



B5 Audi S4

Side Mount Intercooler installation



Disclaimer:

These installation instructions are to be used as a guide only. It is at the reader and/or installer's discretion to ensure that you are working in safe conditions, with the proper tools and equipment to do the installation.

Never, under any circumstances should work be performed under a raised vehicle, unless the said vehicle is properly supported with appropriate jack-stands, and/ or ramps.

Under no circumstances will Innovative Performance Products assume any liability or accept any claims for injury or damage done to vehicles or persons while installing our intercoolers.

We hope that you will find the following instructions easy to read and follow.



Lift the car and secure it with jack stands. Ramps will also work. Remove lower engine splash shield



Remove side grilles from bumper. Use a slotted screwdriver through the grille inserts and pry the two tabs behind the inner most edge of each of the inserts.



Remove 3 bolts securing each headlight in place. Use caution when removing bolt behind the turn signal bulbs, as they are hard to retrieve if dropped.



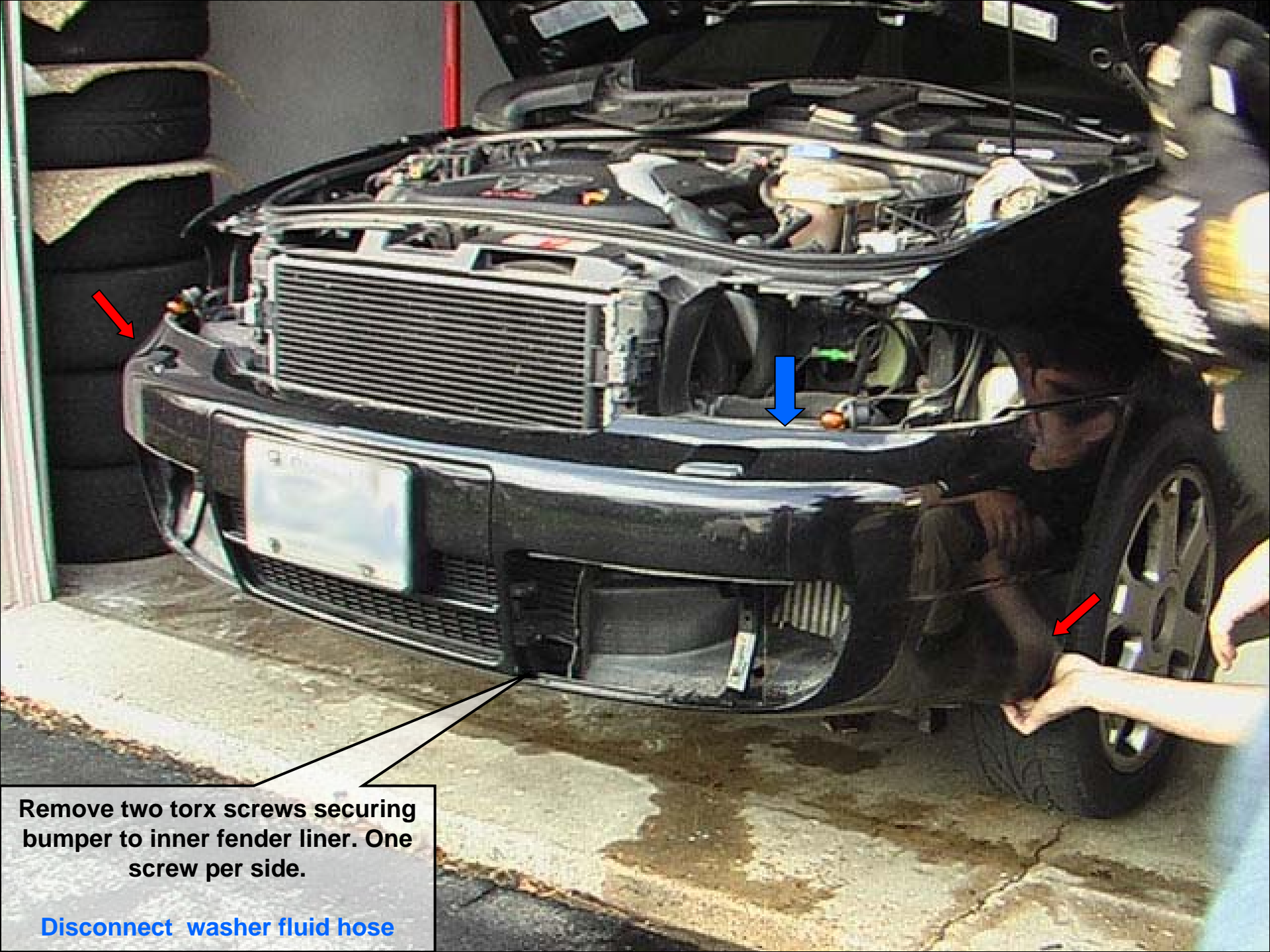
Locating Dowel



Disconnect headlight plug. From the turn signal end, pull the headlight forward slightly, and then slide outwards to remove from inner locating dowel.



Remove headlight and disconnect turn signal bulb connector. You can also remove the bulb and connector together.



Remove two torx screws securing bumper to inner fender liner. One screw per side.

Disconnect washer fluid hose



Using a 6mm Hex bit, remove bolts (2) securing bumper to bumper shocks. One per side.



**Removing bumper securing bolts
(continued)**



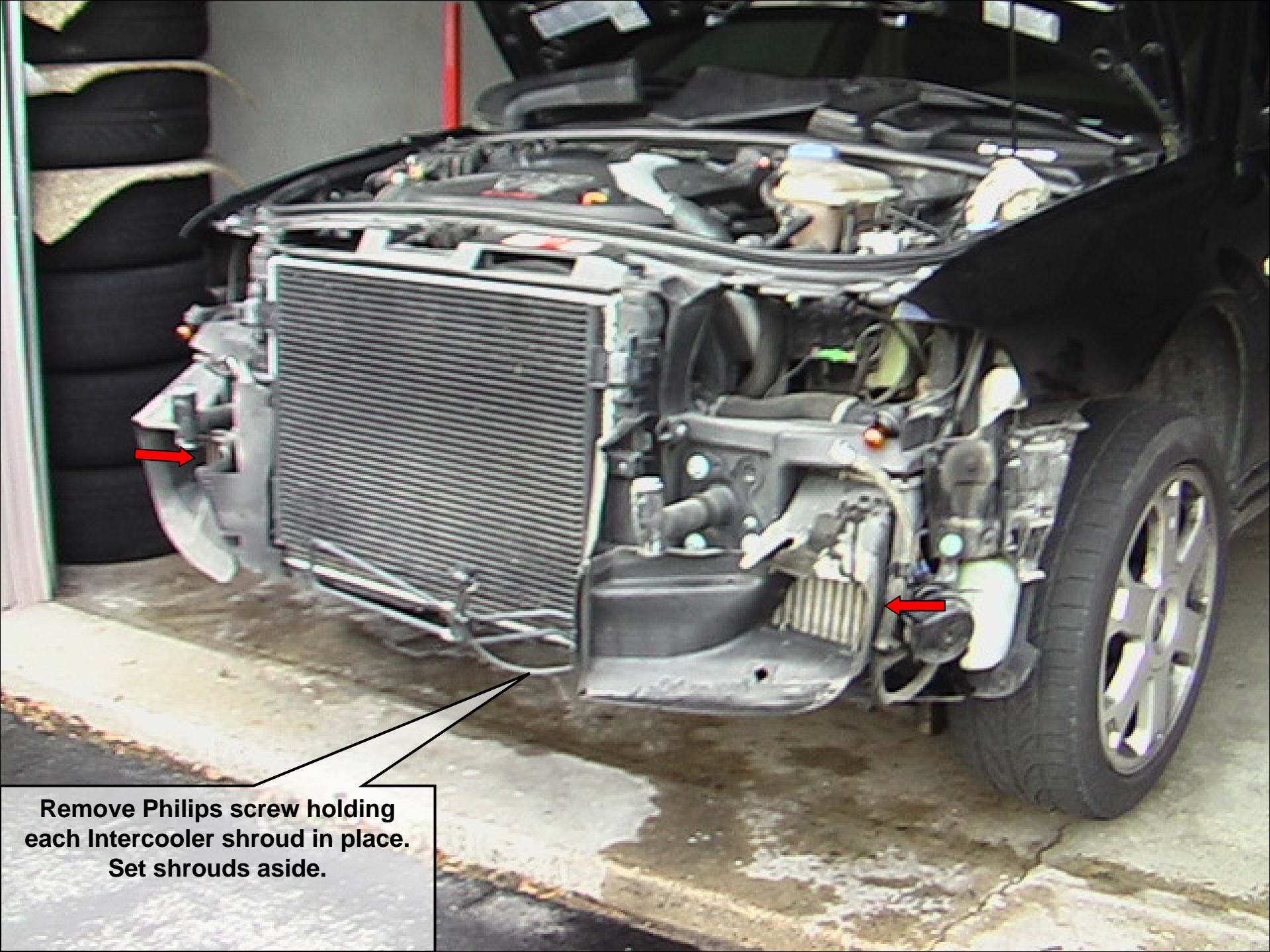
Pull upwards and outwards on the rear outer corner of the bumper. This will unclip the lower part of the bumper from the fender mount.



Push downwards and outwards on the same corner of the bumper to unclip the top section from the fender mount.



Repeat on other side of car and carefully remove bumper, taking care not to scratch the fenders in the process.

