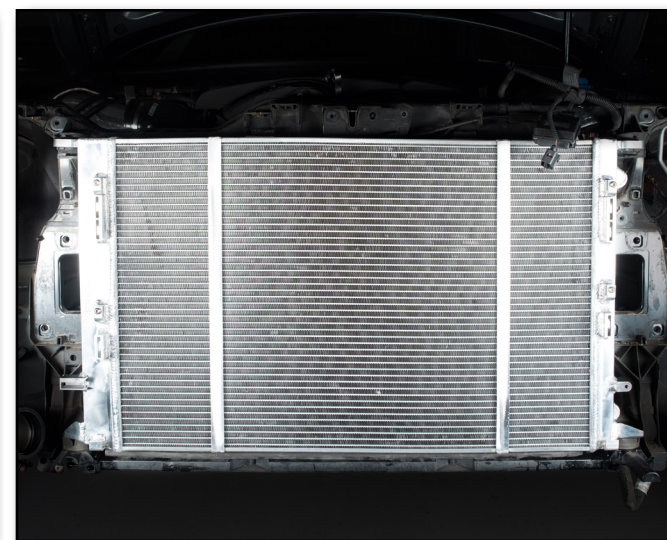
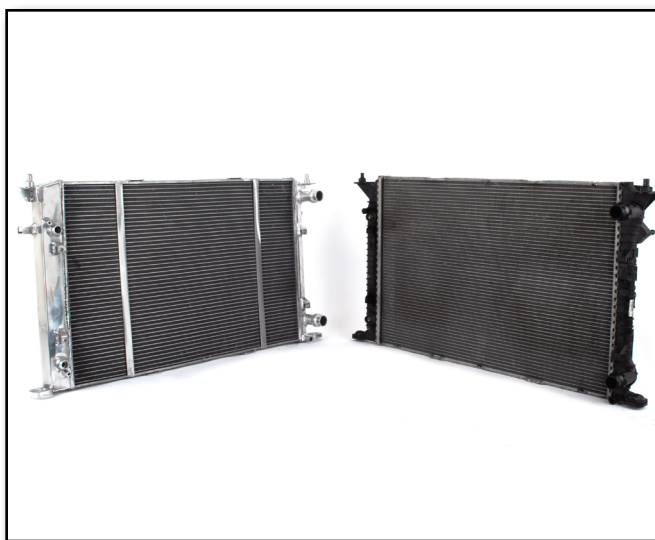
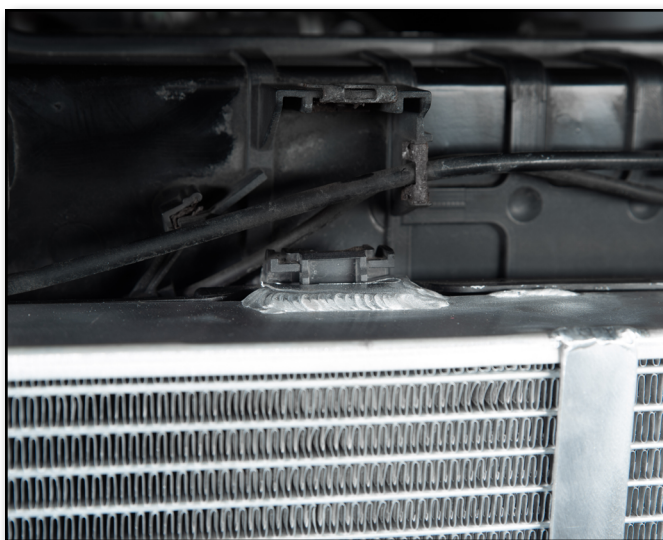
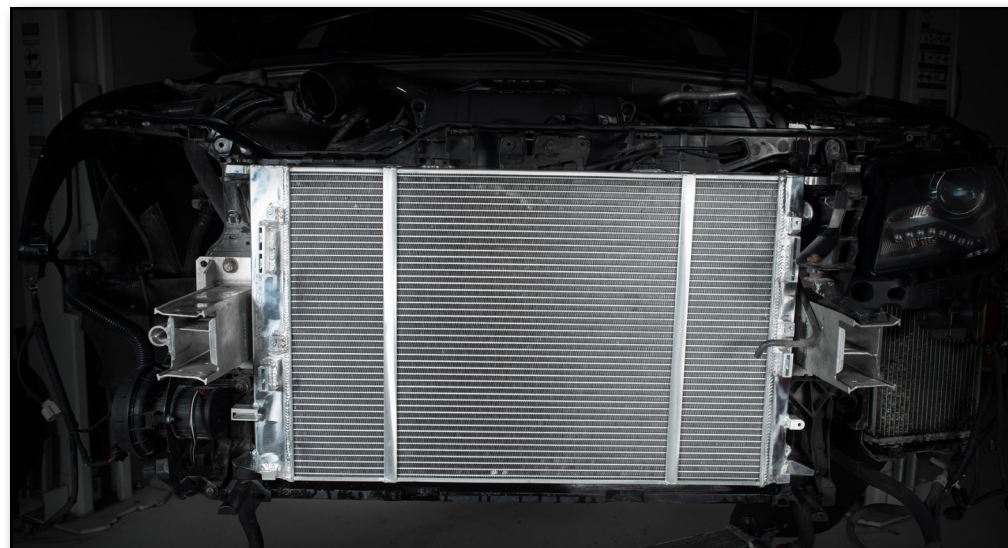




Audi B8 A4/S4 Performance Radiator Installation Instructions - [Click HERE to Shop](#)



Skill Level
2 - Moderate
Some Experience
Recommended



Proper service and repair procedures are vital to the safe, reliable operation of all motor vehicles as well as the personal safety of those performing the repairs. Standard safety procedures and precautions (including use of safety goggles and proper tools and equipment) should be followed at all times to eliminate the possibility of personal injury or improper service which could damage the vehicle or compromise its safety.

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REQUIRED TOOLS

Note: The tools required for each step will be listed by the step number throughout these instructions.

Standard Automotive Tools

- **Protecta-Sockets (for lug nuts)** [ES#2221243](#)
- **3/8" Drive Ratchet** [ES#2765902](#)
- **3/8" Drive Torque Wrench** [ES#2221245](#)
- **3/8" Drive Deep and Shallow Sockets** [ES#2763772](#)
- **3/8" Drive Extensions** [ES#2804822](#)
- **Hydraulic Floor Jack** [ES#2834951](#)
- **Torx Drivers and Sockets** [ES#11417/8](#)
- **1/2" Drive Deep and Shallow Sockets** [ES#2839106](#)
- **1/2" Drive Ratchet**
- **1/2" Drive Extensions**
- **1/2" Drive Torque Wrench** [ES#2221244](#)
- **1/2" Drive Breaker Bar** [ES#2776653](#)
- Bench Mounted Vise
- Crows Foot Wrenches
- **Hook and Pick Tool Set** [ES#2778980](#)

Required For This Install

- **1/4" Drive Ratchet** [ES#2823235](#)
- **1/4" Drive Deep and Shallow Sockets** [ES#2823235](#)
- **1/4" Drive Extensions** [ES#2823235](#)
- **Plier and Cutter Set** [ES#2804496](#)
- **Flat and Phillips Screwdrivers** [ES#2225921](#)
- **Jack Stands** [ES#2763355](#)
- Ball Pein Hammers
- Pry Bar Set [ES#1899378](#)
- Electric/Cordless Drill
- Wire Strippers/Crimpers
- Drill Bits
- Punch and Chisel Set
- Hex Bit (Allen) Wrenches and Sockets [ES#11420](#)
- Thread Repair Tools [ES#1306824](#)
- Open/Boxed End Wrench Set [ES#2765907](#)

Available On Our Website

Specialty Tools

- **Coolant Refill/Air Purge Tool** [ES#2712734](#)

INSTALLATION NOTES

- **RH** refers to the *passenger side* of the vehicle.
- **LH** refers to the *driver side* of the vehicle.
- Always use the proper torque specifications.
- If applicable to this installation, torque specifications will be listed throughout the document and at the end as well.
- Please read all of these instructions and familiarize yourself with the complete process **BEFORE** you begin.

