

Integrated Engineering Audi A4/A5 (B8 2.0T) FDS Intercooler Install Part Number IETPCG1

Thank you for purchasing another high quality Integrated Engineering product! This instruction guide is used for installation of Integrated Engineering's FDS Intercooler Kit for Audi B8 2.0T TSI applications. This kit needs to be installed by a professional or an experienced technician. Integrated Engineering is not responsible for any damage caused by incorrect installation.

FDS Intercooler Contents:

- (1) FDS Intercooler
- (1) Intercooler inlet hose
- (1) Intercooler outlet hose
- (4) Inlet/outlet hose clamps
- (2) Upper intercooler mount brackets
- (4) Upper bracket nuts
- (4) Upper bracket studs
- (1) Billet aluminum mount block
- (1) Aluminum mount spacer
- (1) Water methanol port plug
- (2) Washers
- (5) Allen bolts
- (1) Mount screw

Required Tools:

- Phillips screwdriver
- Flat head screwdriver
- Torx bit or driver set
- Ratchet wrench & extensions
- Socket set in mm
- Crescent wrench set in mm
- Allen wrench or key set in mm and SAE

Before you begin, open your IE Intercooler Kit, inspect all components, and verify their quantities.

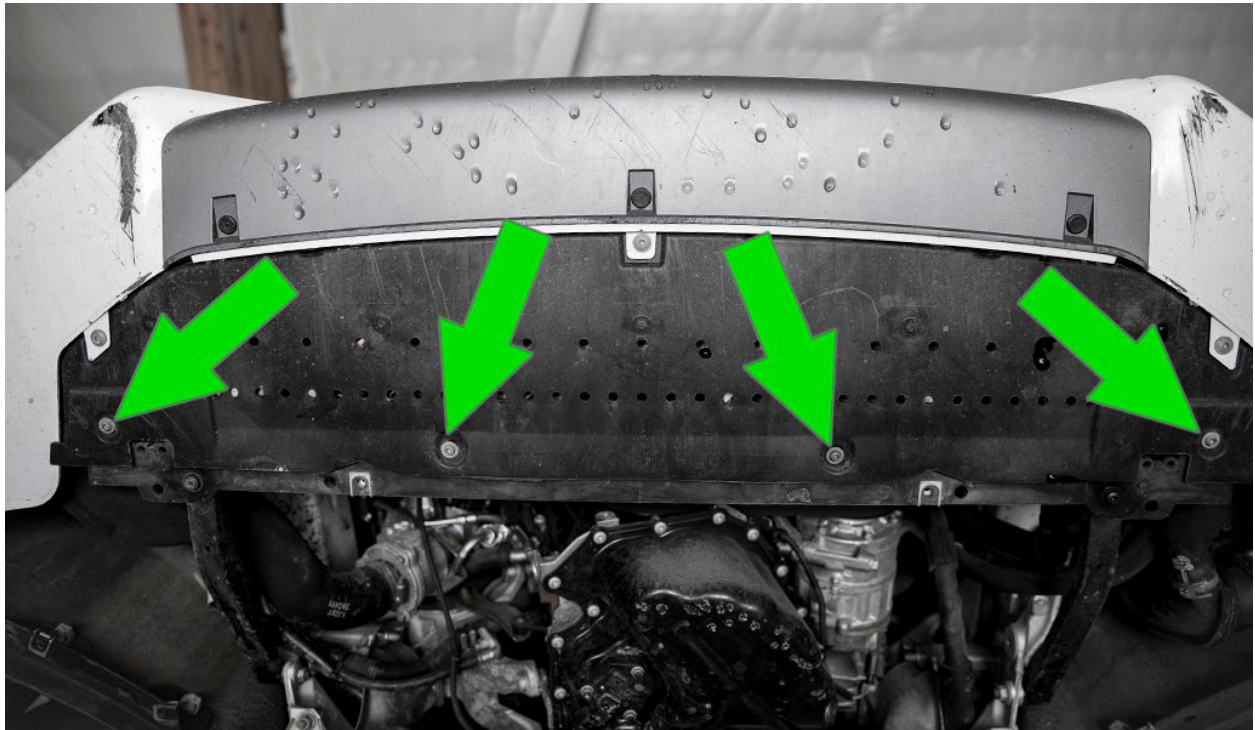
1. Park your car on level surface and apply the parking brake to jack or rack your car on an auto lift. It is also recommended to allow the car to cool before beginning this install procedure.



2. Start the installation procedure by removing the 11 phillips head screws securing the belly pan to the vehicle. Remove belly pan and set aside.



3. Using a T30 torx driver, remove the four bolts securing the lower bumper cover. Set lower bumper cover off to the side.



4. Remove both front wheels to gain access to the fender liners.



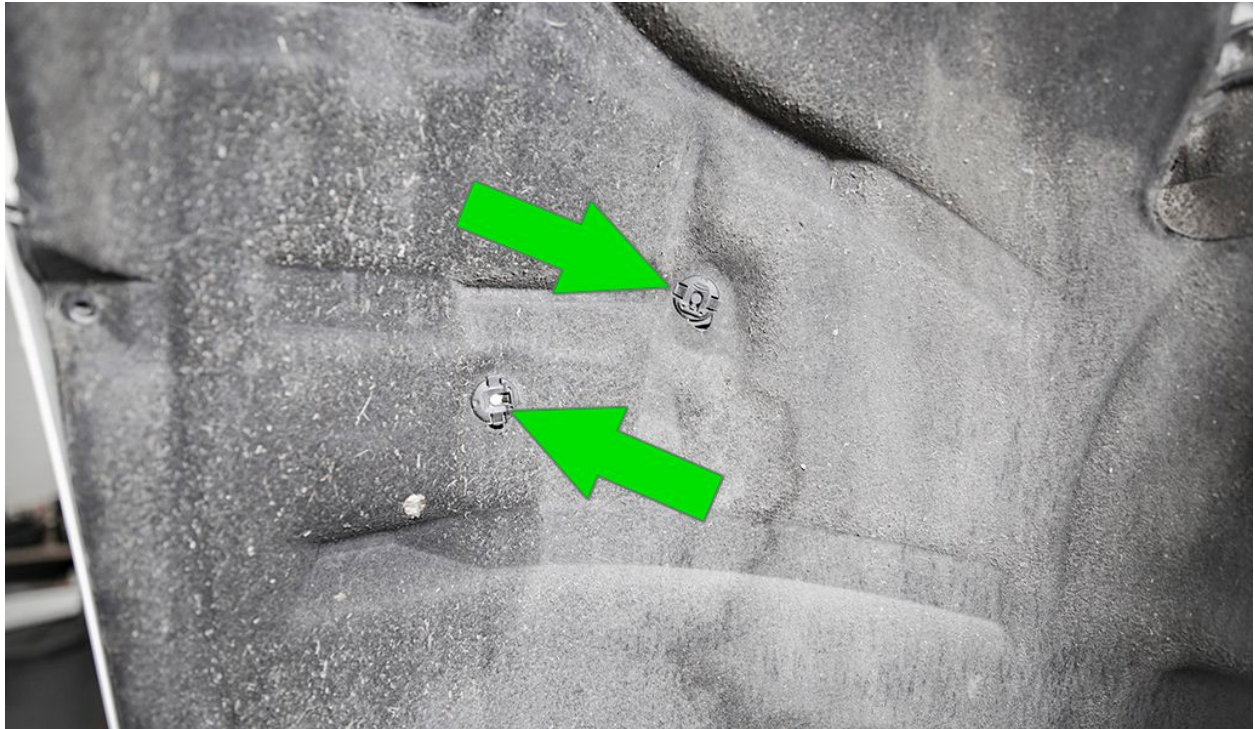
5. Remove all three bolts from the lower fender liner using a T25 torx driver. Repeat on both sides.



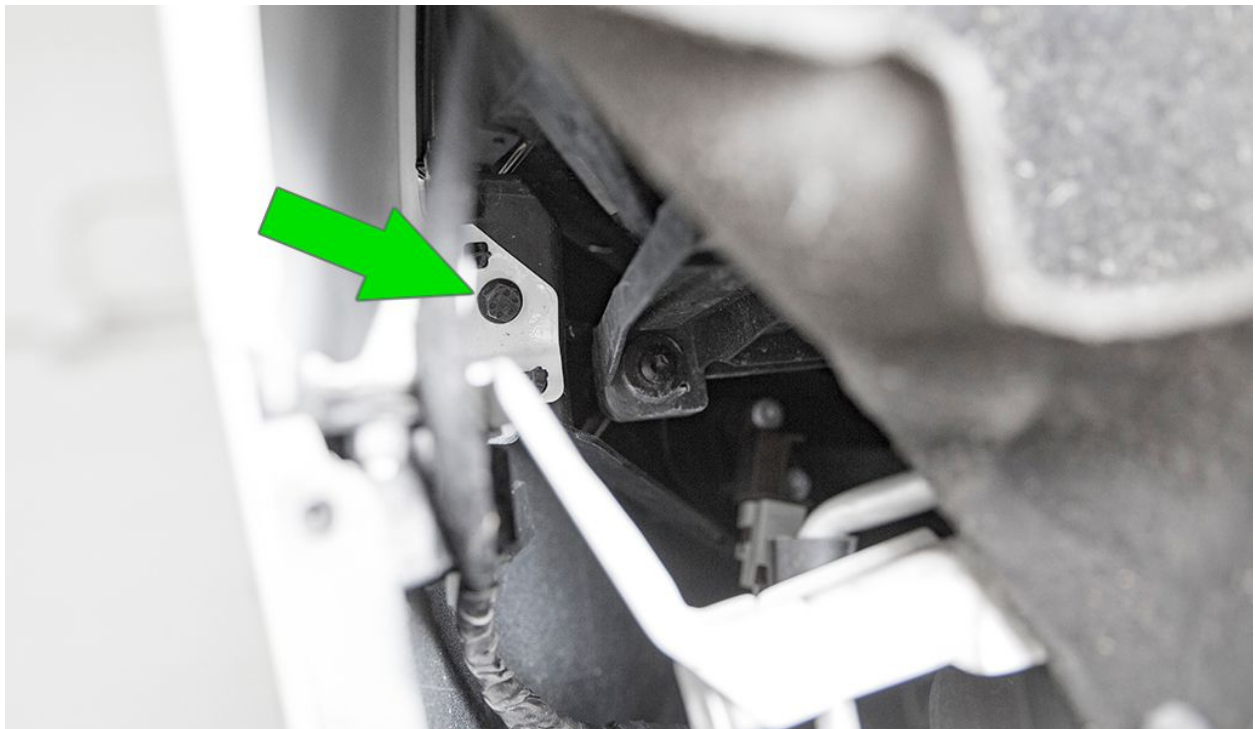
6. Remove the upper fender liner bolt with a T25 torx driver. Repeat on both sides.