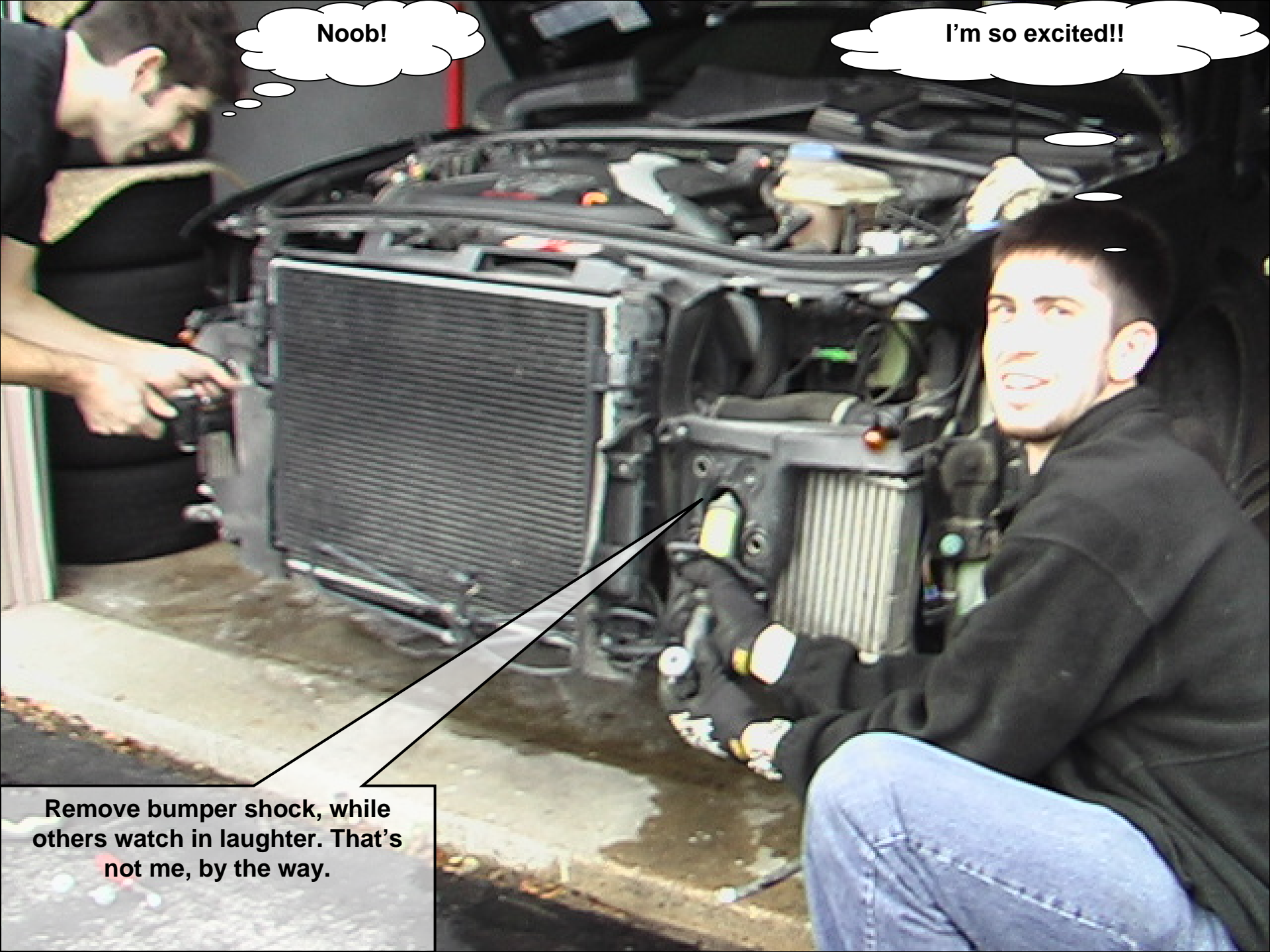


Remove Philips screw holding each Intercooler shroud in place. Set shrouds aside.



Remove three Torx bolts securing each bumper shock to the radiator support.

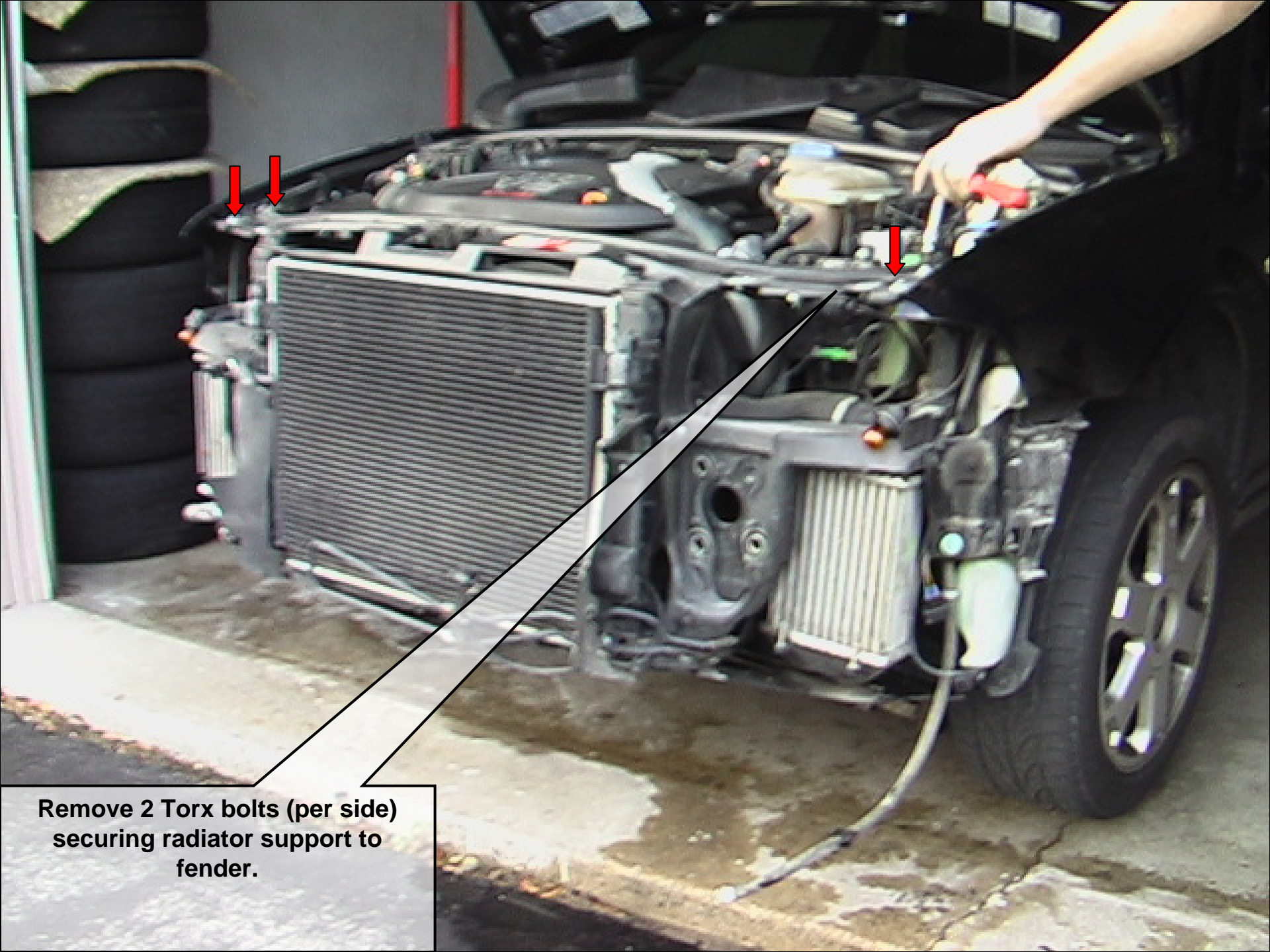
Remove 10mm Nut.



Noob!

I'm so excited!!

Remove bumper shock, while others watch in laughter. That's not me, by the way.