GENERAL PREPARATION AND SAFETY INFORMATION

ECS Tuning cares about your health and safety, please read the following safety information. This information pertains to automotive service in general, and while it may not pertain to every job you do, please remember and share these important safety tips.

- Park your car in a safe, well lit, level area.
- Shut the engine off and remove the key from the ignition switch.
- Make sure any remote start devices are properly disabled.
- **ALWAYS** wear safety glasses.
- Make sure the parking brake is applied until the vehicle is safely lifted and supported.
- Whether lifting a vehicle using an automotive lift or a hydraulic jack, be sure and utilize the factory specified lift points.
- Lifting a vehicle in an incorrect location can cause damage to the suspension/running gear.
- **ALWAYS** support the vehicle with jack stands.
- **ALWAYS** read and follow all safety information and warnings for the equipment you are using.



NEVER get underneath a vehicle that is supported only by a jack, and **ALWAYS** make sure that the vehicle is securely supported on jack stands.

REMOVING THE ORIGINAL RADIATOR

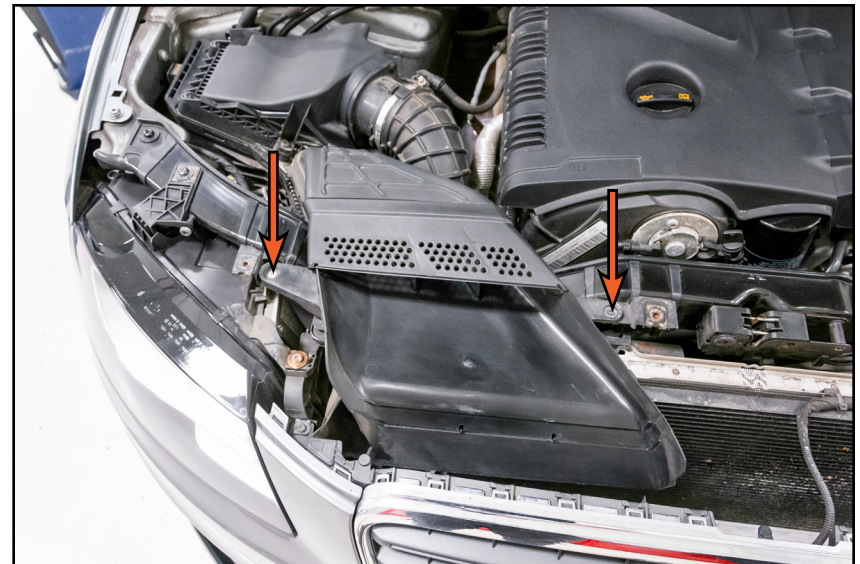
Step 1: T30 Torx Socket & Ratchet

Disconnect the battery, then remove the four screws (arrows) and remove the radiator shroud.



Step 2: T25 Torx Socket & Ratchet

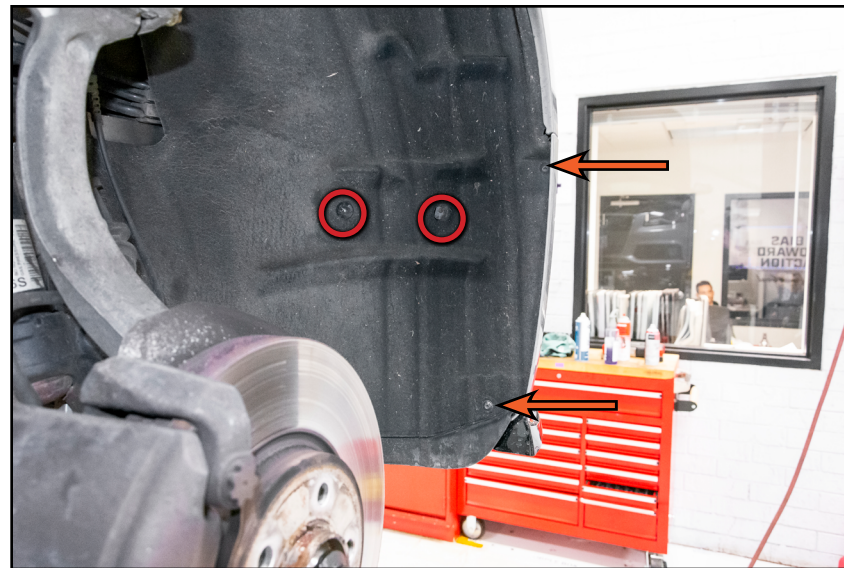
Remove the two screws (arrows), then remove the air scoop from the vehicle.



REMOVING THE ORIGINAL RADIATOR

Step 3: T25 Torx Socket & Ratchet

Safely lift and support the vehicle, then remove the front wheels. Remove the two clips (circled in **RED**), then remove the two screws (arrows) that secure each fender liner to the bumper.



Step 4:

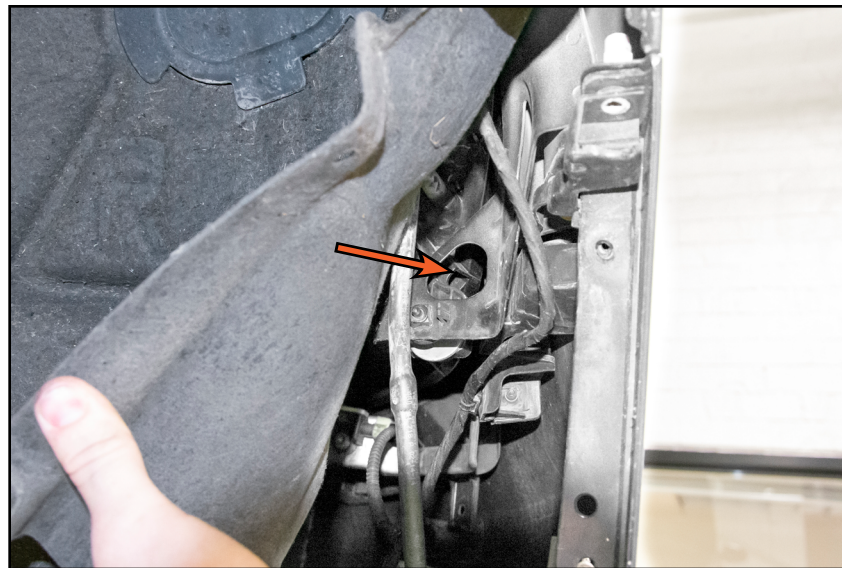
Disconnect the harness (highlighted in **RED**) from the fog lights.



