plastic clip. Repeat on both sides. 6) Pull back fender liner and remove the 10mm bolt from bumper cover. Repeat on both sides.

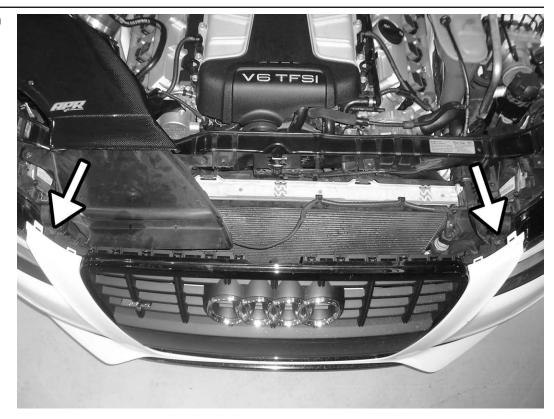


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7) Remove 4 T30 Torx screws from upper bumper trim cover and remove the cover.

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



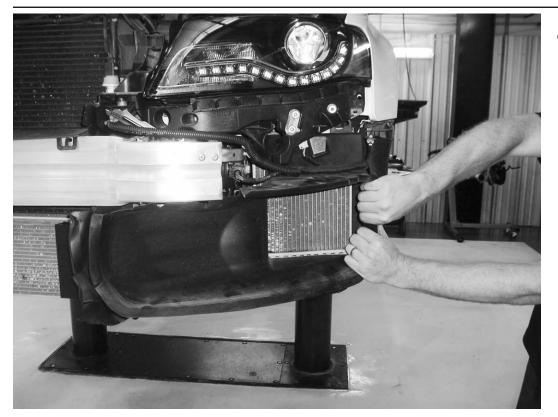
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9) Carefully pop the upper corner of bumper cover out. Repeat on opposite side. 10) Carefully pull bumper cover forward and disconnect left and right fog light harness. Remove bumper cover.

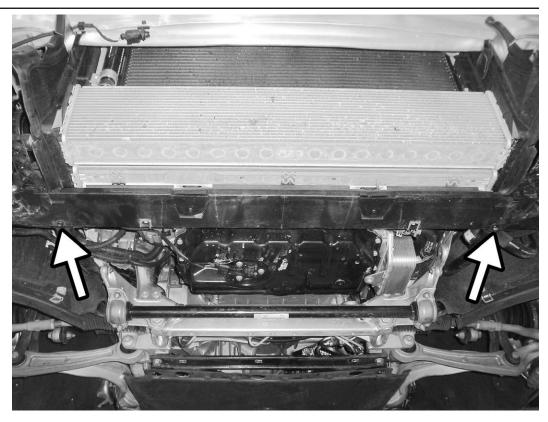


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11) Carefully remove the radiator ducting.

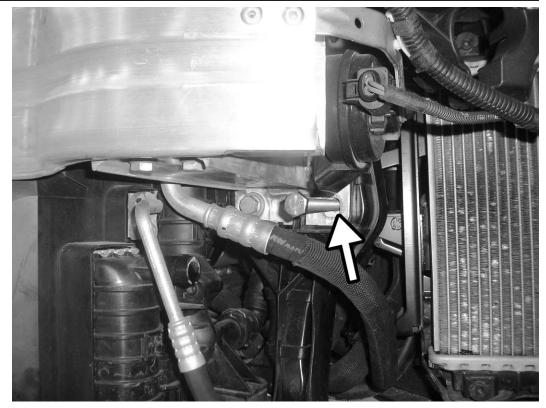
# 12) Remove 2 T30 Torx screws from bottom of radiator core support.