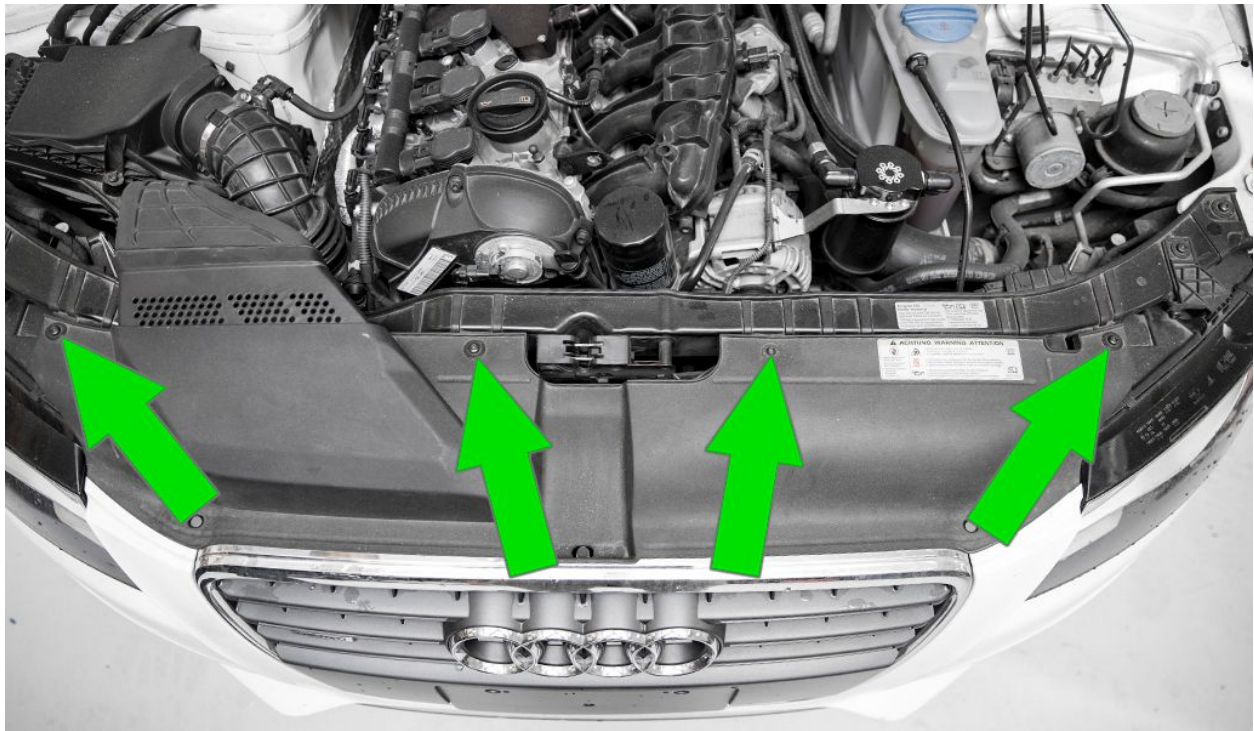
7. Remove both plastic fender liner push retainers. Repeat on both sides.



8. Carefully pull back the fender liner to gain access to the inside of the bumper and fender. Remove the fender to bumper bolt using a 10mm socket. Repeat on both sides.



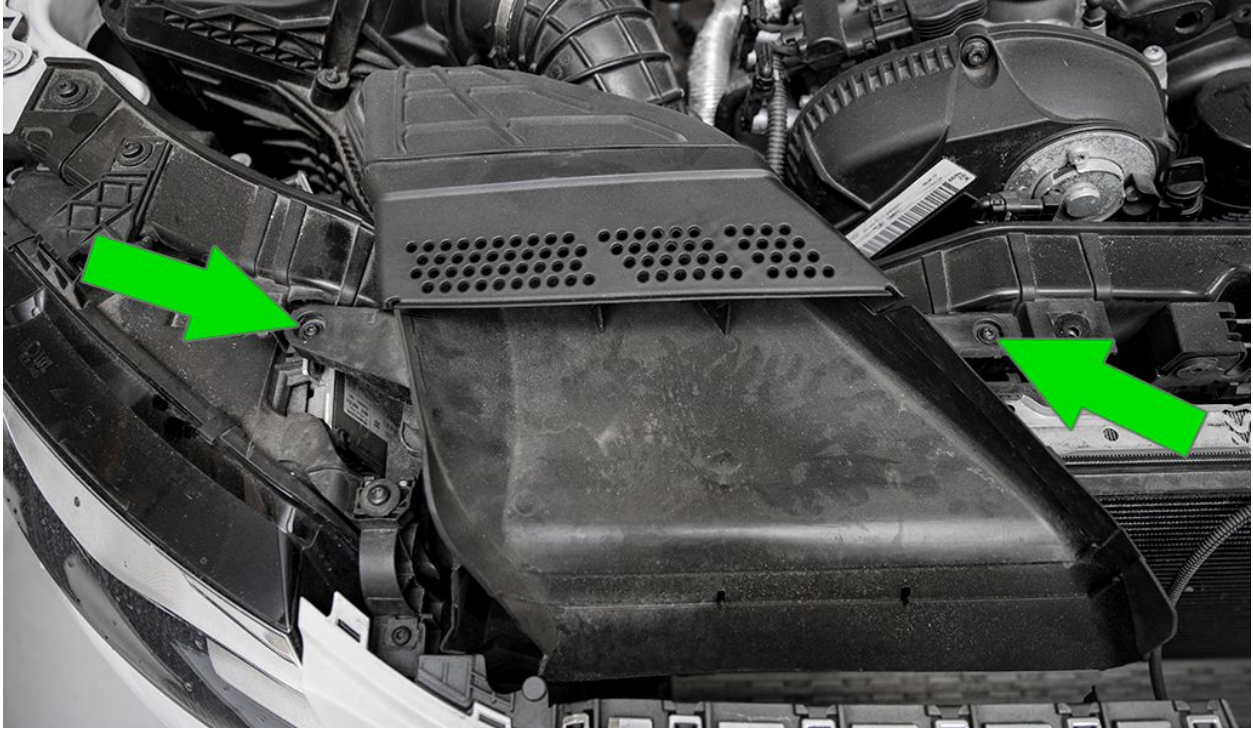
9. Remove the four bolts from the upper bumper cover using a T30 torx driver.



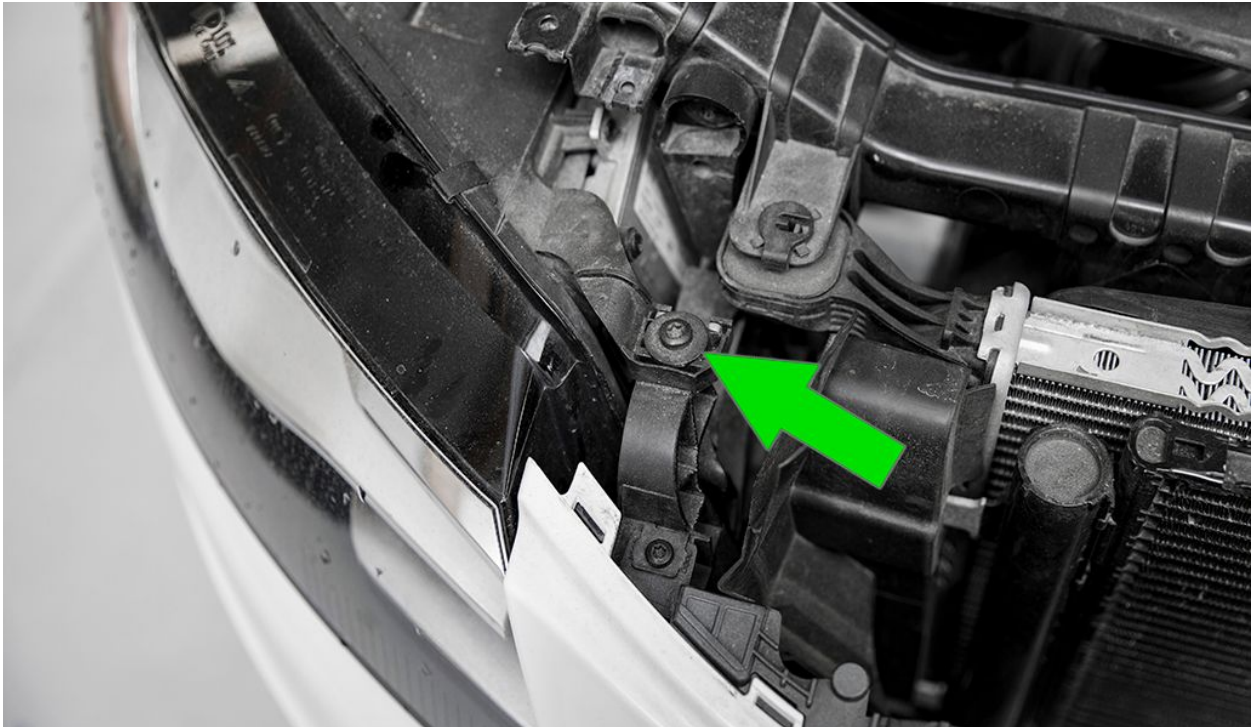
10. Remove the upper bumper cover by lifting up on the back portion and slide the entire piece backwards away from the front of the bumper to release it from the clips. Set cover aside.