REMOVING THE ORIGINAL RADIATOR

Step 5: 10mm Socket & Ratchet

Locate and remove the bolt (arrow) that secures the bumper on either side.



Step 6: T30 Torx Socket & Ratchet

Remove the lower insulation panel, then remove the four screws (circled in **RED**) that secure the bumper to the underside of the core support.



REMOVING THE ORIGINAL RADIATOR

Step 7:

Carefully pull each corner of the bumper away from the vehicle slightly as shown.



Step 8:

Disconnect the homelink® receiver (highlighted in **RED**) located behind the emblem.



REMOVING THE ORIGINAL RADIATOR

Step 9: T25 Torx Socket & Ratchet

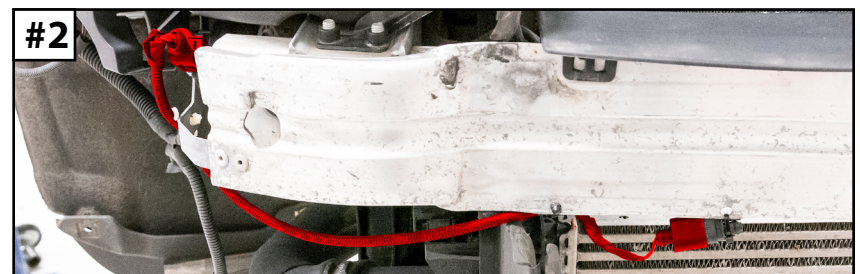
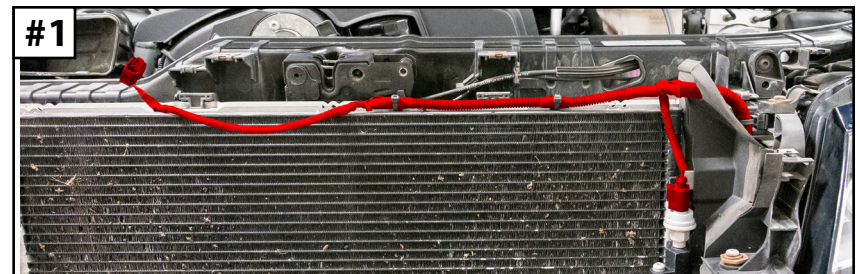
Remove the two screws (arrows), then remove the bumper and set it aside.



Step 10:

Disconnect and free up the wiring harness (highlighted **RED** in **Photo #1**) that connects the A/C and LH horn and runs across the top of the radiator.

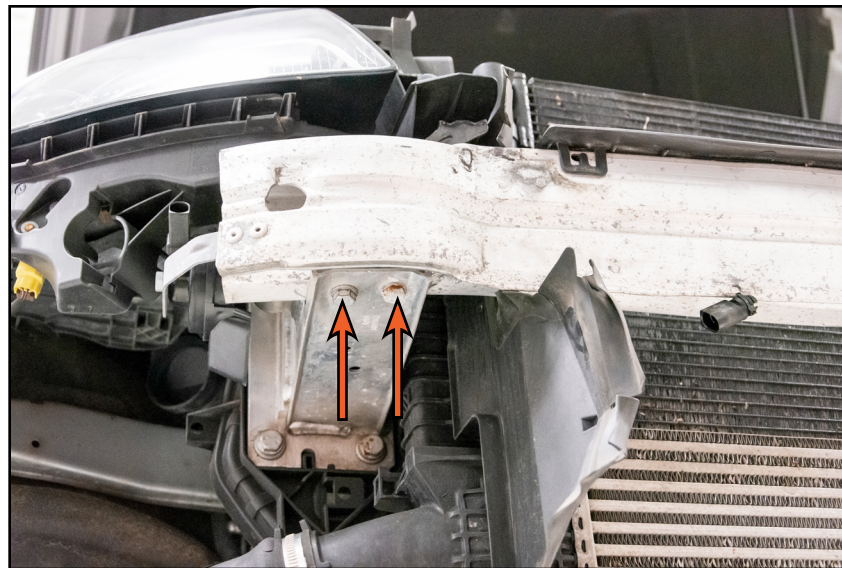
Disconnect and free up the wiring harness (highlighted **RED** in **Photo #2**) that connects the ambient air temperature sensor and RH horn.



REMOVING THE ORIGINAL RADIATOR

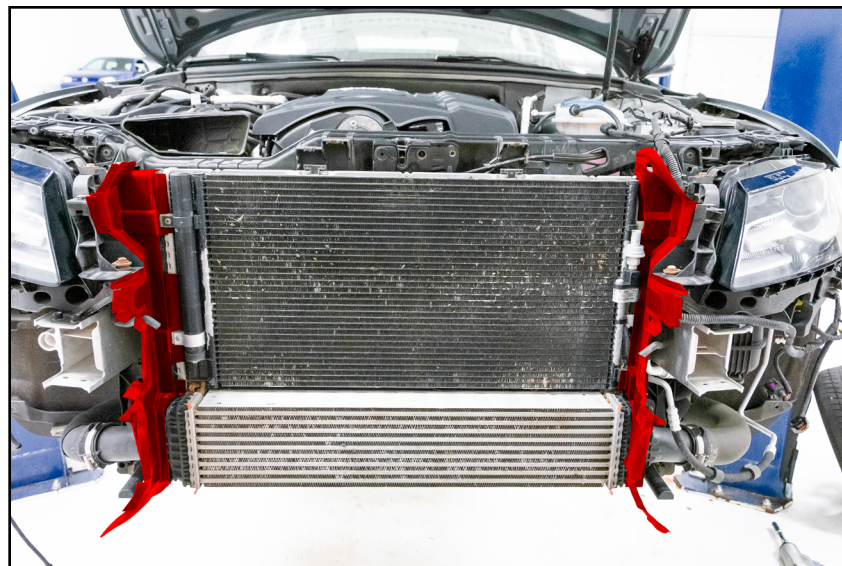
Step 11: 13mm Socket & Ratchet

Remove the two bolts (arrows) that secure the crash beam to the vehicle on either side, then remove the crash beam.



Step 12:

Remove the two plastic air shrouds (highlighted in **RED**) from the front of the radiator.



REMOVING THE ORIGINAL RADIATOR

Step 13: 7mm Socket & Ratchet



2.0T vehicles only: Loosen the clamps (arrows), then disconnect the hoses from the intercooler.



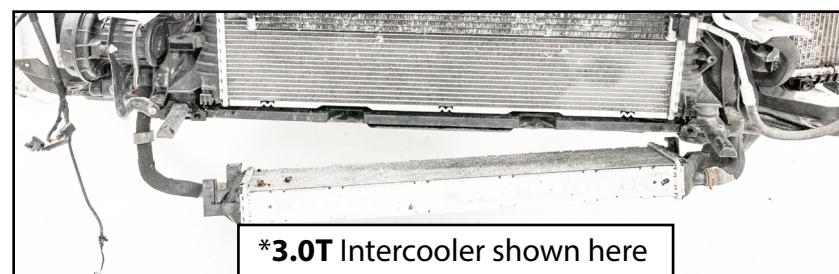
Step 14: T30 Torx Socket & Ratchet

Remove the screw (circled in **RED**), then depress the locking tab (arrow) to release the intercooler from the core support.



2.0T vehicles: remove the intercooler and set it aside.

3.0T vehicles: carefully hang the intercooler below the core support as shown.