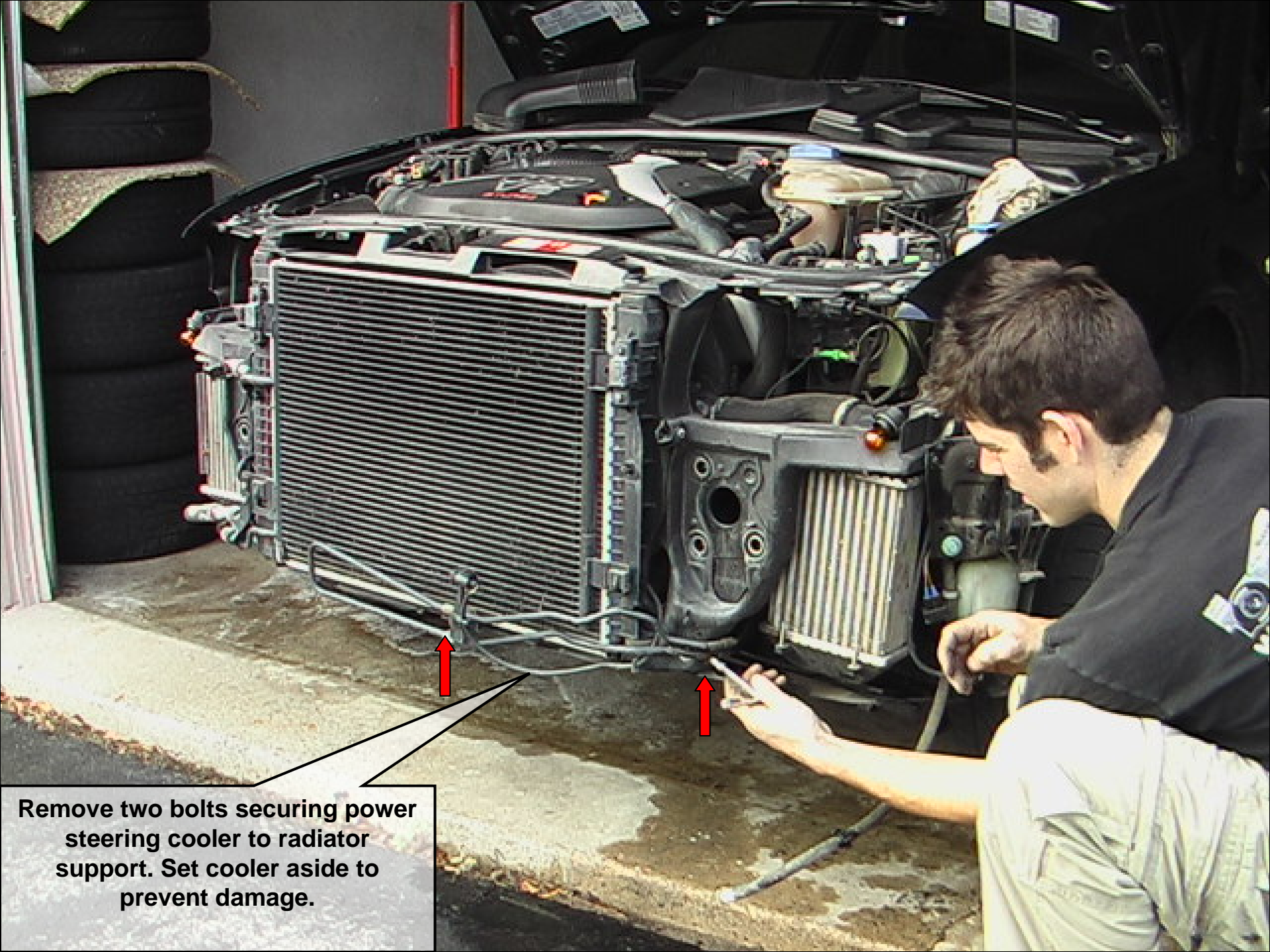
**Remove 2 Torx bolts (per side)
securing radiator support to
fender.**



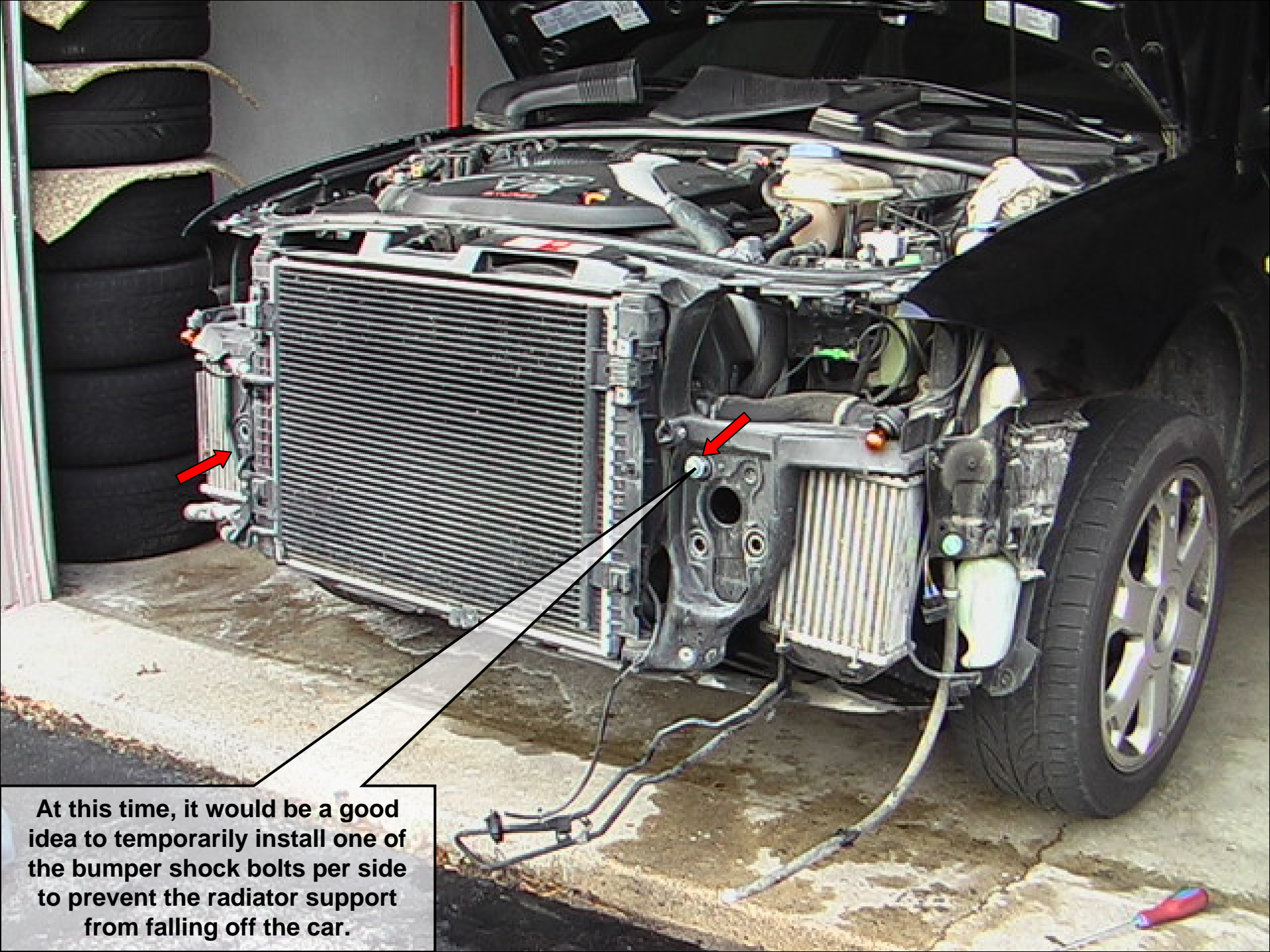
Remove third torx bolt securing radiator support to fender.



Using Philips screwdriver, remove radiator air flaps. NOTE their orientation.

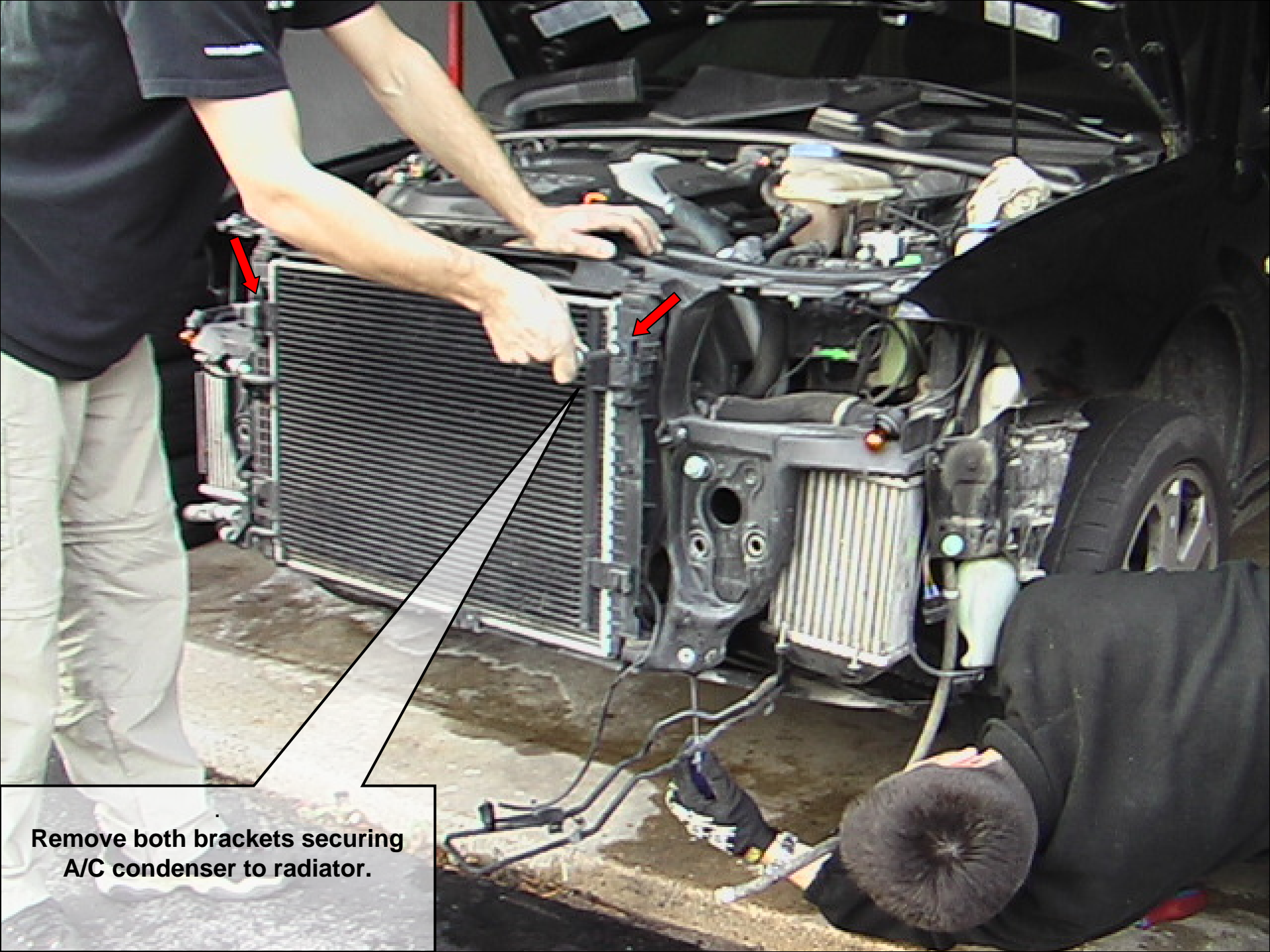


Remove two bolts securing power steering cooler to radiator support. Set cooler aside to prevent damage.