11. Using a T25 torx driver, remove the two bolts securing the intake shroud. Pull to remove air shroud and place out of the way.



12. Remove the radiator support bracket bolt using a T25 torx driver. Repeat on both sides.



13. Carefully pull the bumper from the corner to release the tabs from the fender. Repeat on both sides. Pull bumper forward, DO NOT TRY TO FULLY REMOVE BUMPER IN THIS STEP!



14. If your car is equipped with a homelink garage opener device, unplug the connector from the module on the inside of the bumper.



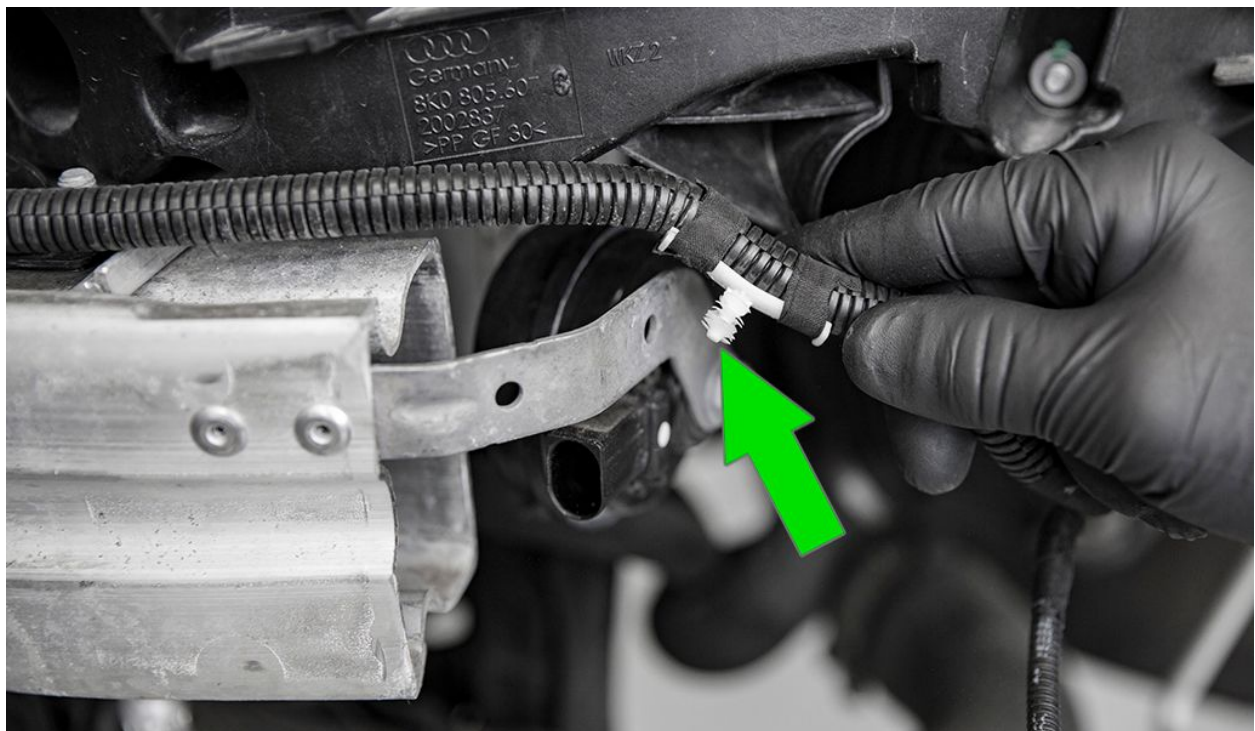
15. Unplug fog light connectors from both both sides. Fully remove front bumper and set aside.



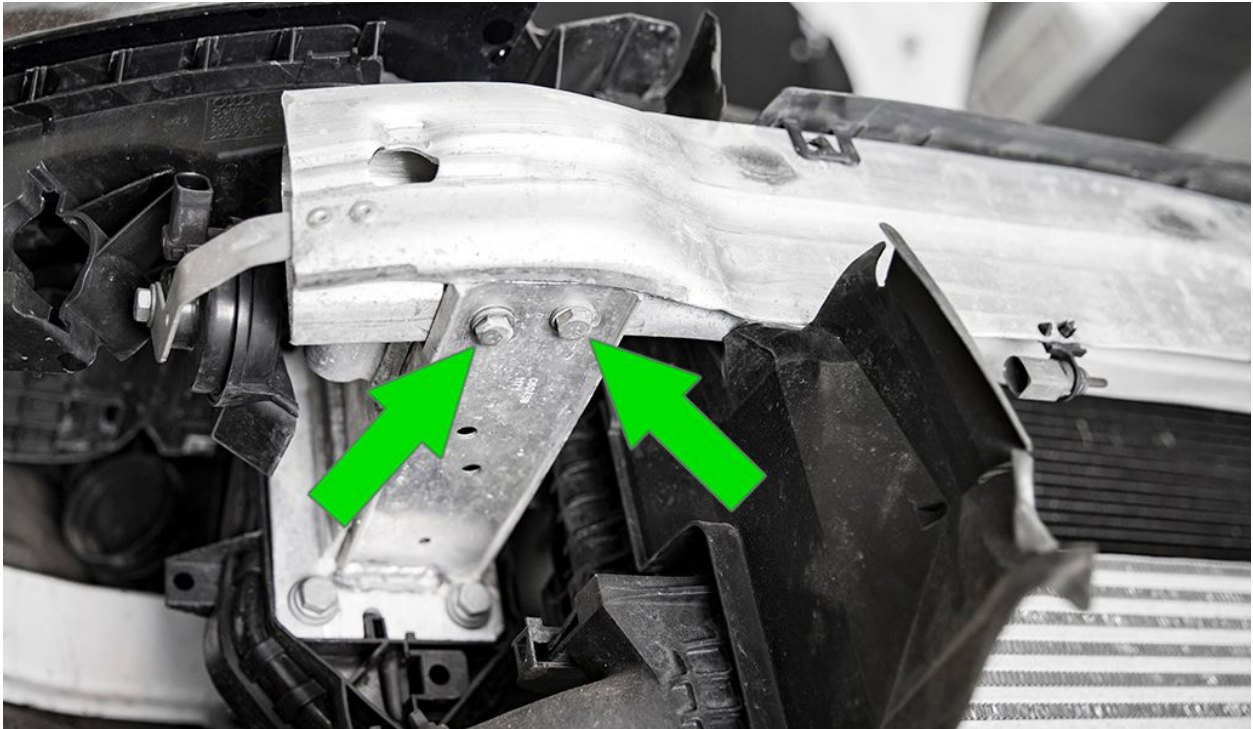
16. Unplug the connector from the IAT sensor located on the crash beam.



17. Remove the connectors from the horns, then pull to release the wiring harness clip from the horn mount bracket. Repeat on both sides.



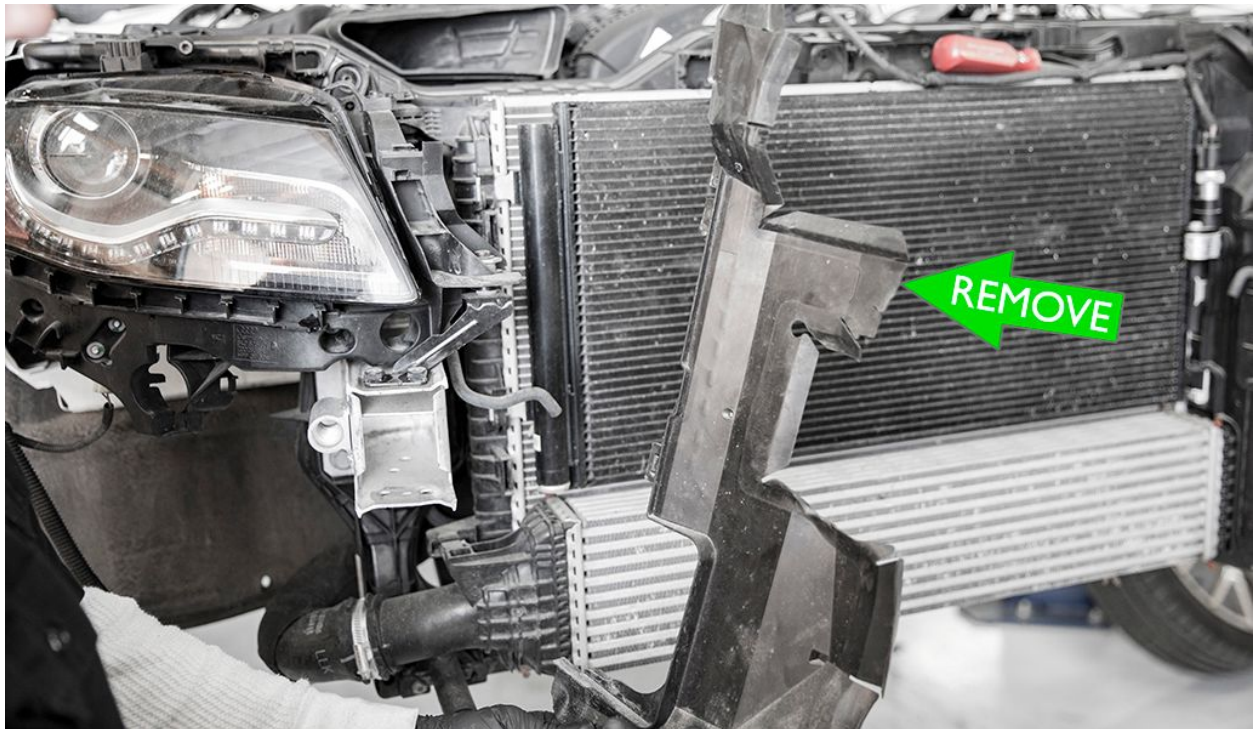
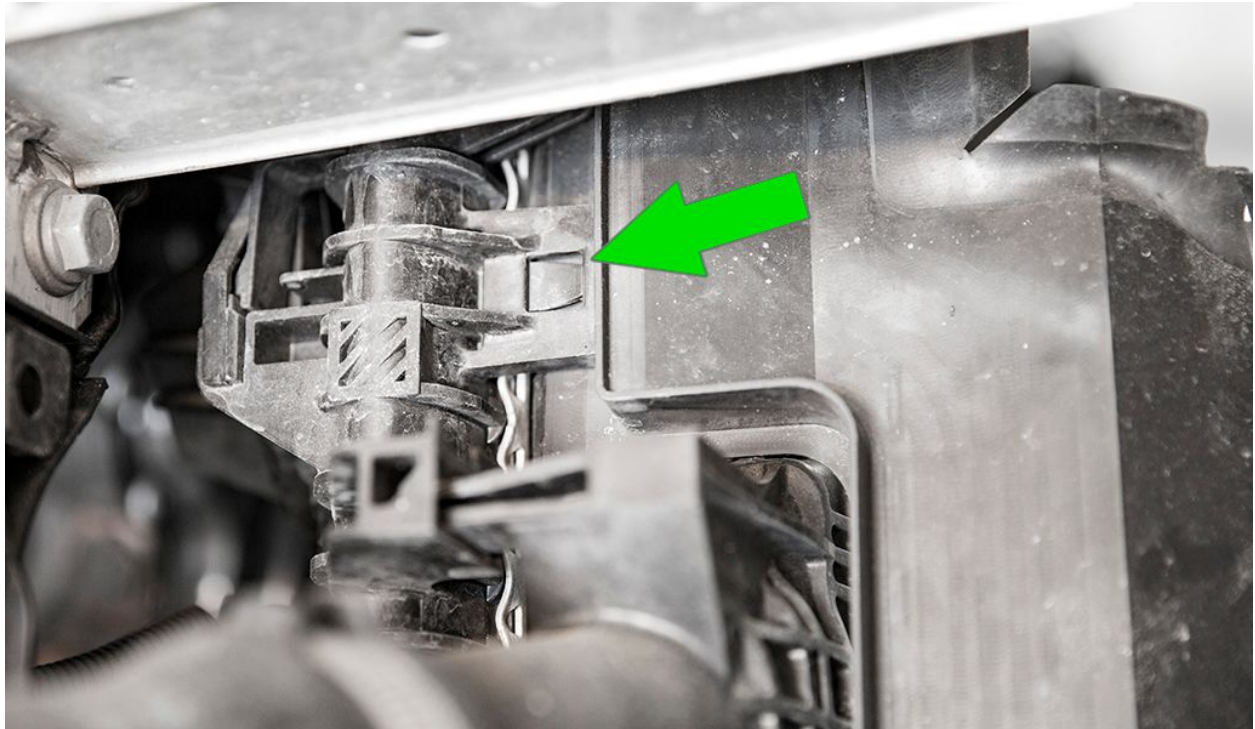
18. Remove the two crash beam mount bolts using a 13mm socket. Repeat on both sides.