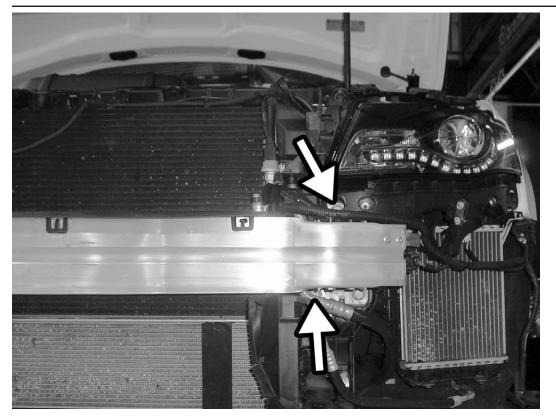




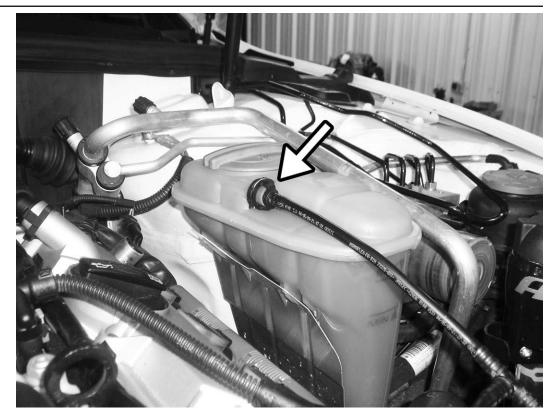
13) Remove 2 T30 Torx screws from top of radiator core support.

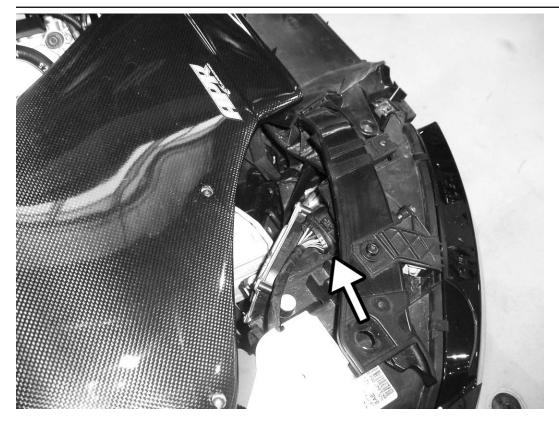
14) There are six 16mm bolts attaching the radiator core support to the front frame rails. ONLY remove the lower, outer bolts on both sides and replace these with the long bolts supplied with the APR Pulley kit. Only thread the bolts in to the same depth as the factory fastener.





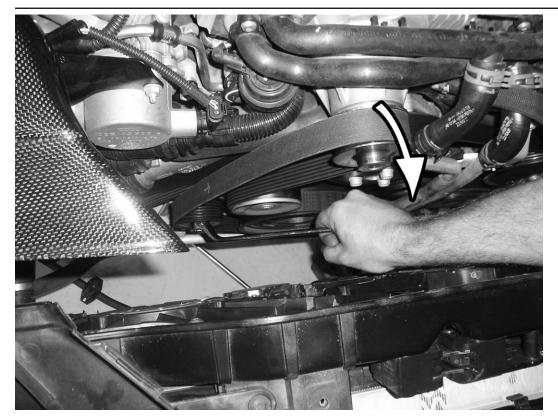
15) Remove the remaining four 16mm bolts holding the core support to the frame rails. 16) Disconnect coolant bleed line from expansion tank.





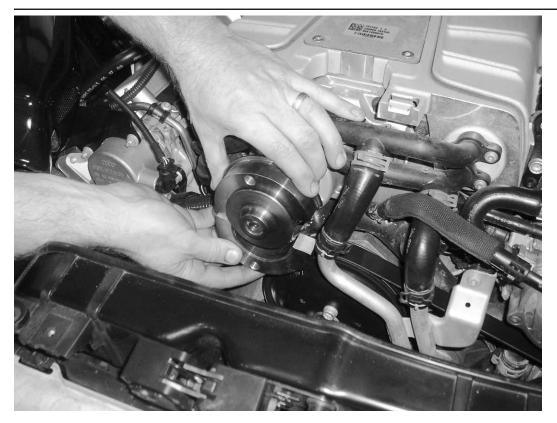
17) Carefully pull the radiator core support forward slightly and disconnect right and left headlight harnesses. The core support can then be pulled fully forward on the two bolts previously installed. 18) Remove front plastic cover from supercharger.