REMOVING THE ORIGINAL RADIATOR

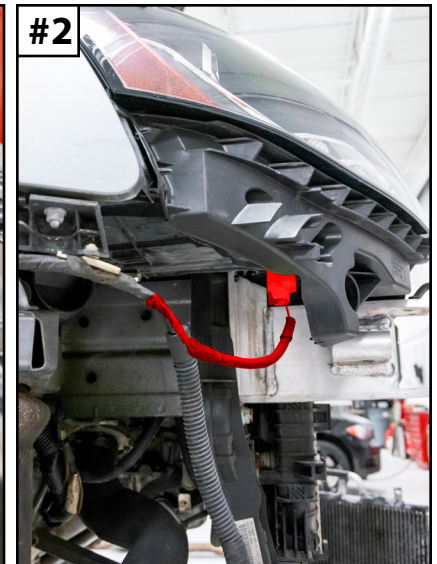
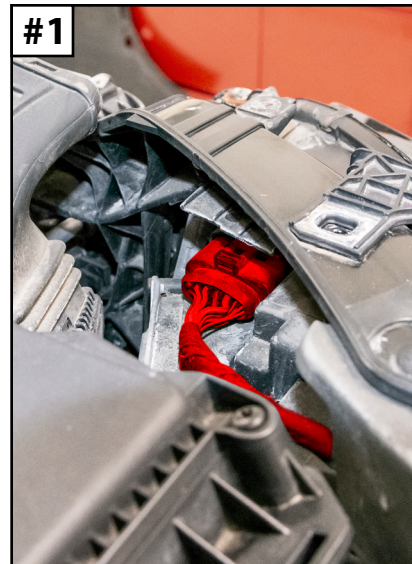
Step 15:

Depress the release tabs (arrows) and lift up the A/C condenser from the radiator. Carefully pivot the condenser out of the way, being careful not to bend or stress the A/C lines.



Step 16:

Disconnect the headlight connector (highlighted in **RED** in **Photo #1**) and the impact sensor connector (highlighted in **RED** in **Photo #2**) from the RH headlight assembly.



REMOVING THE ORIGINAL RADIATOR

Step 17: T30 Torx Socket & Ratchet

Remove the headlight bracket bolt (arrow in inset photo) and the two screws (arrows), then remove the headlight assembly.



Step 18:

Place a drip tray pan under the vehicle, then open the drain valve (circled in **RED**) to drain the coolant.



REMOVING THE ORIGINAL RADIATOR

Step 19: Angled Pick Tool

Pull the spring clip (arrow) upward, then slide the lower radiator hose off of the lower radiator outlet.



Step 20:

Disconnect the fan connector (highlighted in **RED**).



REMOVING THE ORIGINAL RADIATOR

Step 21: 10mm Socket & Ratchet

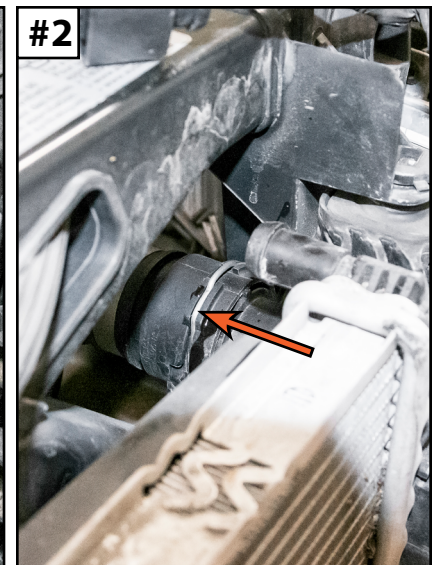
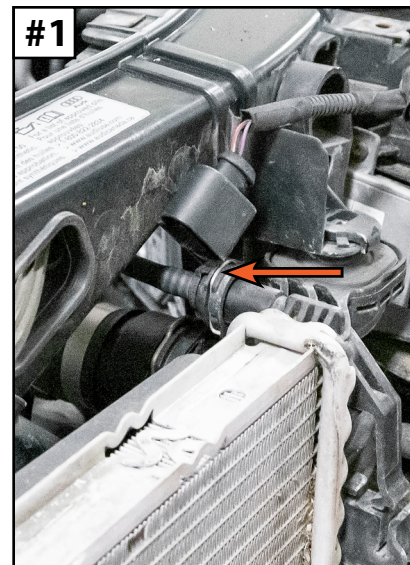


If your vehicle is equipped with an automatic/S-Tronic transmission: place a drip tray under the vehicle, then remove the bolt (arrow in **Photo #1**), then pull the lower transmission fluid line free from the port. Remove the bolt (arrow in **Photo #2**), then disconnect the upper transmission fluid line free from the port.



Step 22: Angled Pick Tool

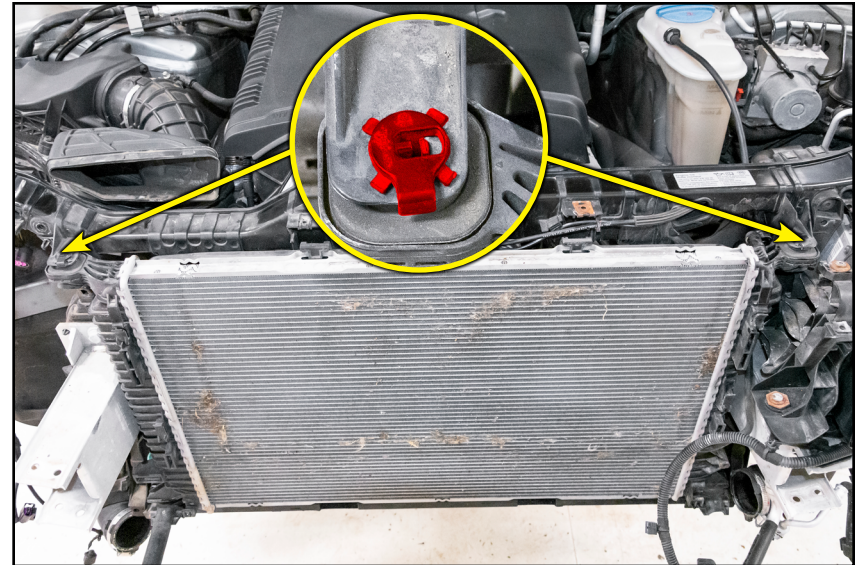
Pull the spring clips (arrows) upward from the coolant overflow (**Photo #1**) and the upper radiator hose (**Photo #2**), then remove them from the radiator.