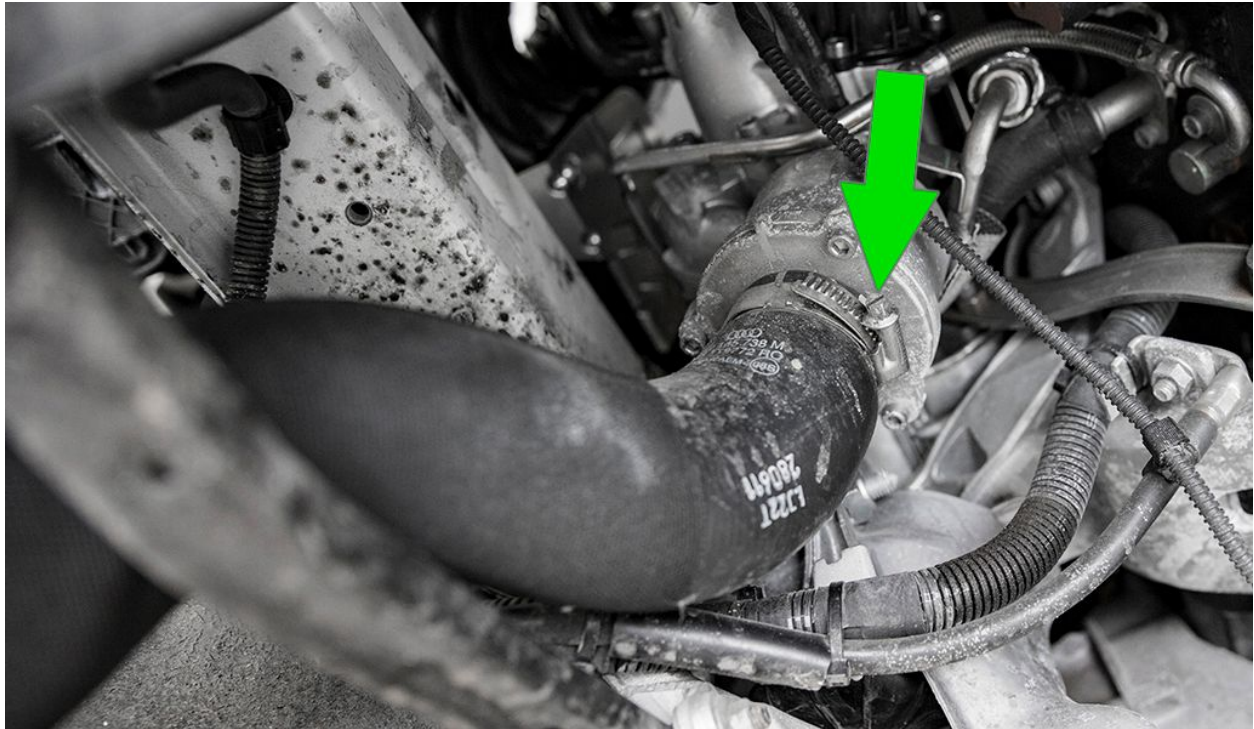
19. Remove the crash beam from the vehicle, you may have to tap the crash beam with a mallet from the rear to release it. Set entire beam aside.



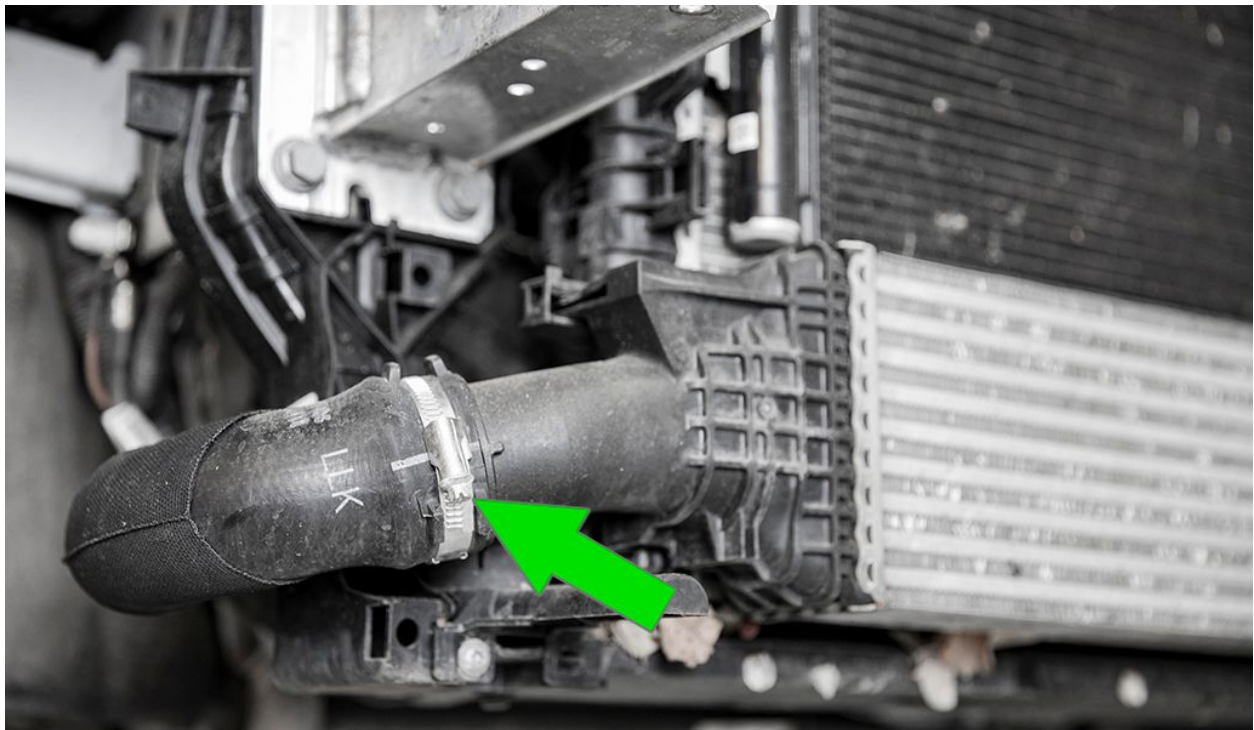
20. Remove the plastic air shroud from the side of the intercooler by releasing the two lock tabs. Repeat on both sides.