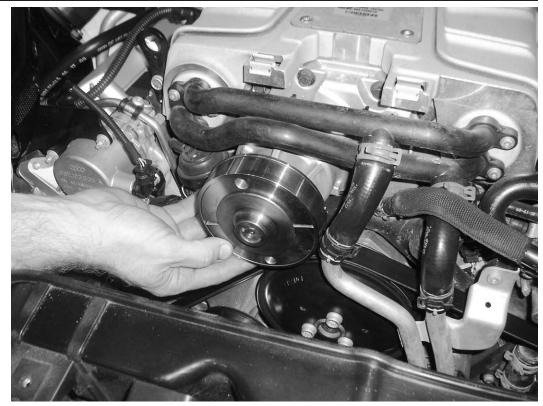
19) Using a 16mm wrench, release tension on supercharger's belt tensioner by pushing down and carefully remove the belt. 20) Remove plastic cap from stock supercharger pulley.





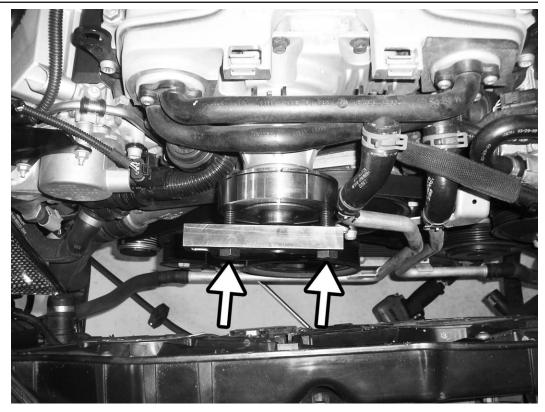
21) Install the supplied "half-moon" pieces around stock pulley. One half moon set fits the stock pulley and the other set fits the APR pulley.

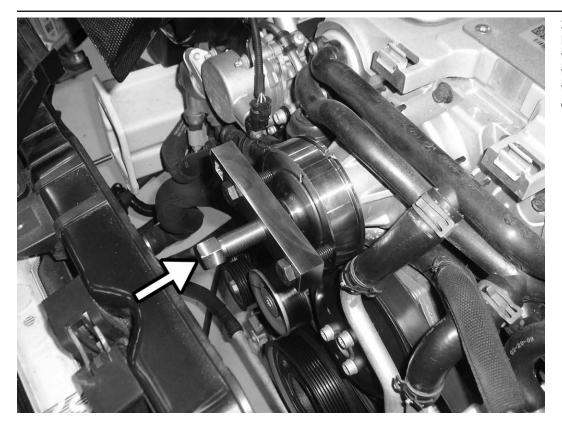
22) Install supplied "ring" around the two half-moon pieces that are installed on the pulley. This may require the slight tap of a hammer.





23) Generously apply supplied Liqui Moly to end of the supercharger's drive shaft. 24) Install supplied "block" with the two supplied M10x1.5-50 bolts to "half moon" pieces. Thread bolts hand tight until the "block" bottoms out against pulley.





25) Apply a generous amount of Liqui Moly to supplied "screw" on both the end of it and its threads. Hand thread the screw in the "block" until the end touches the supercharger's drive shaft. 26) Install a 1/2" breaker bar into "block" and connect to "screw" with a 1/2" ratchet (19mm). Hold the breaker bar and tighten "screw" until pulley is removed.





27) Now that the stock pulley is removed, move the oven close to car so that pulley can be installed as quickly as possible.

28) While wearing a high temperature glove remove pulley from oven and install it on supercharger's drive shaft. The pulley will bottom out on shaft. Be sure to hold it in place for a few seconds to ensure it doesn't move.

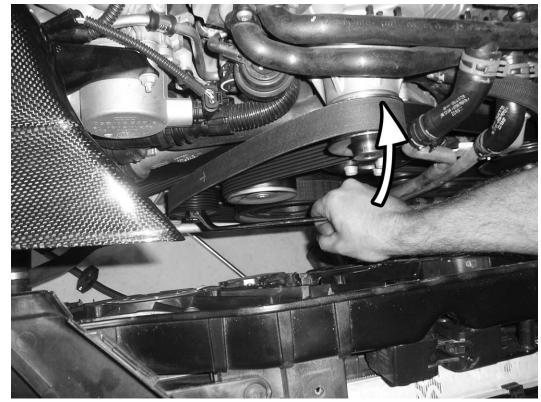


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29) Cool the assembly with compressed air.