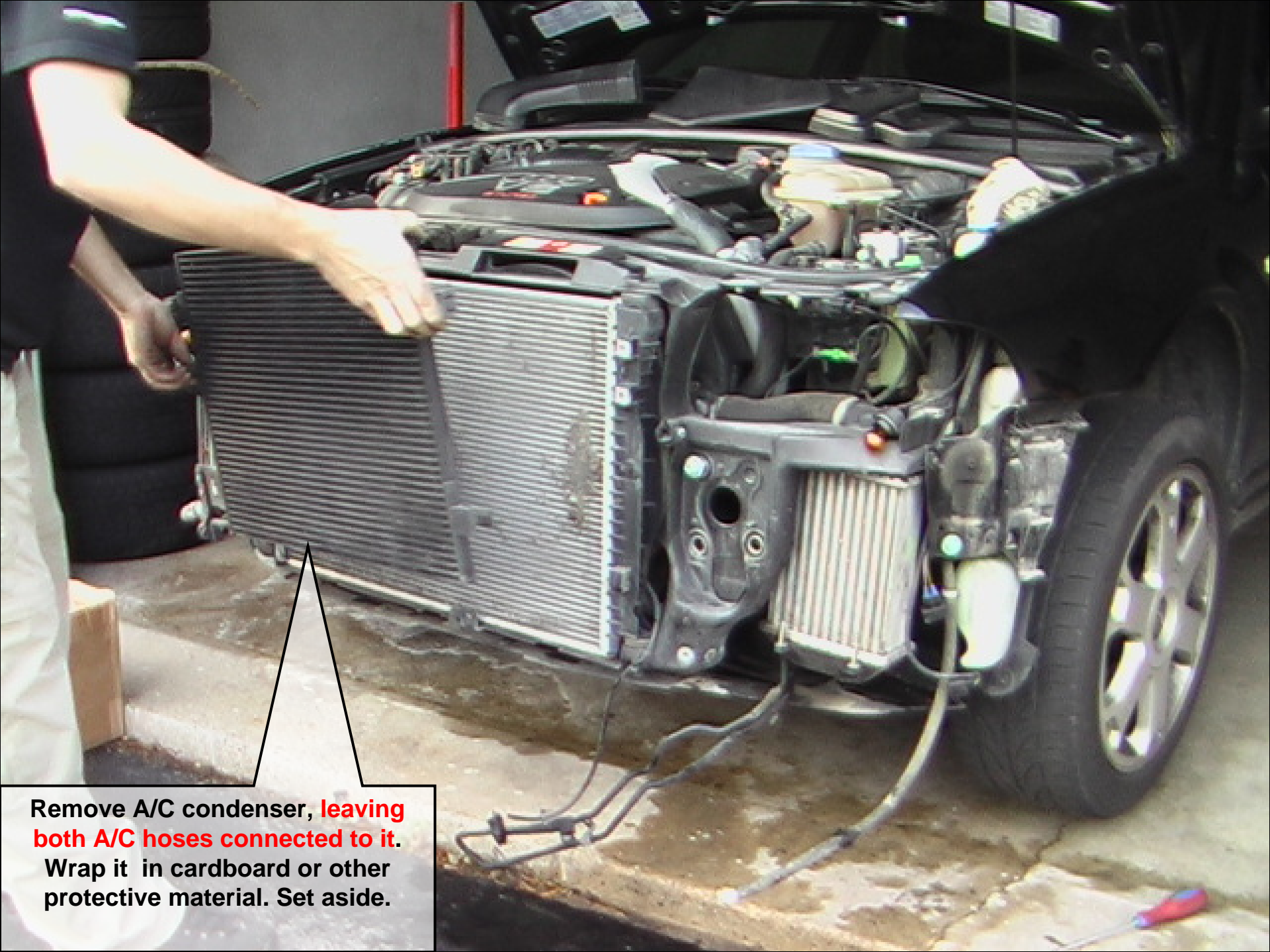


At this time, it would be a good idea to temporarily install one of the bumper shock bolts per side to prevent the radiator support from falling off the car.