REMOVING THE ORIGINAL RADIATOR

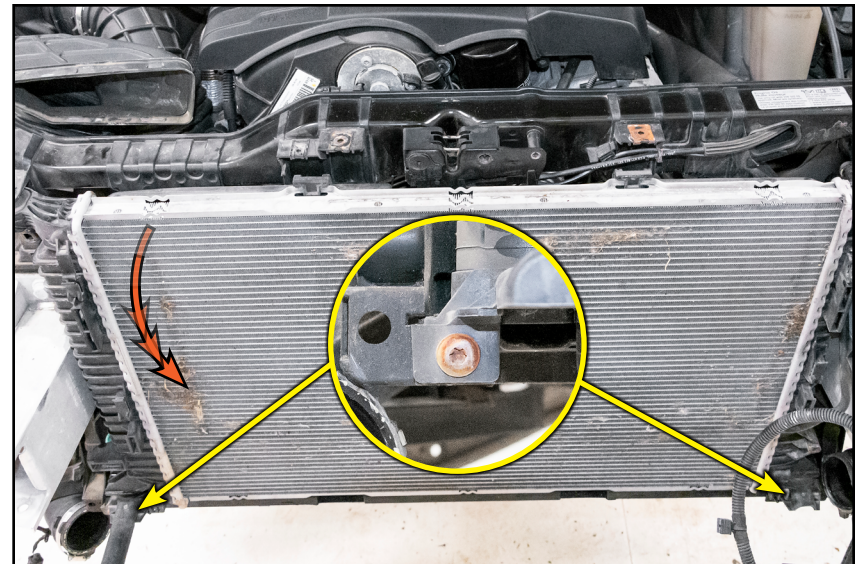
Step 23: Angled Pick

Depress the retaining tab and pull up to remove the two upper radiator mounting posts (highlighted in **RED** in inset photo).



Step 24: T30 Torx Socket & Ratchet

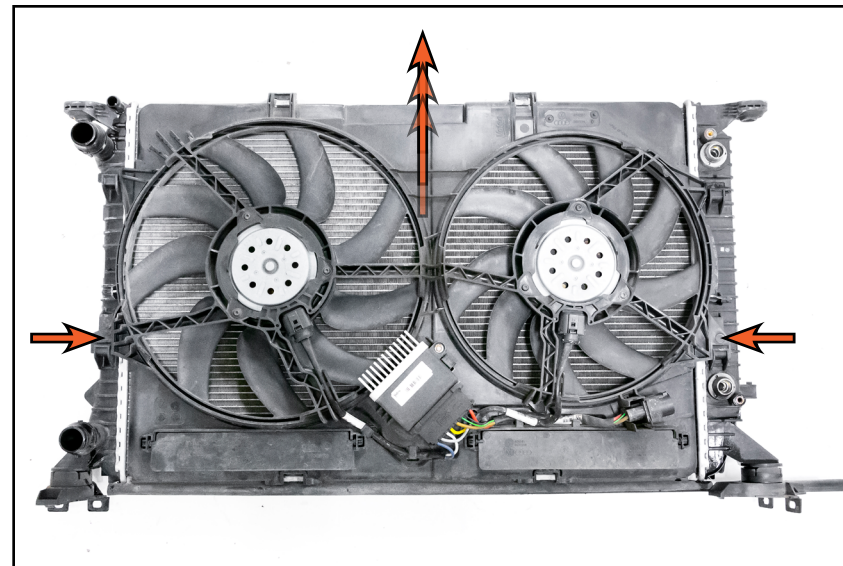
Remove the two screws (inset photo) that secure the lower radiator mounts to the core support and carefully pivot the radiator out of the core support and remove it from the vehicle.



REMOVING THE ORIGINAL RADIATOR

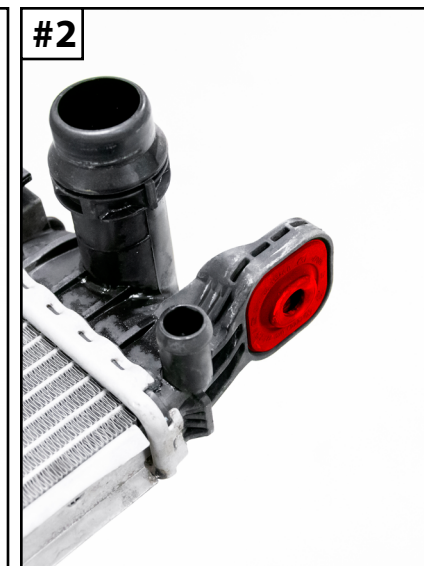
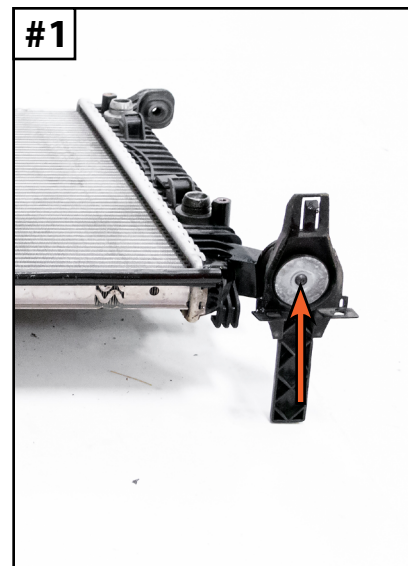
Step 25:

Depress the two retaining tabs (arrows) and slide the fan shroud assembly upward to remove it from the radiator.



Step 26: T20 Torx Socket & Ratchet

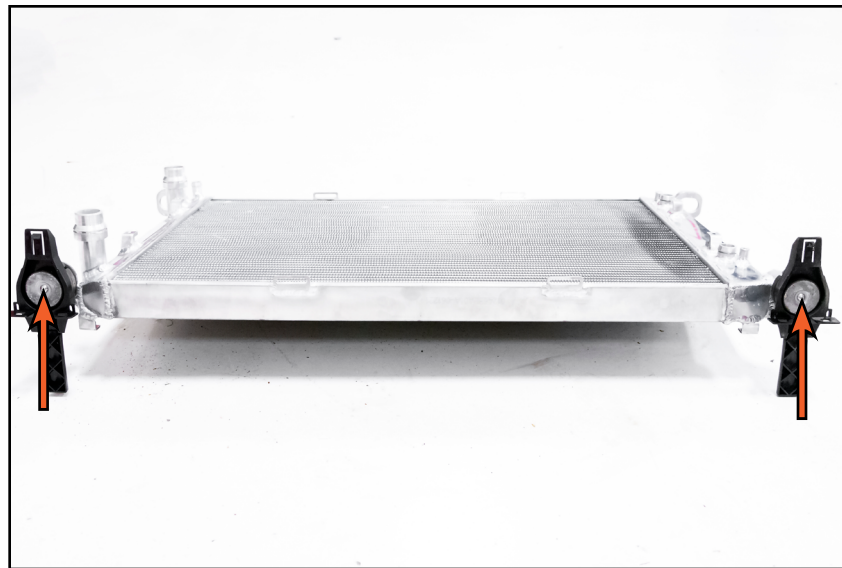
Remove the screw (arrow in **Photo #1**) and remove the lower mounting bracket from each side of the radiator, then remove the upper mounting grommets (highlighted in **RED** in **Photo #2**) from the upper radiator tabs.