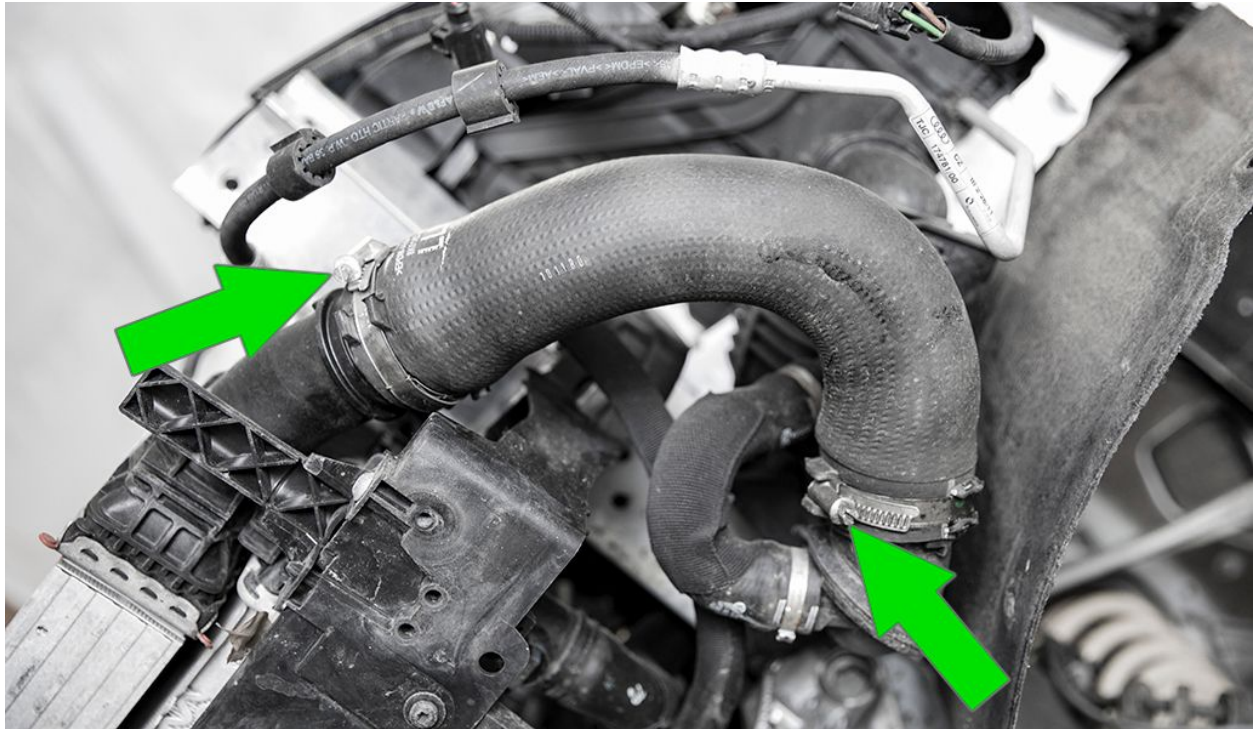
21. Loosen the hose clamp on the intercooler inlet hose on the turbo side.



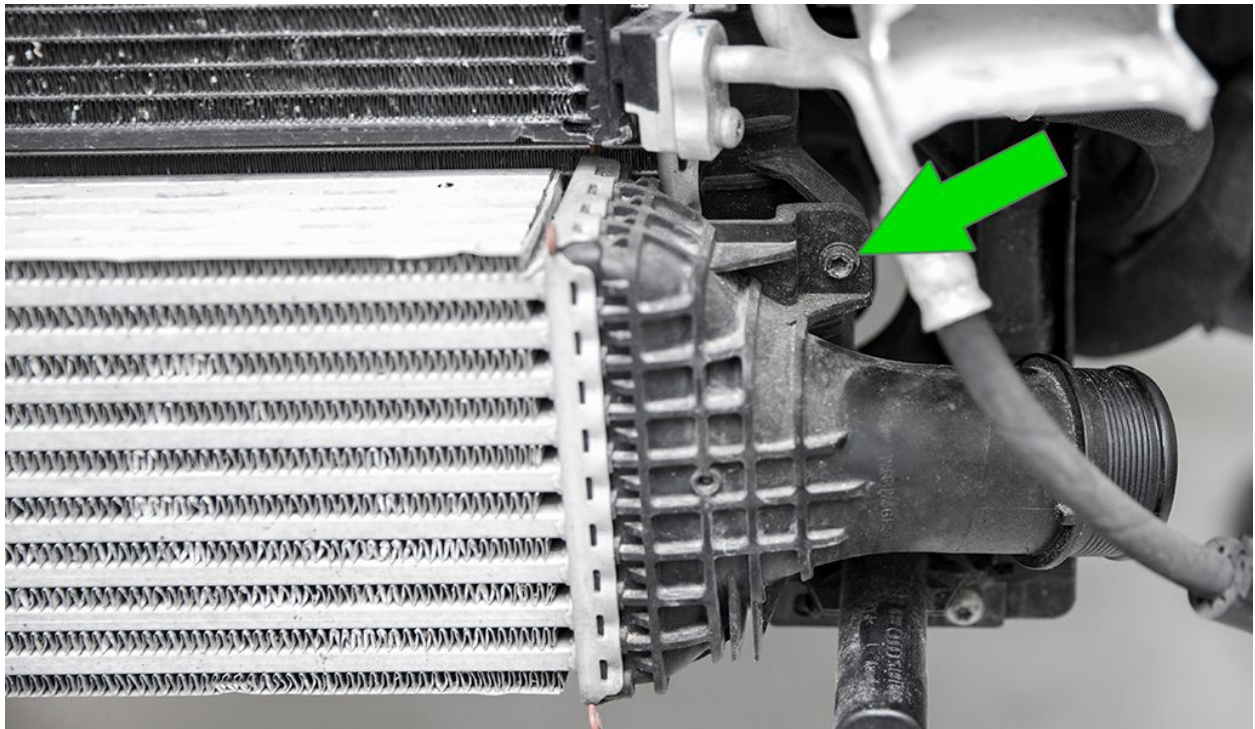
22. Loosen the hose on the intercooler inlet hose on the intercooler side, then fully remove the hose.



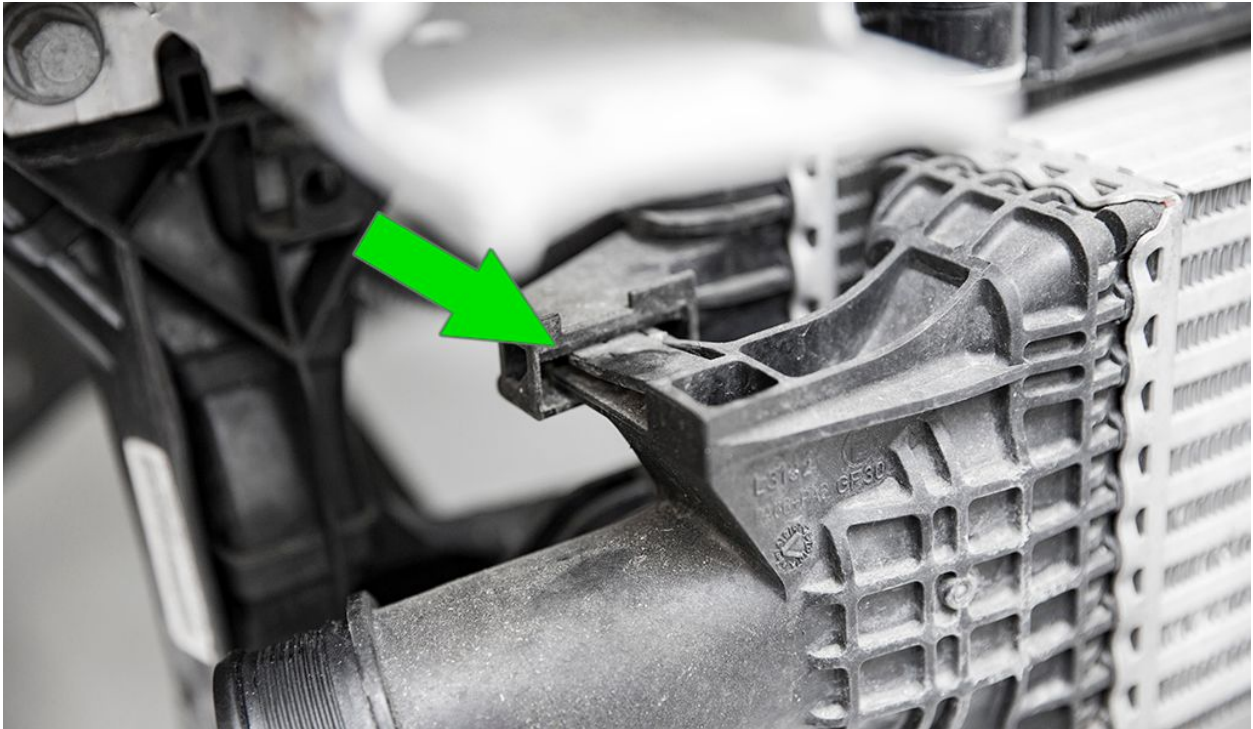
23. Loosen both hose clamps on the intercooler outlet hose, then fully remove hose.



24. Remove the intercooler mount screw using a T30 torx driver.



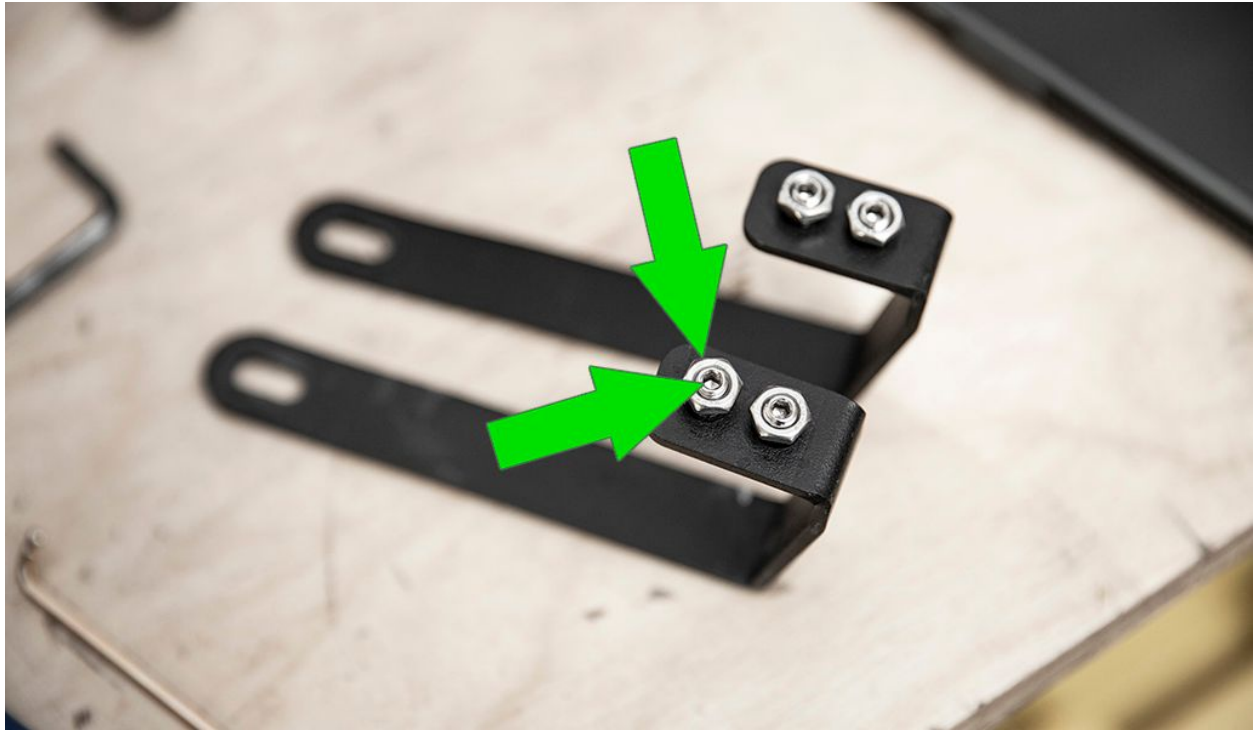
25. Push down on the locking clip to release the intercooler from the radiator support.