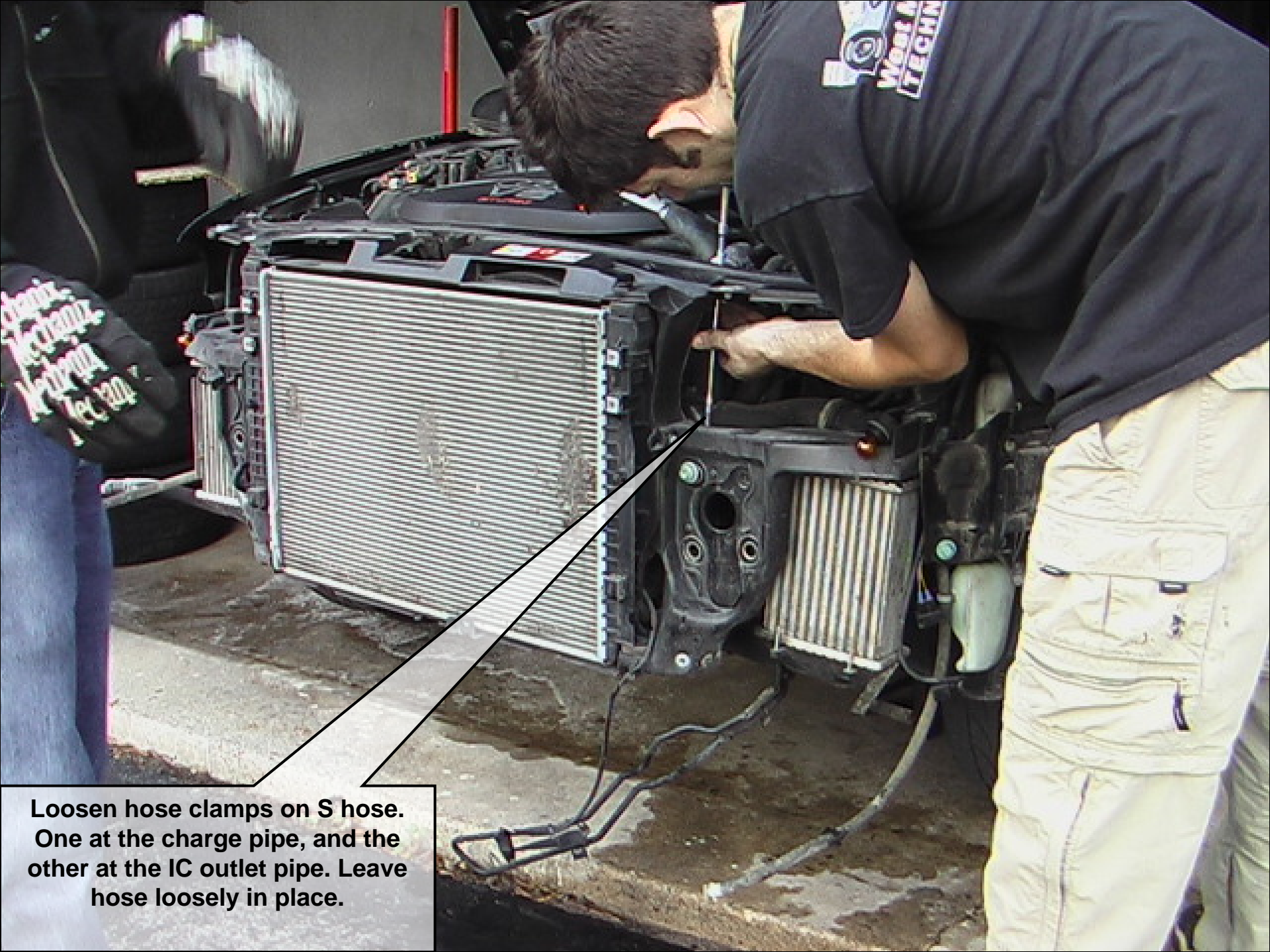




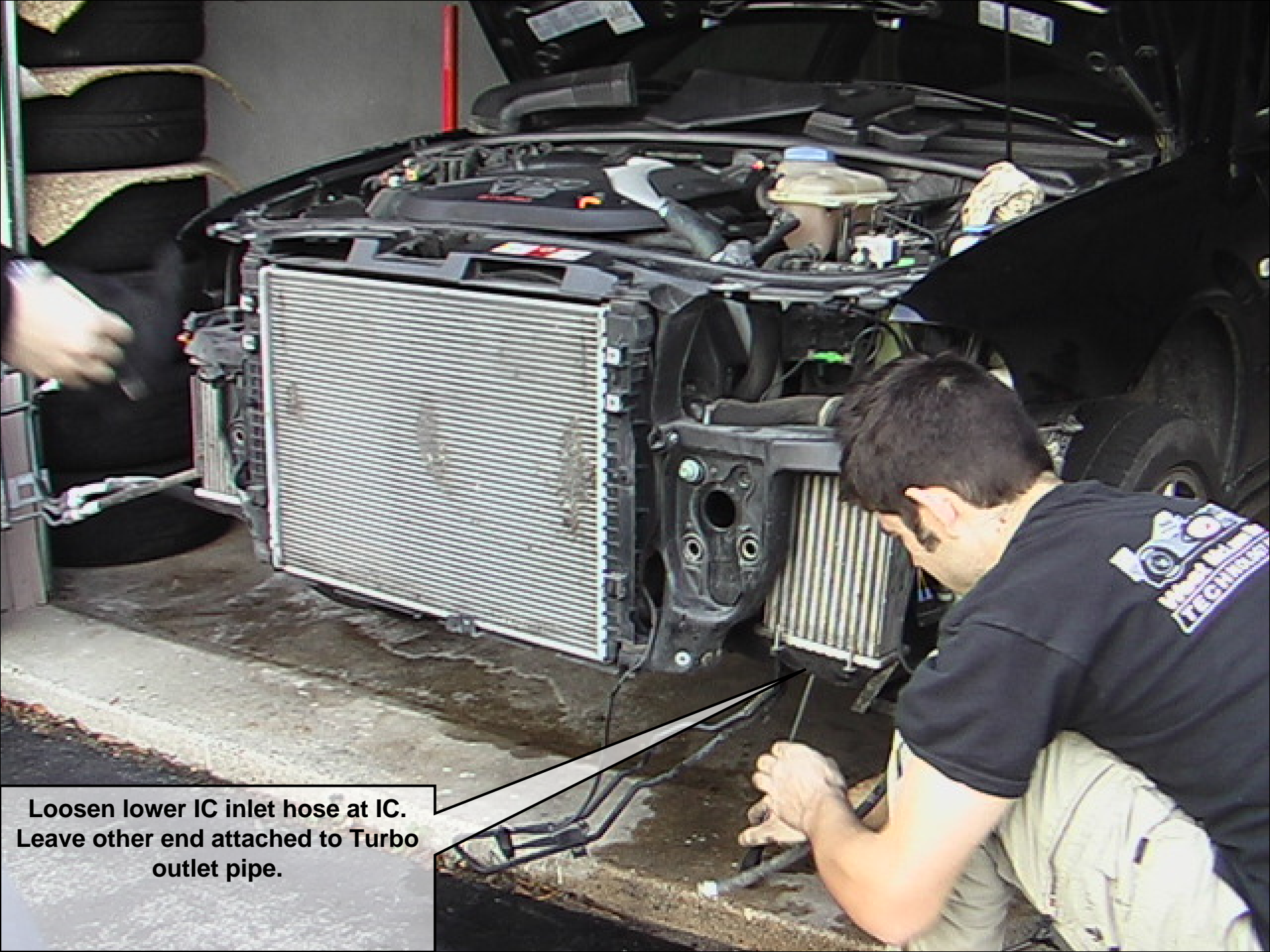
**Remove both brackets securing
A/C condenser to radiator.**



Remove A/C condenser, **leaving both A/C hoses connected to it.** Wrap it in cardboard or other protective material. Set aside.



**Loosen hose clamps on S hose.
One at the charge pipe, and the
other at the IC outlet pipe. Leave
hose loosely in place.**



**Loosen lower IC inlet hose at IC.
Leave other end attached to Turbo
outlet pipe.**



Remove the temporarily installed bolt on the left side of the radiator support. Have an assistant hold the radiator support in place, while preparing for IC removal.



Pull radiator support away from car, taking care not to damage any part of the support/ fender/ radiator hoses.



Once there is adequate room, begin removing IC. Pull forward to dislodge lower mounting dowel. Push upwards to dislodge upper mounting dowels (x2)



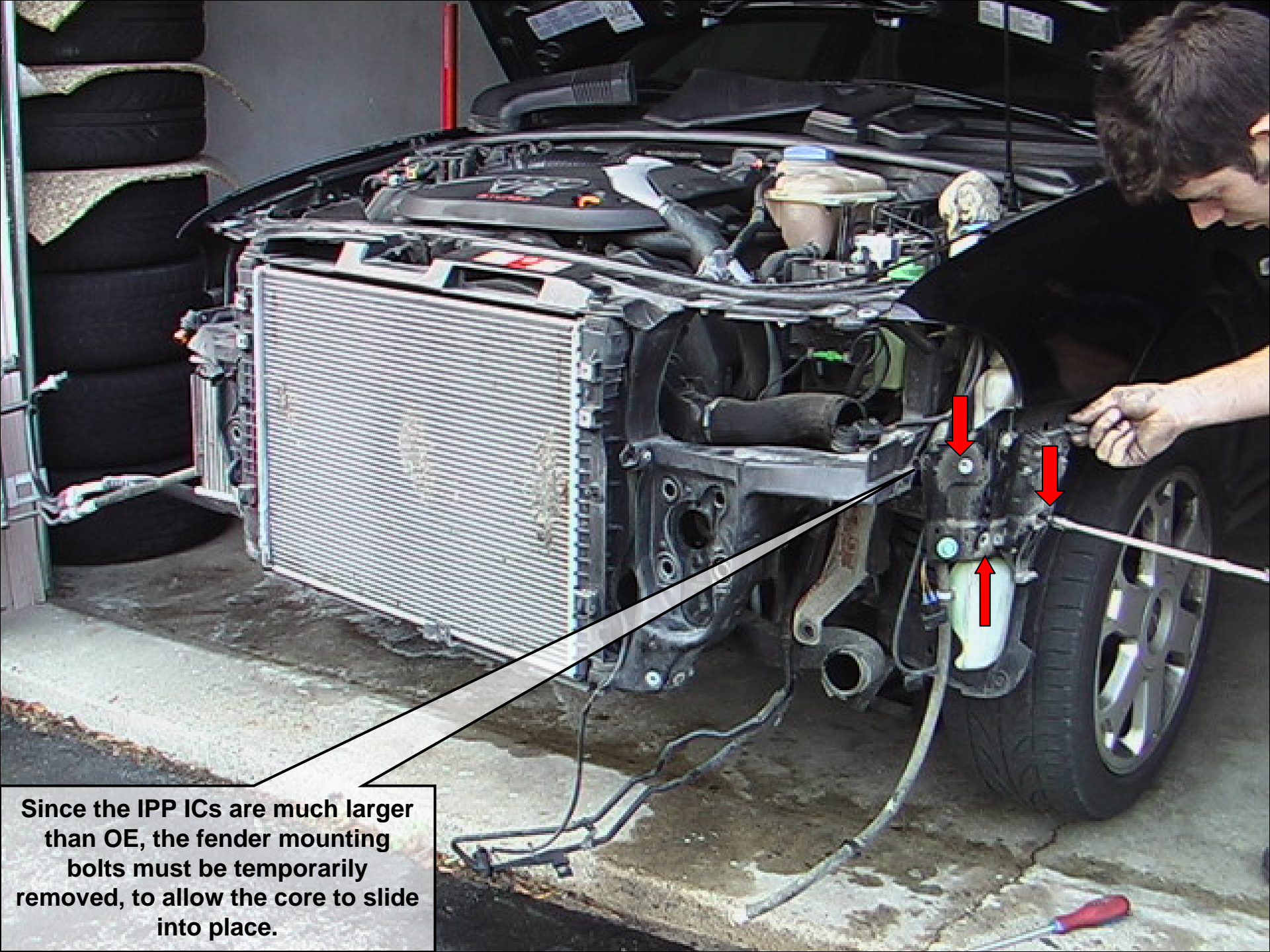
Remove IC taking care not to bump the core into other objects on the car.