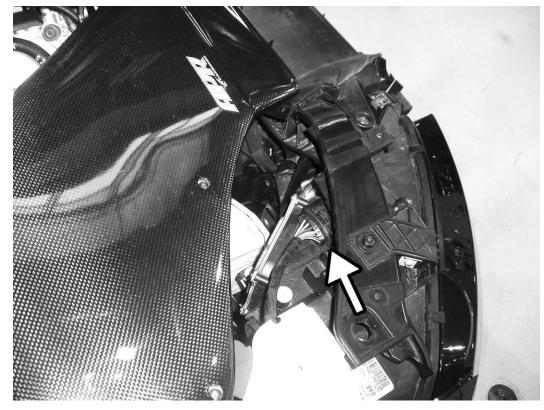
30) Install the supercharger's drive belt after lifting the tensioner arm with a 16mm wrench.

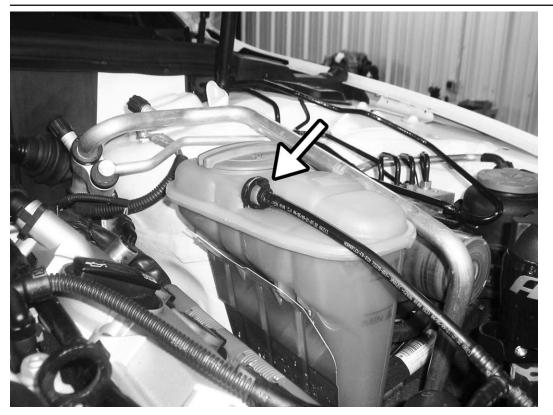




31) Reinstall plastic cap on the APR pulley (if so desired).

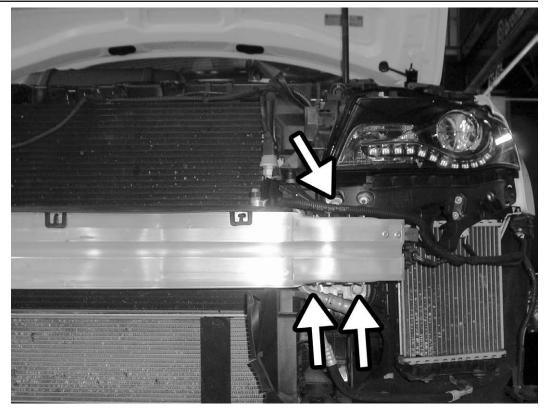
32) Push radiator core support back into place, making sure to reconnect the left and right headlight harnesses.



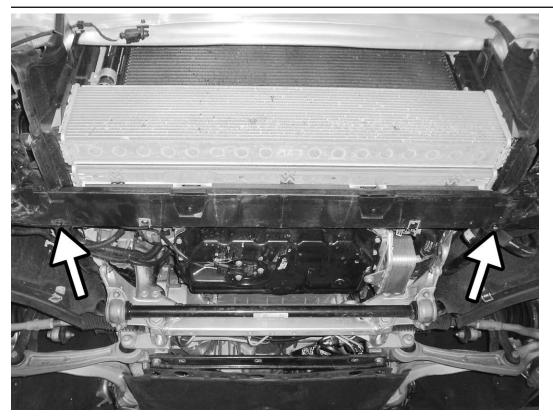


33) Reconnect coolant bleed line to expansion tank.

34) Reinstall the four 16mm bolts holding the radiator core to the frame rails. Then remove the long APR supplied bolts and reinstall the last two stock bolts.



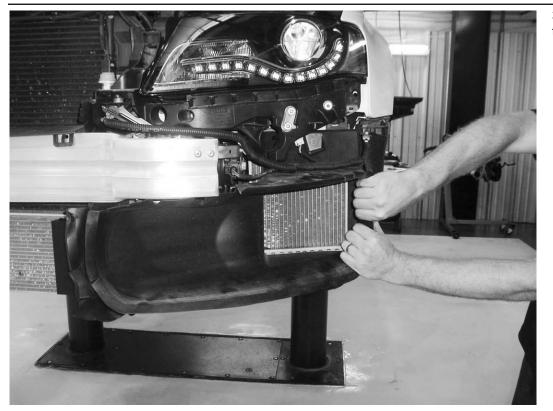
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35) Reinstall 2 T30 Torx screws in the bottom of radiator core support.