INSTALLING THE NEW RADIATOR

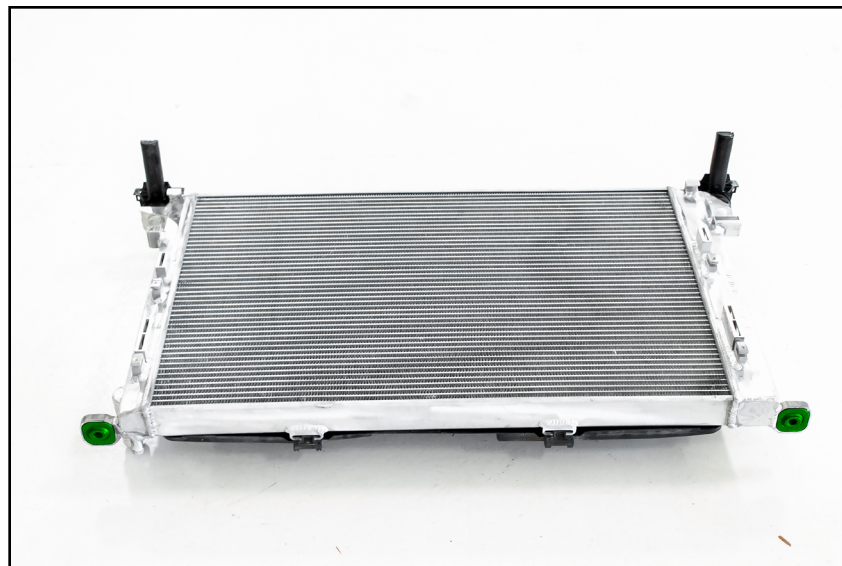
Step 1: 3mm Hex (Allen) Socket & Ratchet

Transfer the lower mounting brackets to the new radiator, then install the provided M5 screws (arrows) and tighten them until snug.



Step 2:

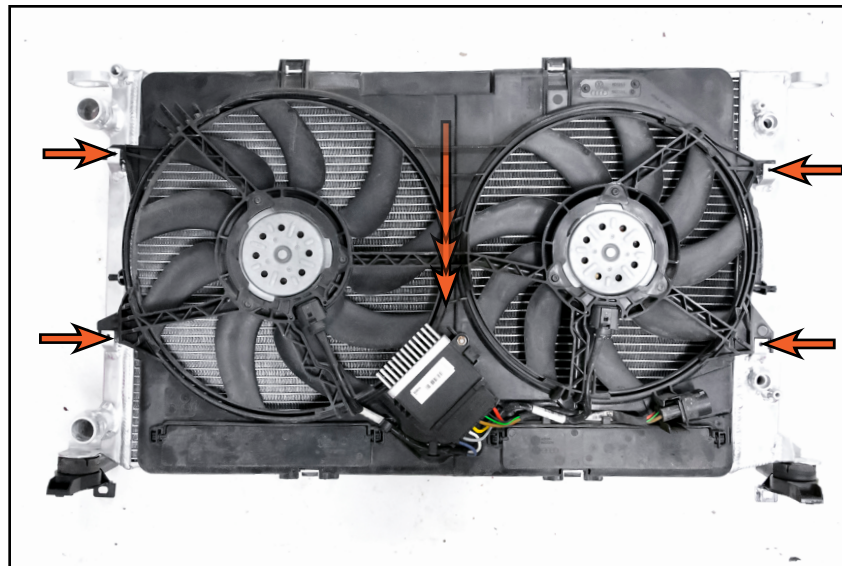
Transfer the upper mounting grommets (highlighted in **GREEN**) to the upper radiator mounts as shown.



INSTALLING THE NEW RADIATOR

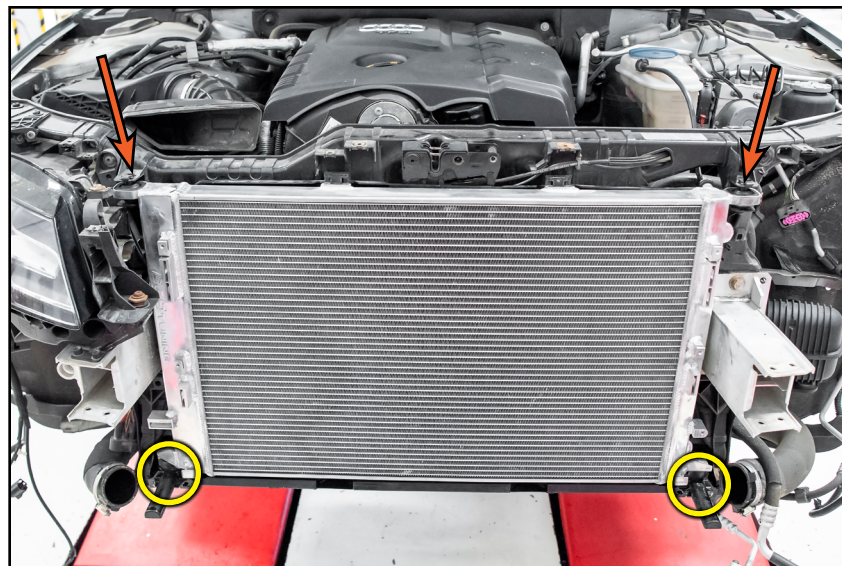
Step 3: 4mm Hex (Allen) Socket & Ratchet

Slide the OE fan shroud onto the new radiator and install the provided M6 screws (arrows) and tighten them until snug.



Step 4: T30 Torx Socket & Ratchet

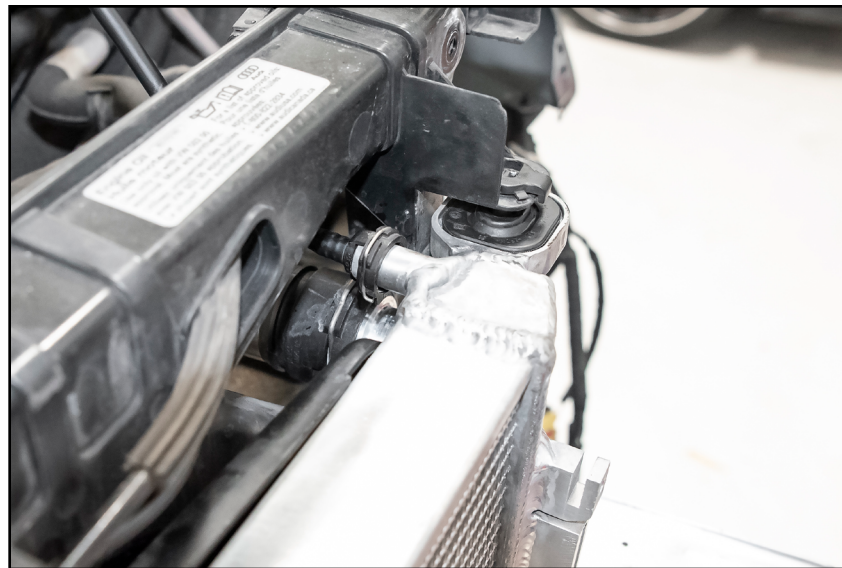
Carefully guide the new radiator assembly into the core support. Install the two screws (circled in **YELLOW**) for the lower radiator mounts and torque them to 9 Nm (7 Ft-lbs). Install the upper radiator mounting posts (arrows).



INSTALLING THE NEW RADIATOR

Step 5:

Reinstall the upper radiator hose and coolant overflow line, ensuring the spring clips snap into place.



Step 6:

Install the lower radiator hose, ensuring the spring clip snaps into place.