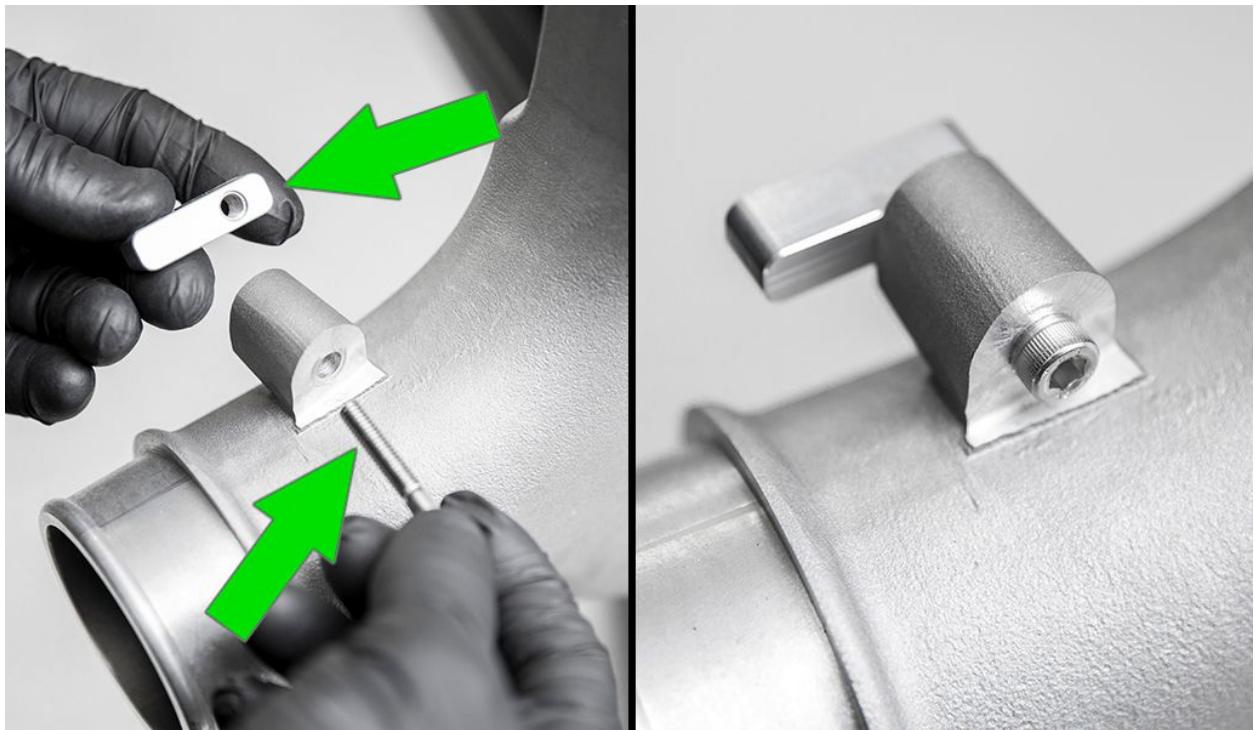
26. Lift directly up on the intercooler to release it from the locating grooves on the radiator support, then fully remove it from the vehicle.



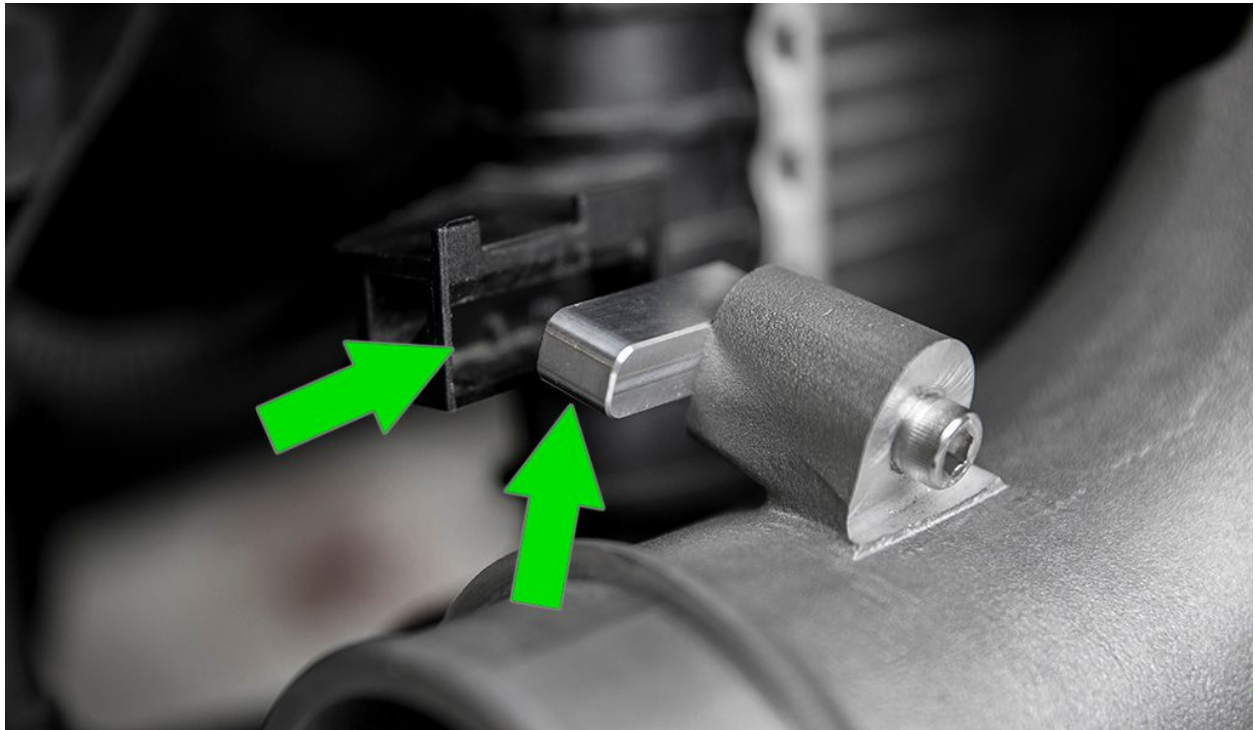
27. Thread the included allen studs and nuts into the black intercooler brackets as seen below, tighten them loosely by only a few threads.



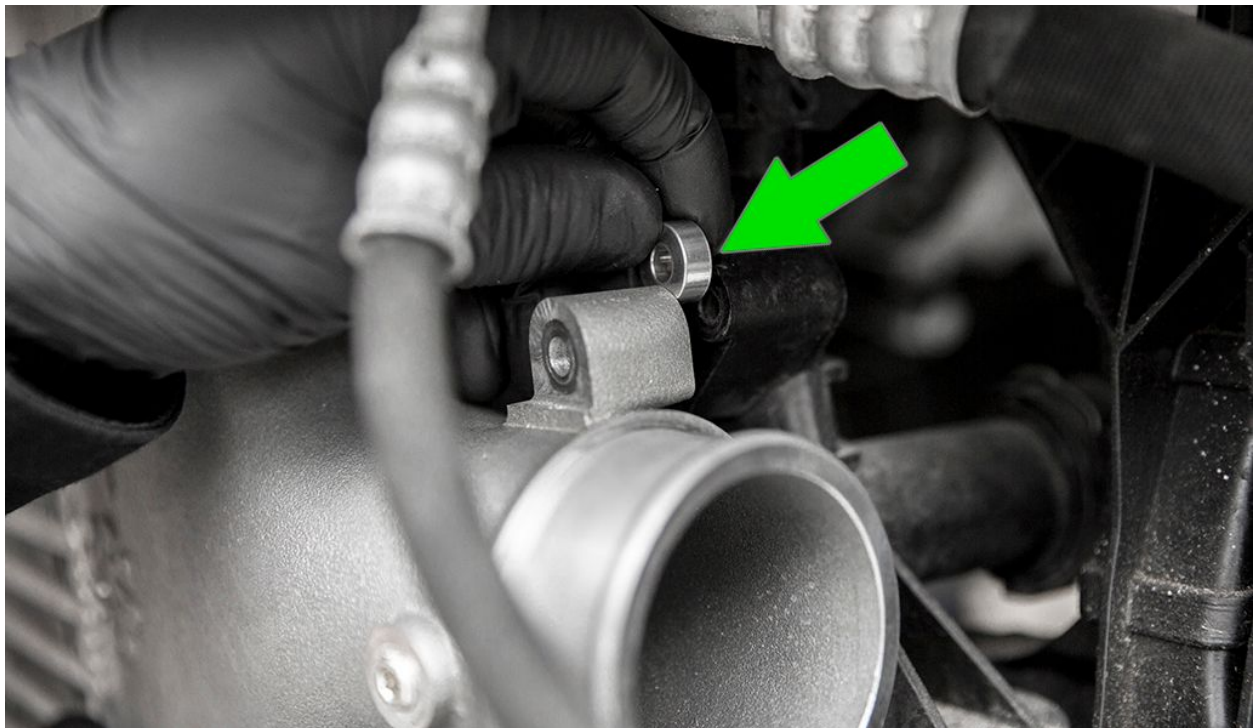
28. Install the included billet mounting block to the front left side intercooler end tank using the supplied 35mm length allen bolt. Tighten bolt with a 5mm allen wrench.