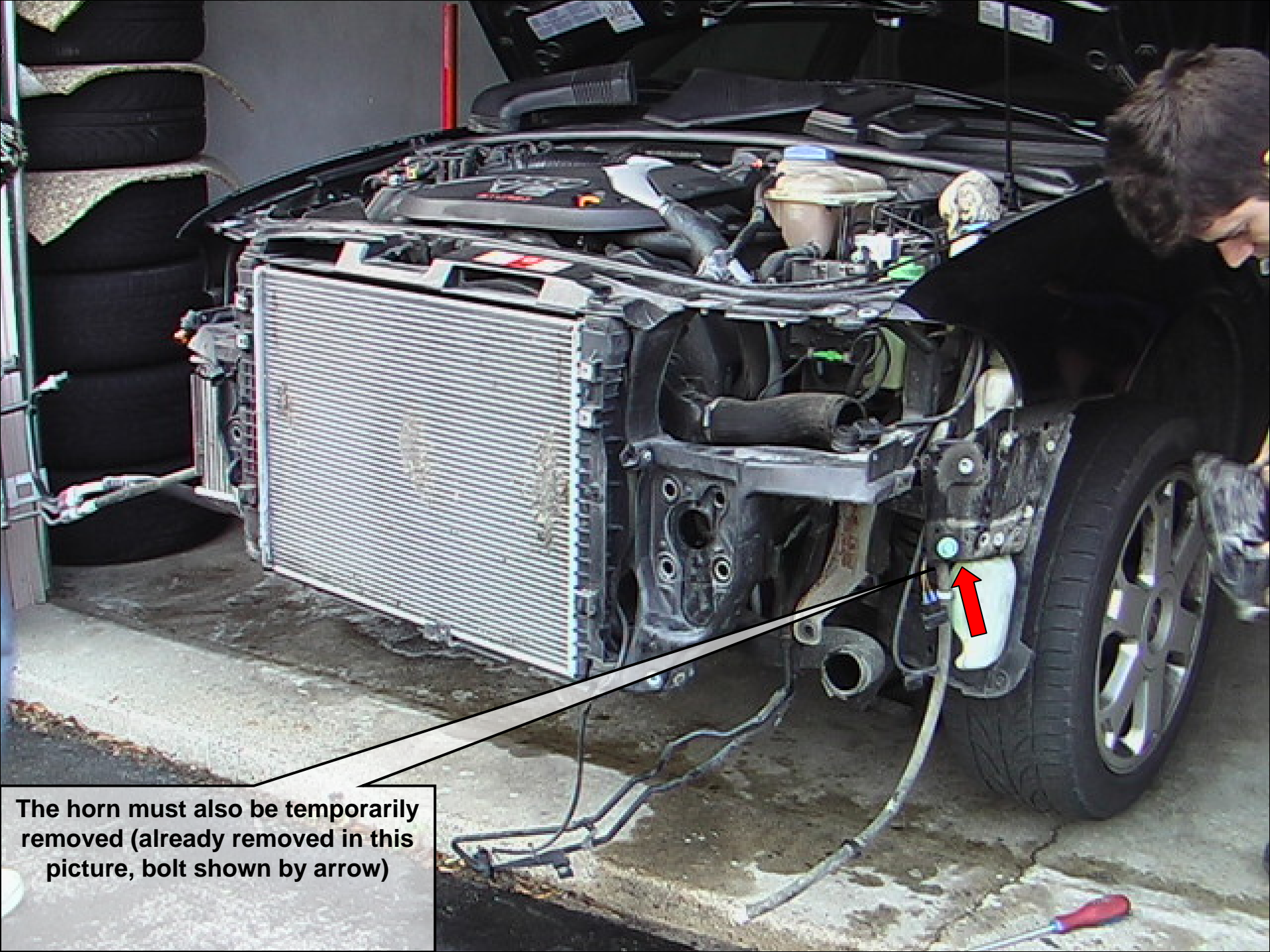
The radiator support can temporarily be set on the car while prepping for the IPP Intercooler install.

I sure hope he knows
what he's doing!!





Since the IPP ICs are much larger than OE, the fender mounting bolts must be temporarily removed, to allow the core to slide into place.



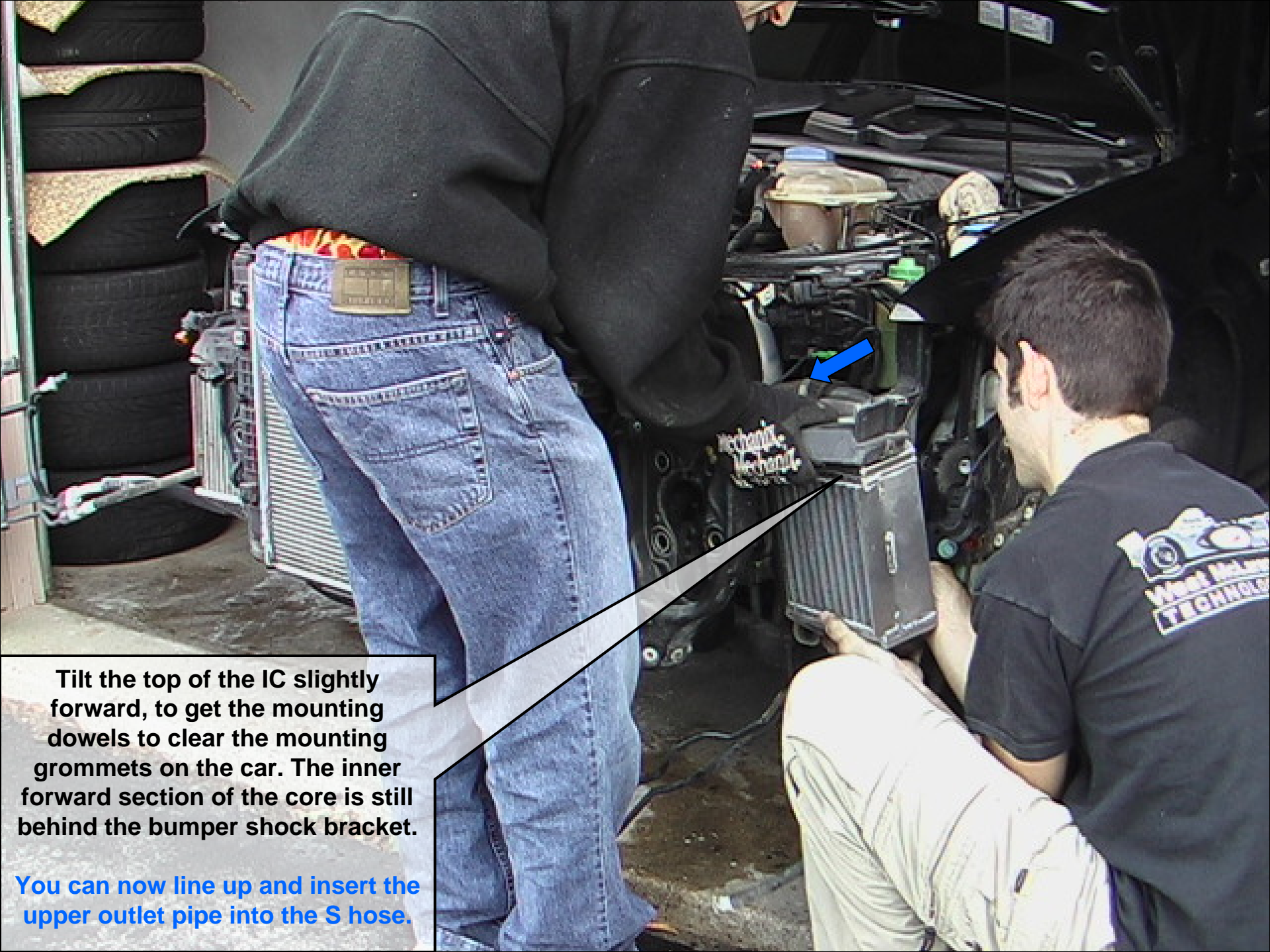
The horn must also be temporarily removed (already removed in this picture, bolt shown by arrow)



Pull one side of radiator support forward once again. **Note the orientation of the IC during initial approach.** The IC outlet hose is already on the car.



By this time, the inner forward edge of the core is behind the bumper shock bracket, against the frame rail. **EXTREME** care must be taken not to damage the core during this process.



Tilt the top of the IC slightly forward, to get the mounting dowels to clear the mounting grommets on the car. The inner forward section of the core is still behind the bumper shock bracket.

You can now line up and insert the upper outlet pipe into the S hose.



Push the upper dowels down into the rubber grommets. Push the lower dowel back into the lower mounting grommet.

Install the lower IC inlet hose.



RE-install the radiator support onto the car. You may need to lift the support up slightly to get over the outlet tank, as this area of the IC is VERY tight on the car.

Install one bumper shock bolt and leave loose.



Ensure that driver's side of radiator support is now temporarily fastened with one bumper shock bolt.

