



## AUDI TTRS 8S INTERCOOLER FITTING INSTRUCTIONS .

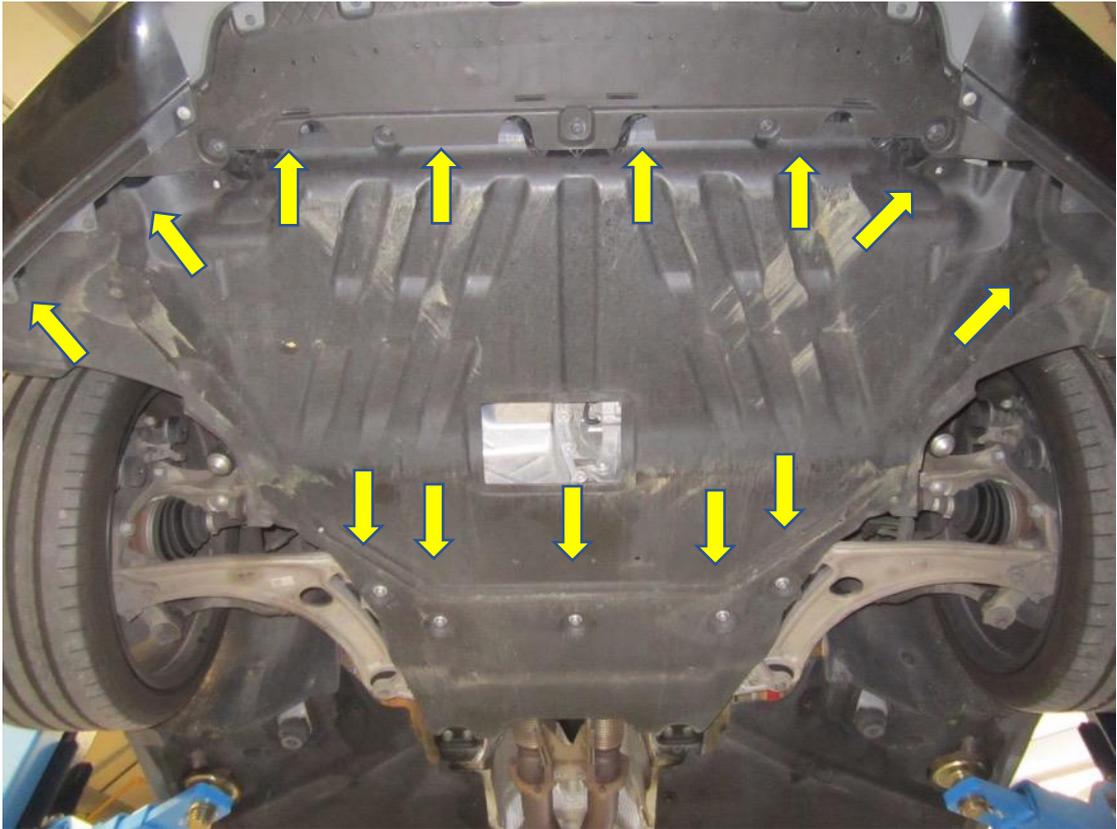


**Please thoroughly read through and familiarize yourself with these instructions in their entirety prior to beginning any part of the installation process of any component. Please also ensure the vehicle and engine has cooled down sufficiently to avoid risking possible skin burns or other injury.**

### **TOOLS NEEDED:**

T25, T20, T30, T45 TORX DRIVE  
HOSE CLAMP REMOVER  
ANGLE GRINDER WITH GRINDING DISC  
BARREL GRINDER WITH CARBIDE DEBURRING BIT OR A ROUND FILE  
USE OF A CAR RAMP OR SUITABLE AXEL STANDS  
15MM SOCKET AND DRIVE