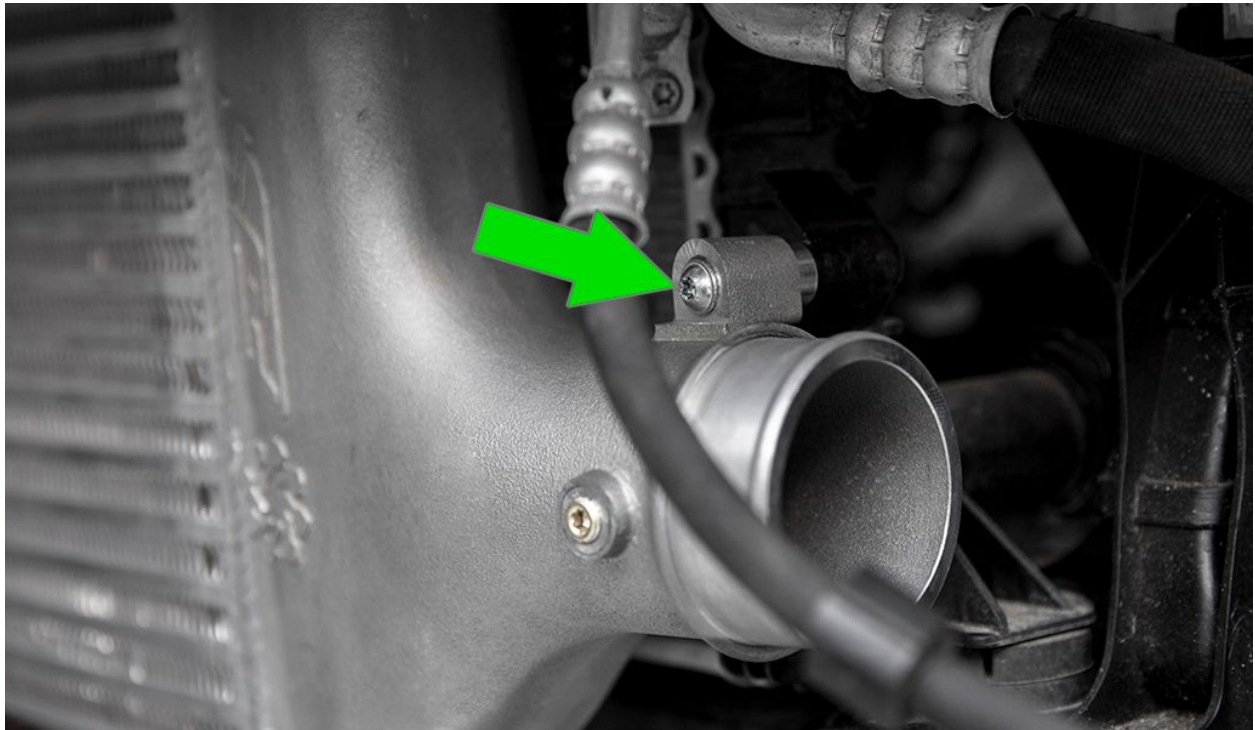
29. You may find it helpful to have a second person hold the intercooler for support during the next few steps. Carefully place the intercooler in place on the vehicle by aligning the billet mounting block to the radiator support. Do not let go of the intercooler in this step!



30. Keeping the intercooler supported, place the included aluminum spacer between the front right side end tank and radiator support.



31. Continue keeping the intercooler supported with the aluminum spacer in place, install the included screw with a T30 torx driver. The intercooler will now support it's own weight.

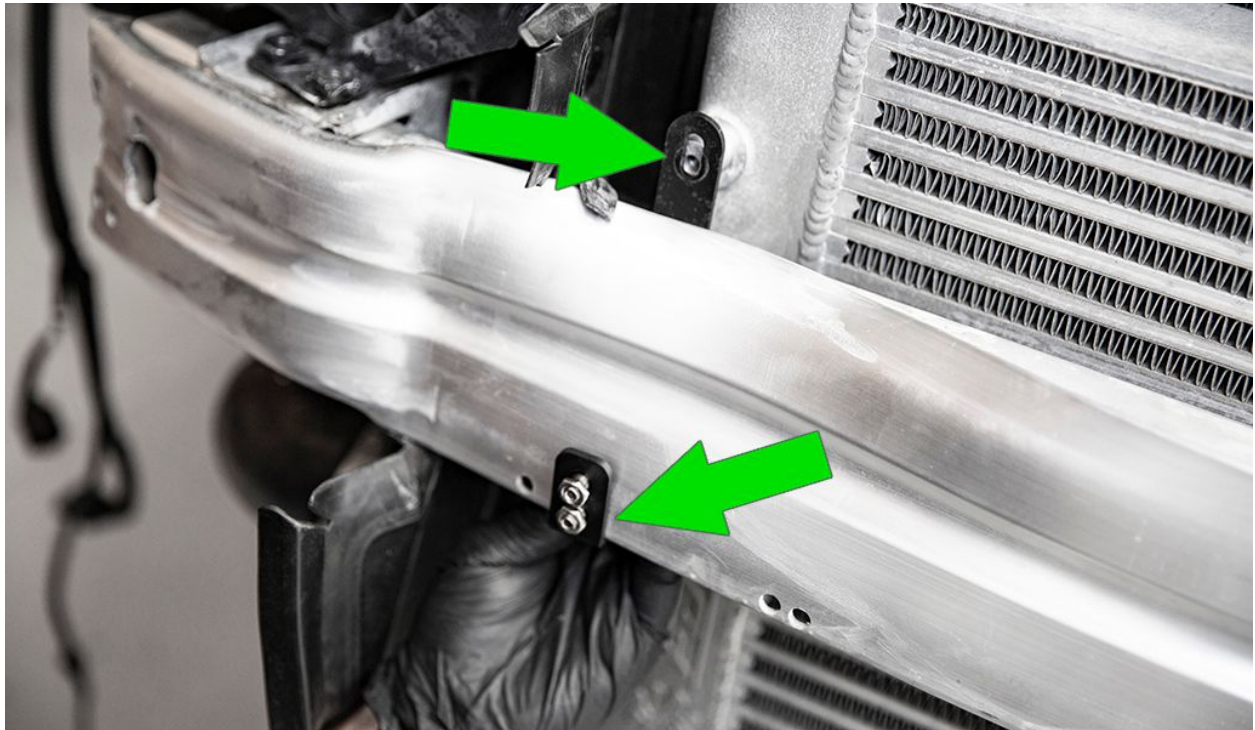


32. Re-install the crash beam with the factory 13mm bolts.

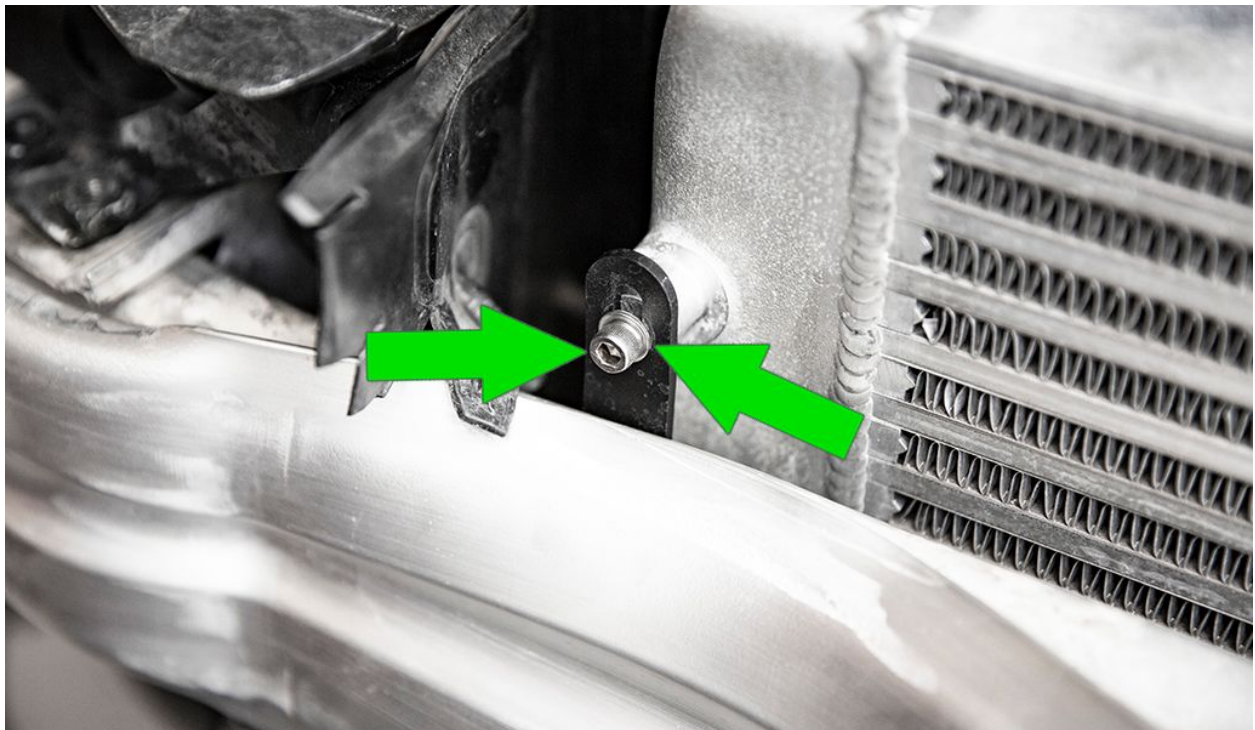
NOTE: If you are installing a RS4 style aftermarket grille to the vehicle, it is recommended to paint the crash beam black for a cleaner look. The IE intercooler is highly visible when installed



33. Place mount brackets behind crash beam and line up with intercooler front mounting point as seen below. Install bottom of bracket tightly to crash beam so that it can support the IC.