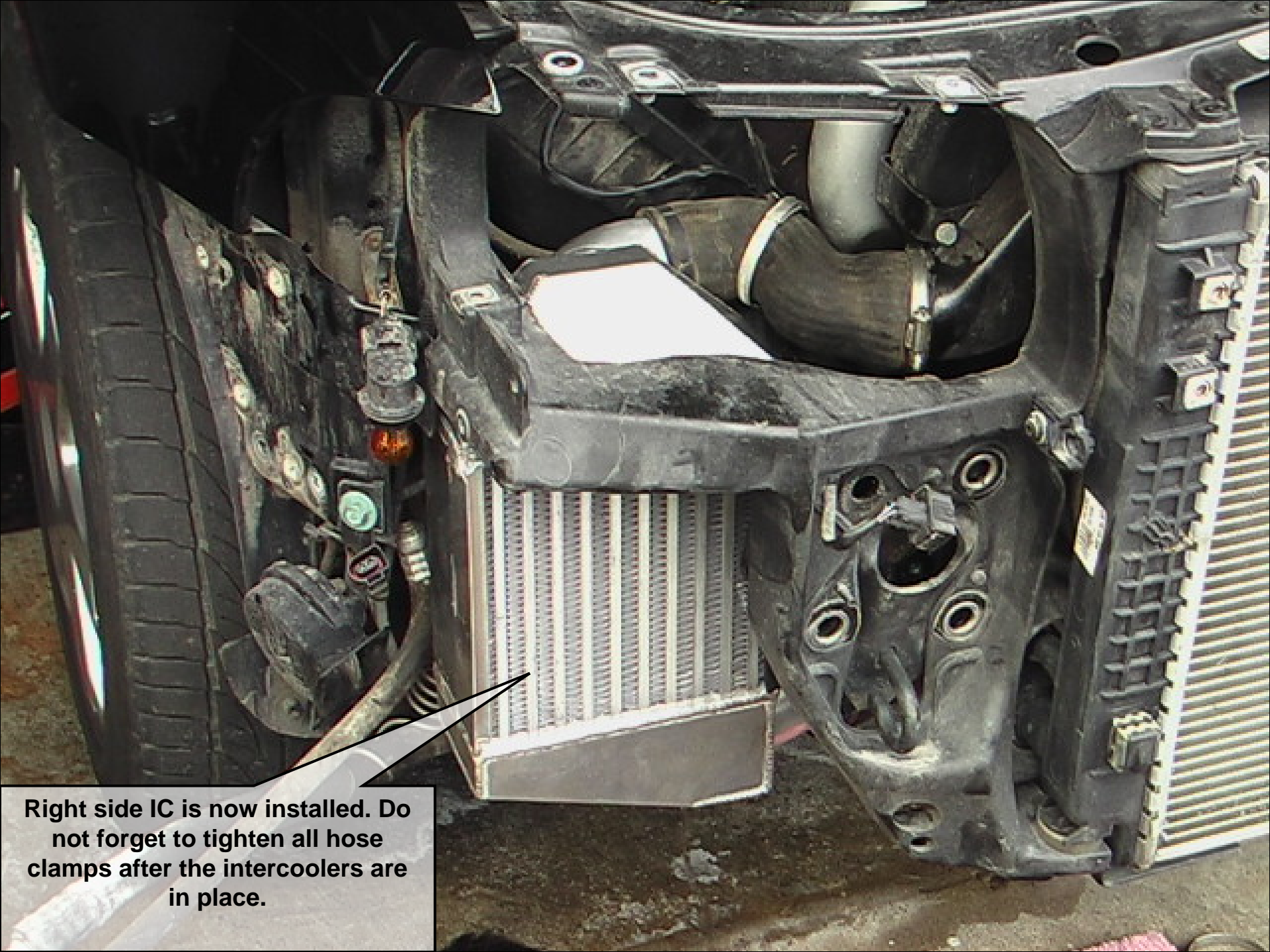
Repeat the removal procedure for the right side intercooler.



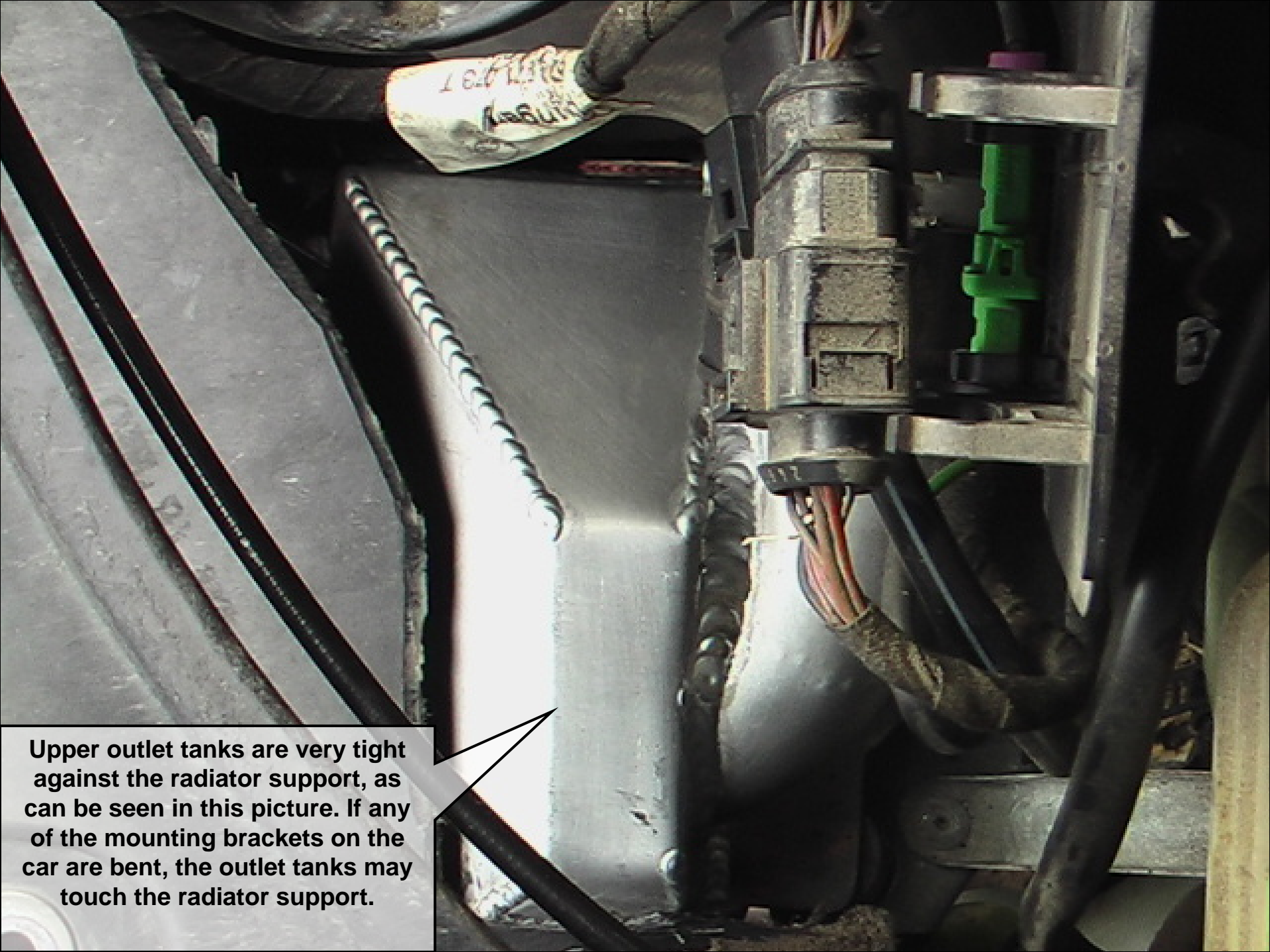
Ensure that the radiator support is being properly supported.



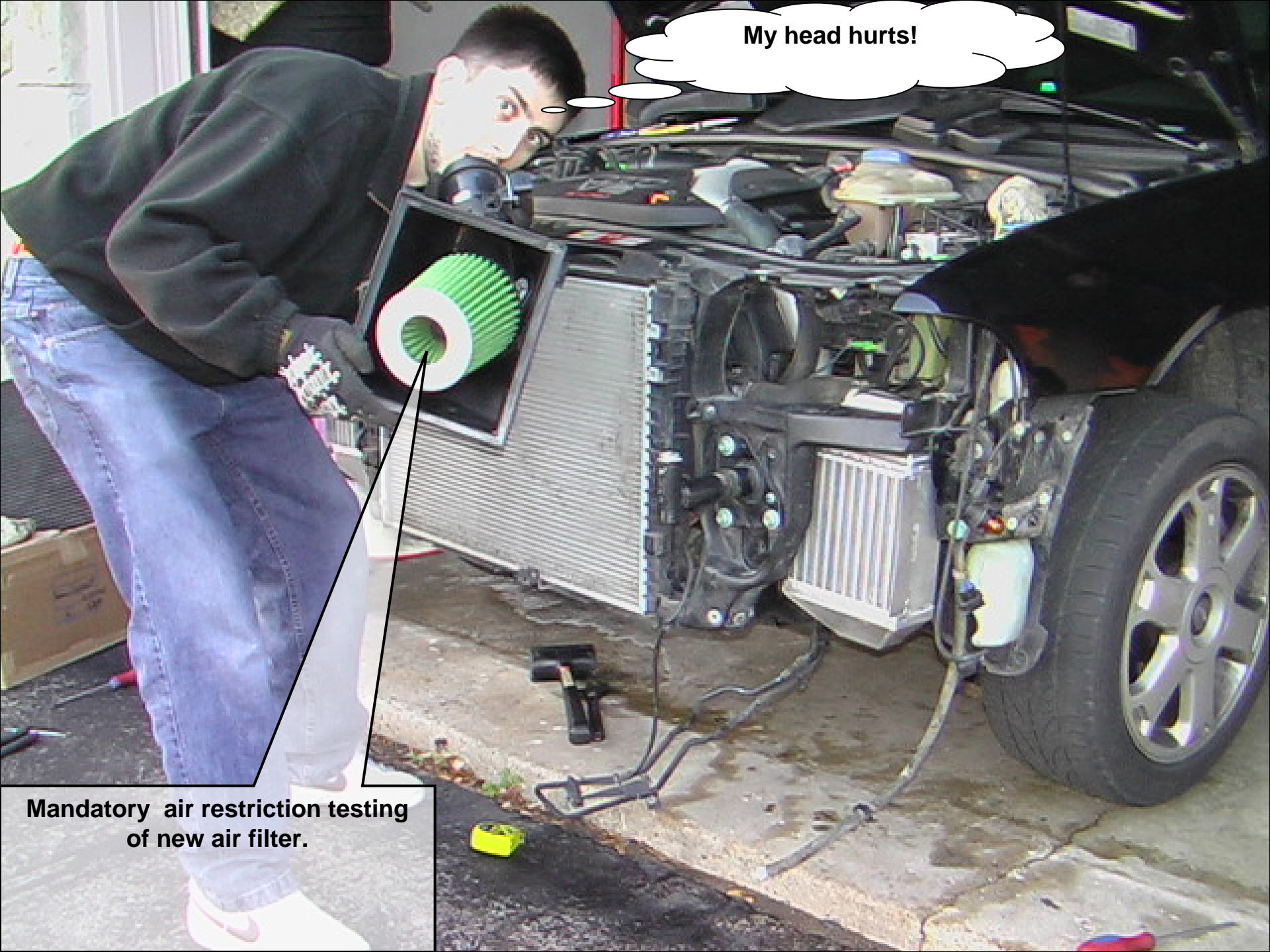
Note that the upper S hose remains on the car, while the intercooler is being removed. The lower hose can also stay on the car.