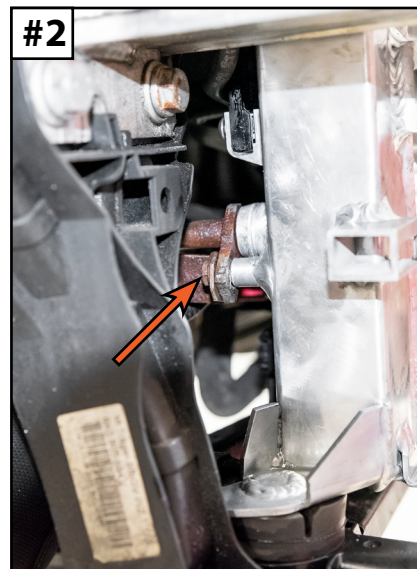


INSTALLING THE NEW RADIATOR

Step 7: 10mm Socket & Torque Wrench

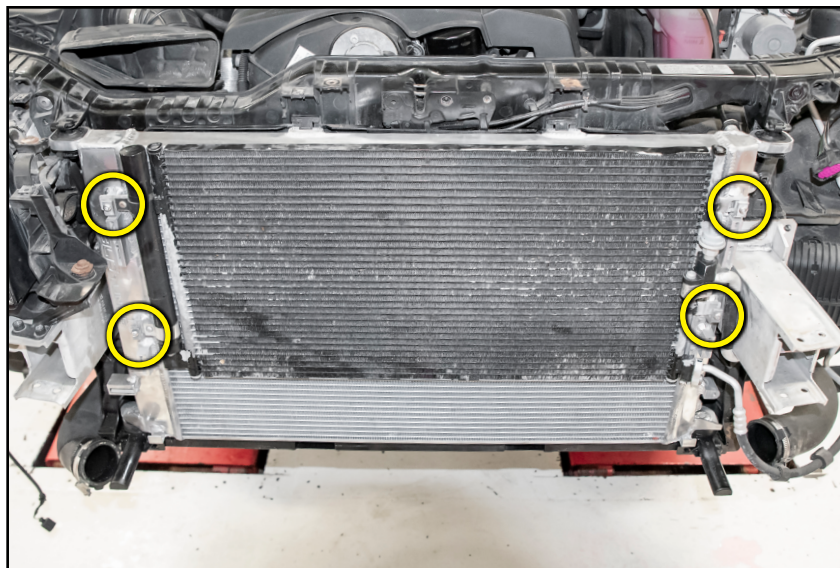


If your vehicle is equipped with an automatic/S-Tronic transmission: Install the upper transmission fluid line (**Photo #1**) and lower transmission fluid line (**Photo #2**) into their ports, and torque the screws (arrows) to 5 Nm (4 Ft-lbs).



Step 8: 4mm Hex (Allen) Socket & Ratchet

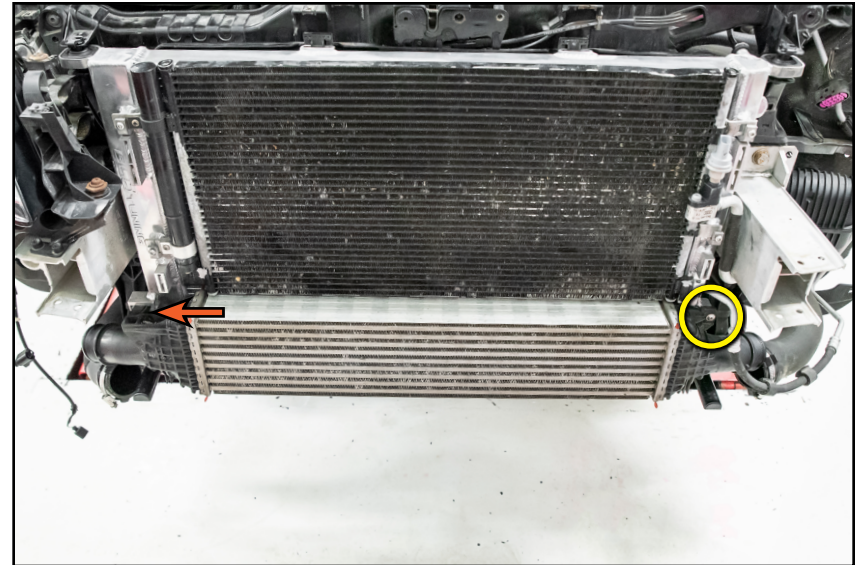
Carefully slide the A/C condenser into the tabs on the radiator, then install the provided M6 screws (circled in **YELLOW**) and tighten them until snug.



INSTALLING THE NEW RADIATOR

Step 9: T30 Torx & Torque Wrench

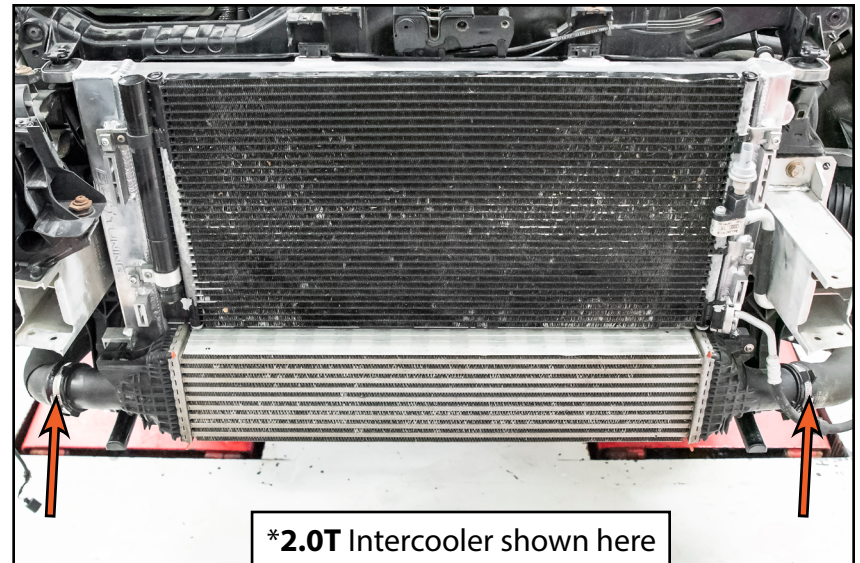
Slide the intercooler into place, then pivot it rearward until the locking tab (arrow) clicks into place, then install and torque the screw (circled in **YELLOW**) to 7 Nm (5 Ft-lbs).



Step 10: 7mm Socket -OR- Flat Head Screwdriver



2.0T vehicles only: Install the hoses onto the intercooler and tighten the clamps (arrows) until snug.



INSTALLING THE NEW RADIATOR

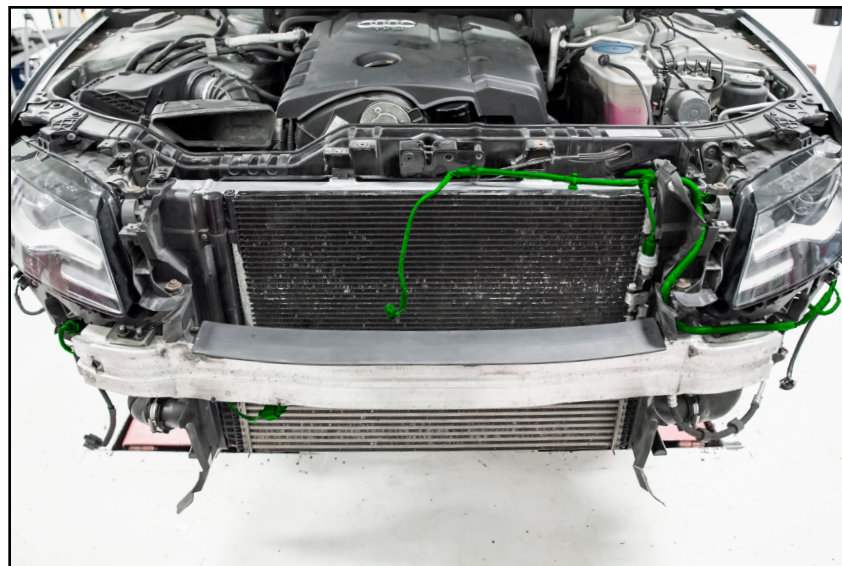
Step 11: 13mm Socket & Torque wrench

Reinstall the RH headlight and headlight bracket. Reinstall the crash beam and torque the bolts to 23 Nm (17 Ft-lbs).