34. Install the included allen head bolts with included washers to intercooler front mount point. Tighten firmly.



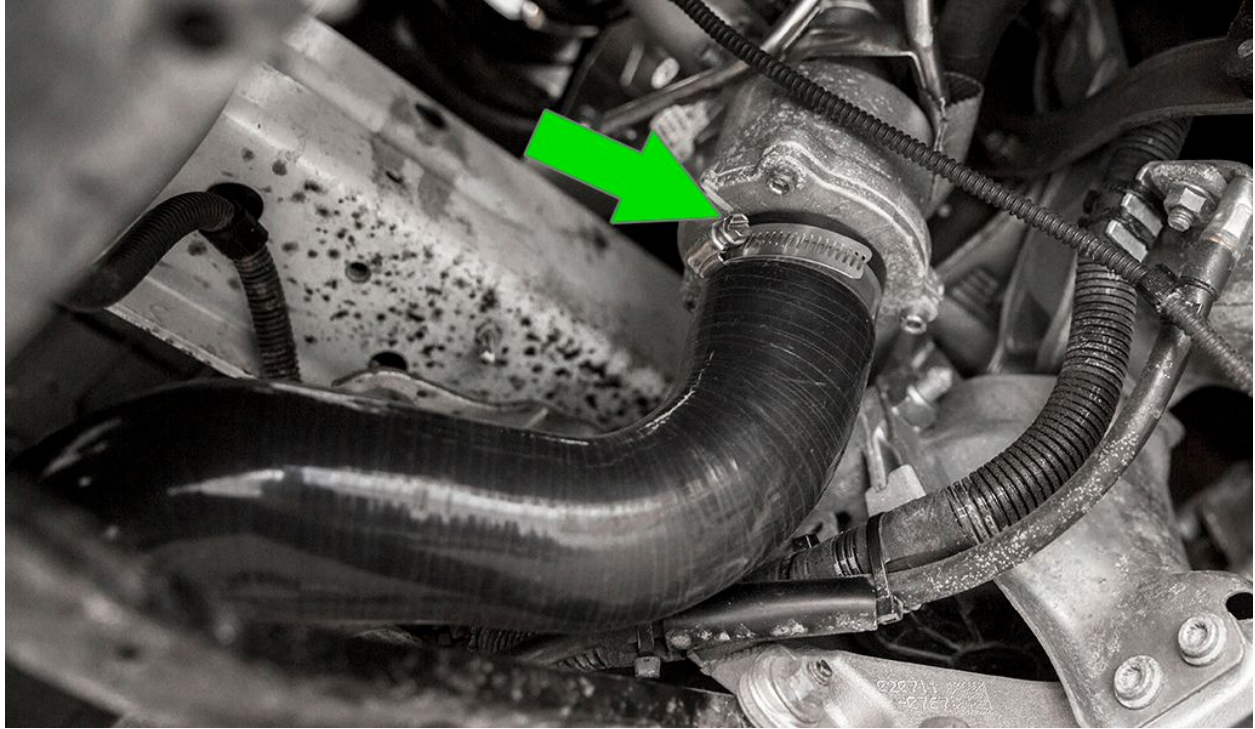
35. Tighten all 4 allen studs firmly against the crash beam.



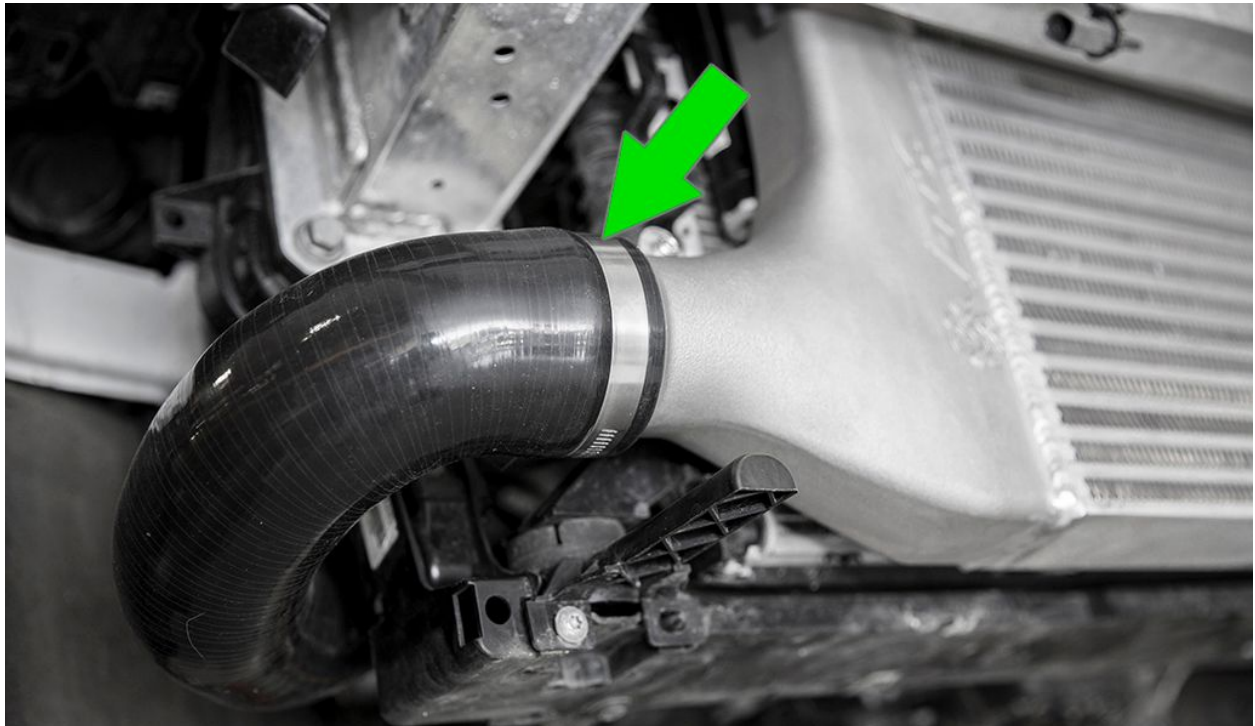
36. Now tighten the 4 nuts firmly against the brackets to stop the stud from loosening.



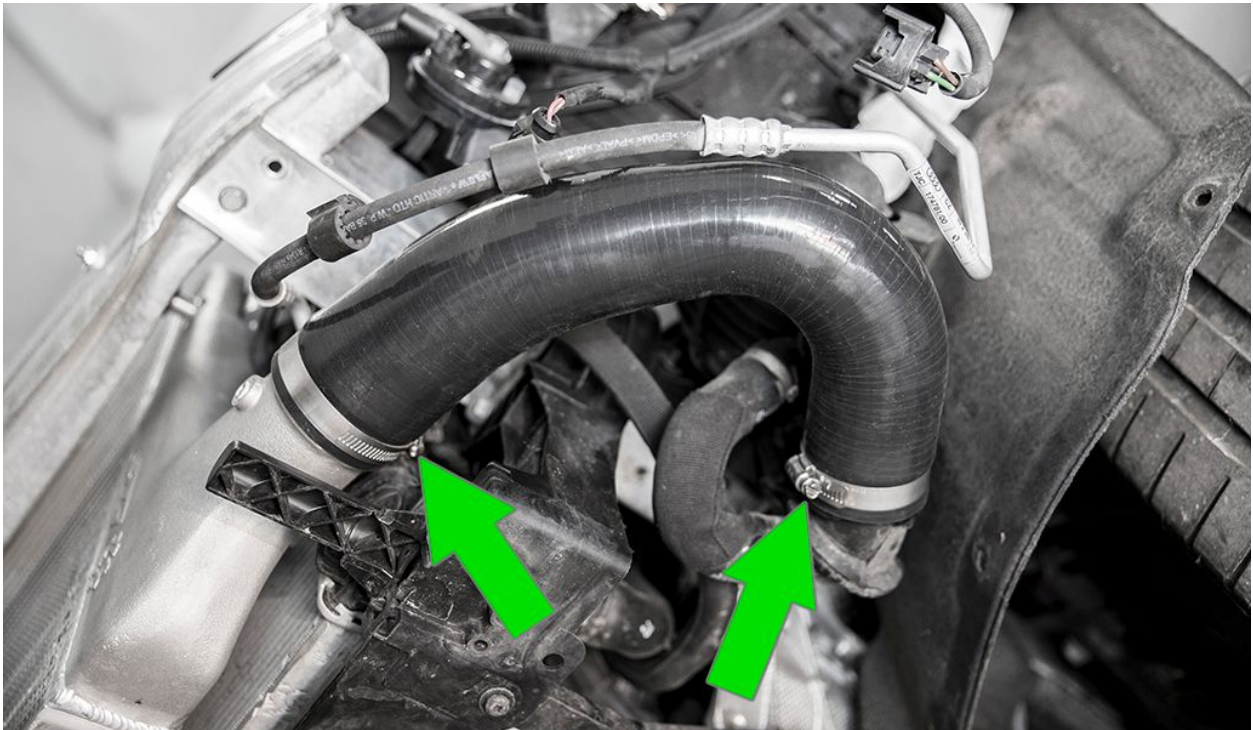
37. Install the new supplied intercooler inlet hose to the turbo outlet using the supplied hose clamps. Leave the hose clamp loose in this step.



38. Install the intercooler inlet hose to the intercooler inlet with the supplied hose clamp. Ensure the intercooler inlet hose is installed correctly without any tension. Tighten both hose clamps.



39. Install the intercooler outlet hose with the supplied hose clamps. Again, ensure the hose is installed correctly without any tension. Tighten both hose clamps.



40. Verify all the intercooler mounting brackets, install hardware, hoses, and hose clamps are installed and tightened. Follow the applicable install steps in reverse and re-assemble the

vehicle. The only parts that should not be reused is the factory installed intercooler and hoses.



41. Once re-assembled, start the car and inspect for any leaks or rubbing components. Enjoy the increased performance of your new IE FDS Intercooler!



Thank you for purchasing another Integrated Engineering product. We are dedicated to serving your VW/Audi engine and performance needs. Please check our website frequently for new

product releases. If you have any questions or concerns about this product please do not hesitate to contact us.

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