Right side IC is now installed. Do not forget to tighten all hose clamps after the intercoolers are in place.

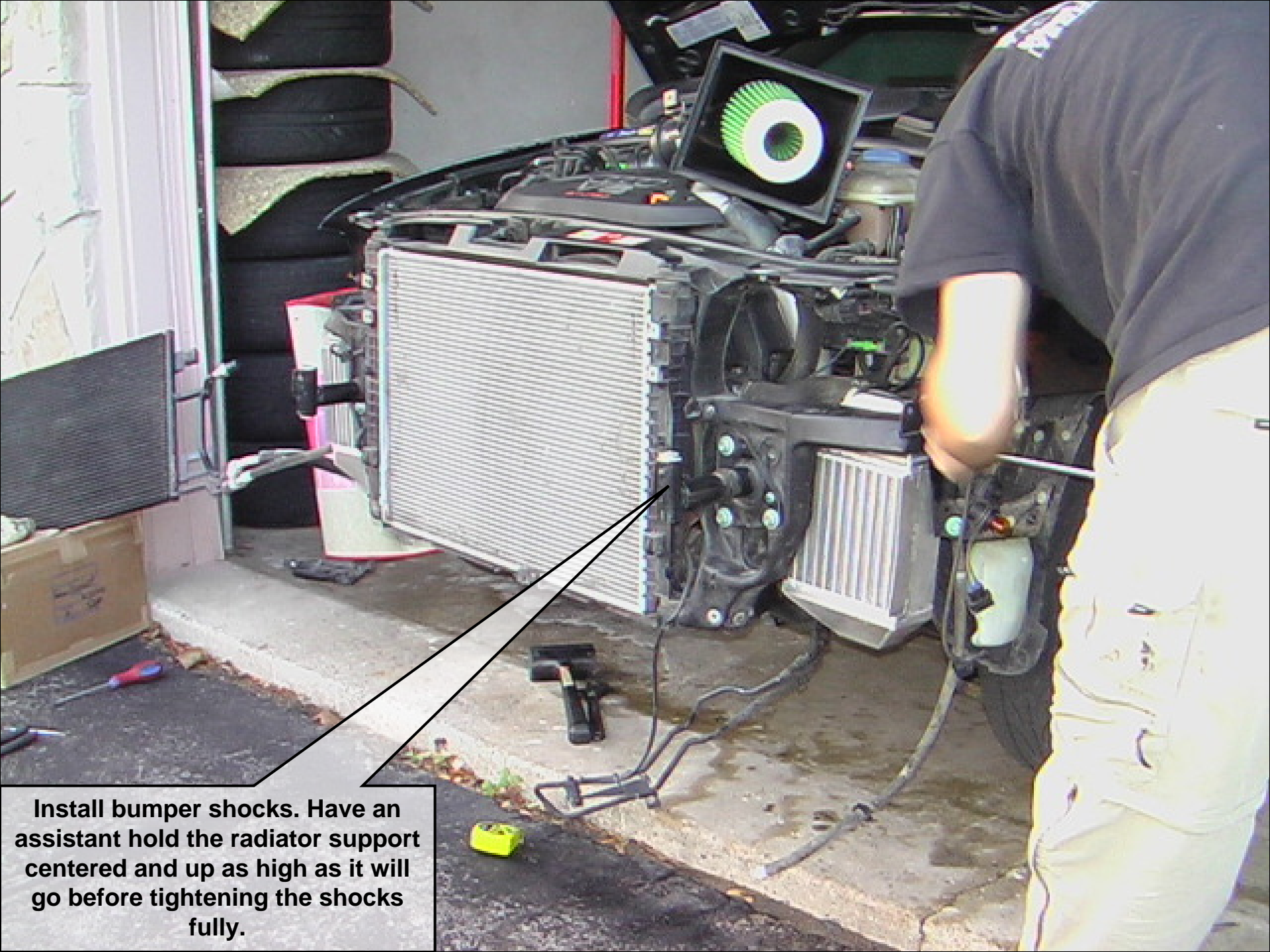


Upper outlet tanks are very tight against the radiator support, as can be seen in this picture. If any of the mounting brackets on the car are bent, the outlet tanks may touch the radiator support.

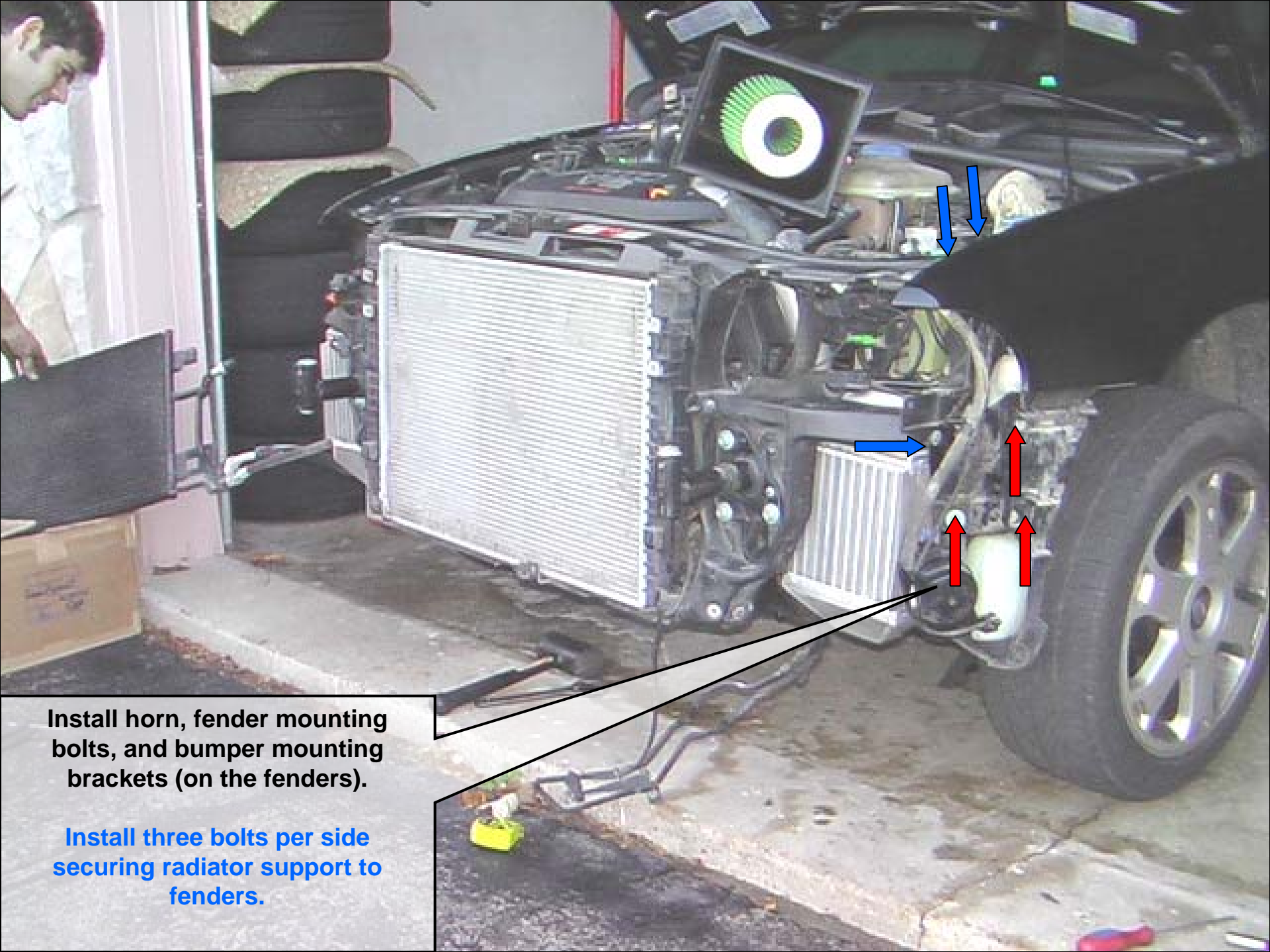


My head hurts!

Mandatory air restriction testing of new air filter.



Install bumper shocks. Have an assistant hold the radiator support centered and up as high as it will go before tightening the shocks fully.



Install horn, fender mounting bolts, and bumper mounting brackets (on the fenders).

Install three bolts per side securing radiator support to fenders.



Install A/C condenser.



Install power steering cooler together with air temperature sensor.

Install radiator flaps.



Install intercooler shrouds with single mounting screw. The IC shroud area at the core can be enlarged with heat and creativity (wood to stretch it)



Install bumper. You must push with substantial force in order to snap the sides of the bumper into place. Remember the Torx screws on either corner.



Right side intercooler



Left side intercooler.



Install bumper grilles, headlights, and lower engine splash shield.

YOU'RE DONE!