36) Reinstall the front plastic cover on the supercharger. Reinstall the 2 T30 screws on the top corners of the radiator core support.



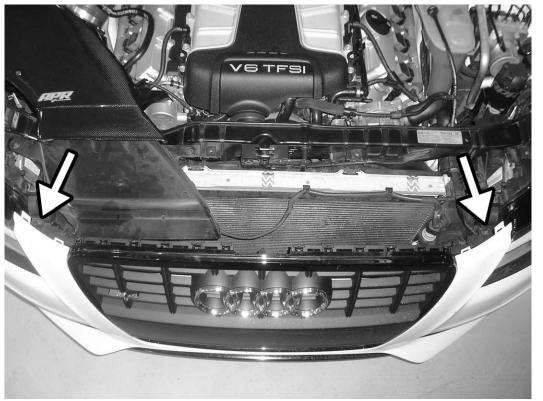


37) Reinstall the radiator ducting on the side radiator.

**APR, LLC** 4800 US HWY 280 West Opelika, AL 36801 38) Reinstall bumper cover, being sure to reconnect the left and right fog light harnesses.



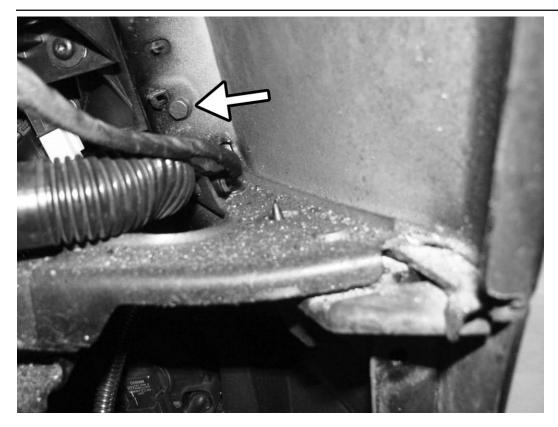
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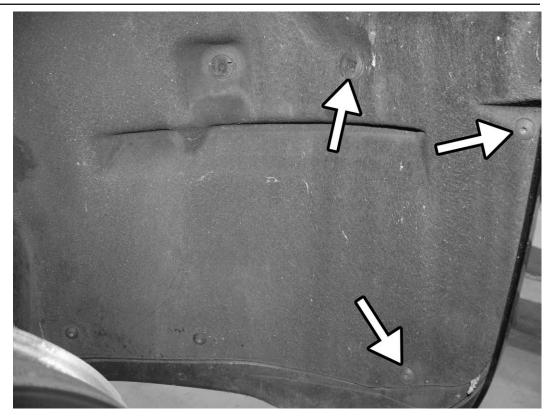
39) Reinstall 2 T25 Torx screws from top of bumper cover.

40) Reinstall upper bumper trim and then fasten with the 4 T30 Torx screws.





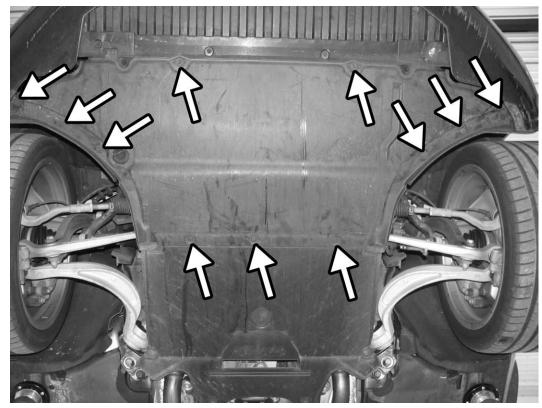
41) Pull back fender liners and reinstall the 10mm bolts on both sides of the bumper cover. 42) Reinstall 2 T25 Torx screws from fender well liner and reinstall the plastic clip.





43) Reinstall 4 T30 screws from bottom of bumper cover.

44) Reinstall the belly pan and the 11 quarter turn fasteners with a screwdriver.





45) Reinstall both front wheels. Remove vehicle from lift (or jack stands). Torque the wheel bolts to 120NM (90Ib-ft). Enjoy!

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