Step 12:

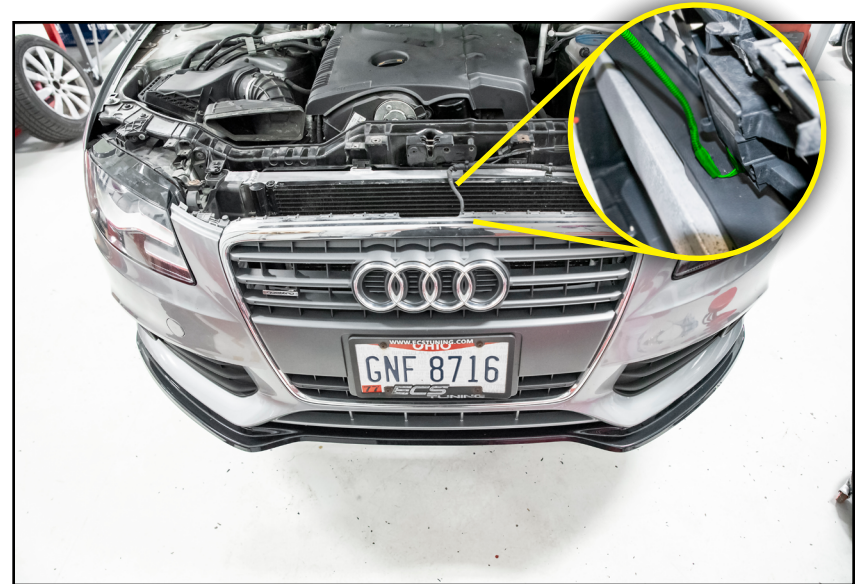
Reroute the harnesses (highlighted in **GREEN**), then reconnect the A/C, horns, and ambient air temperature sensor connectors.



INSTALLING THE NEW RADIATOR

Step 13:

Reconnect the homelink connector (highlighted **GREEN** in the inset photo), and reinstall the front bumper.



Step 14: T25 Torx Socket & Ratchet

Reinstall the air scoop, then reinstall the radiator shroud and tighten the screws (arrows) until snug.

- ☐ Reinstall the lower insulation panel
- ☐ Reinstall the fender liners and wheels. Torque the wheel bolts to 120 Nm (89 Ft-lbs)



INSTALLING THE NEW RADIATOR

Step 15: Coolant Refill/Air Purge Tool

Fill the coolant system with fresh coolant and bleed it to remove any air from the system.



Step 16:

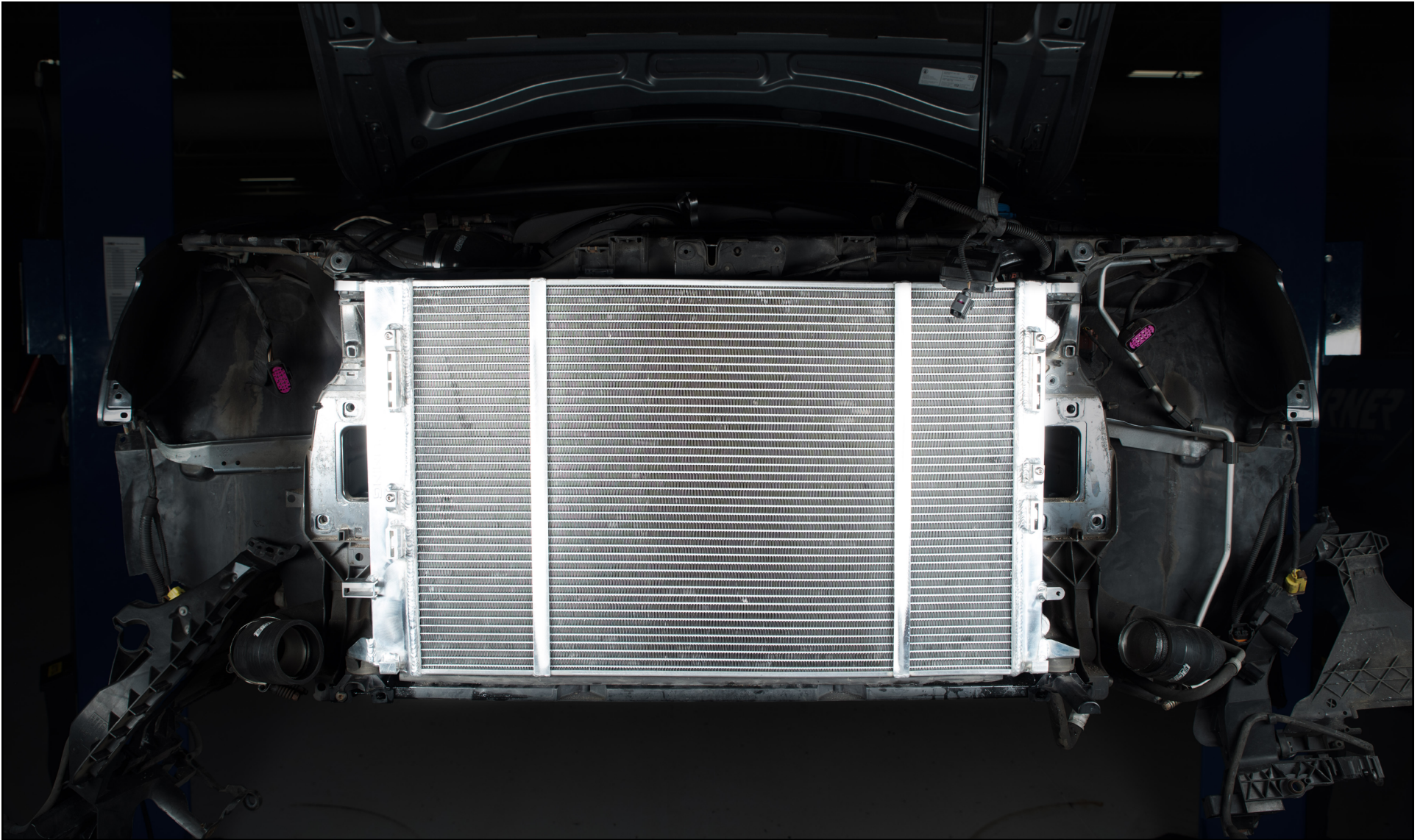


If your vehicle is equipped with an automatic/S-Tronic transmission: Check the transmission fluid to ensure it is at the proper level and top it off if needed.



Congratulations, your installation is complete!

Your Radiator installation is complete!



These instructions are provided as a courtesy by ECS Tuning

Proper service and repair procedures are vital to the safe, reliable operation of all motor vehicles as well as the personal safety of those performing the repairs. Standard safety procedures and precautions (including use of safety goggles and proper tools and equipment) should be followed at all times to eliminate the possibility of personal injury or improper service which could damage the vehicle or compromise its safety.

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