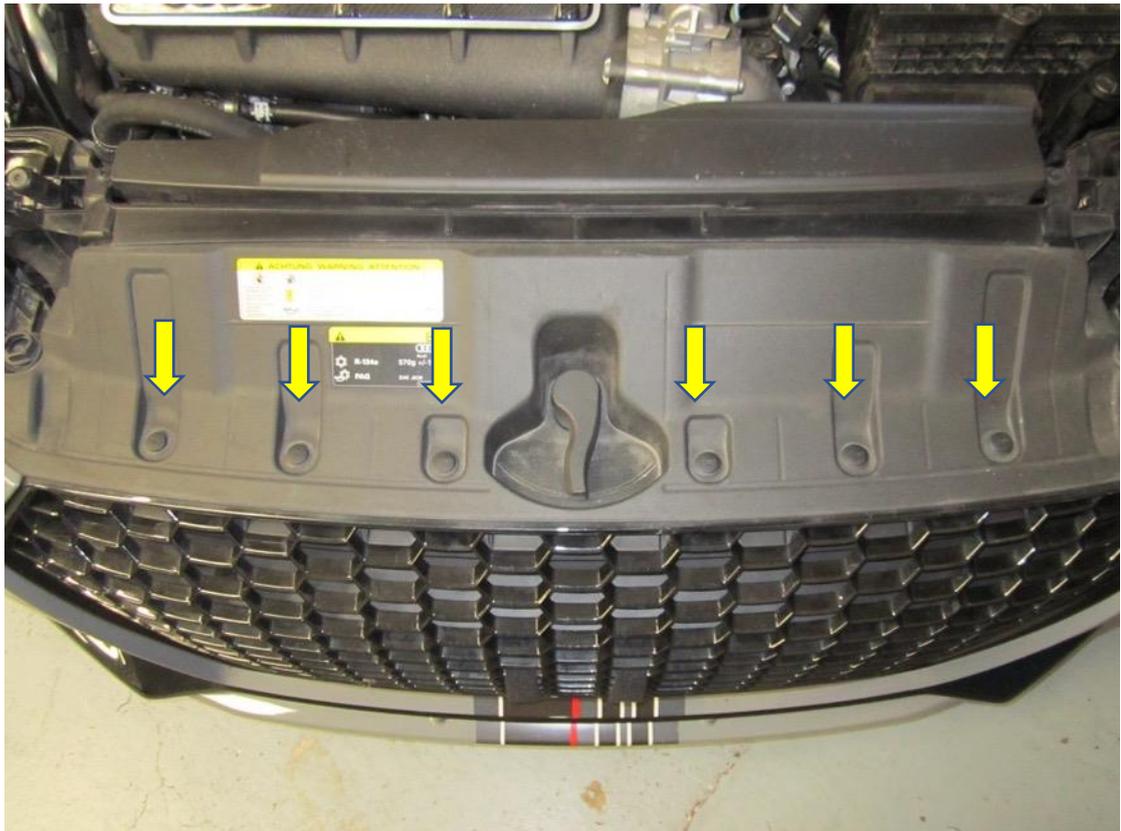
1. Raise the vehicle off the ground using either a car ramp or axle stands then begin the process of removing the undertray, remove the 8x T20 fasteners as pictured below. Then remove the 5x T45 fasteners at the rear of the undertray.



2. Now remove the 2x T20 fasteners on each side of the vehicle to where the arch liner meets the lower bumper.



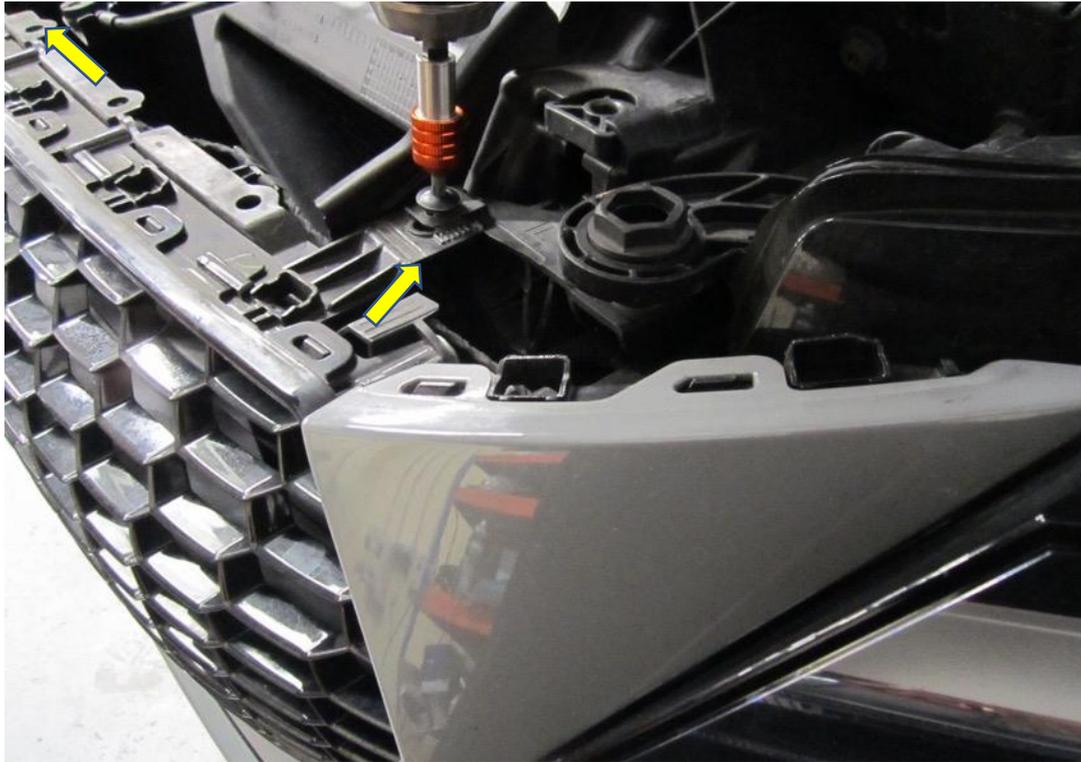
3. Remove the six fasteners that hold the plastic slam panel in position using a trim clip remover.



4. Remove the bonnet catch by pushing in the clip at the rear of the lever, the slam panel can then be removed.



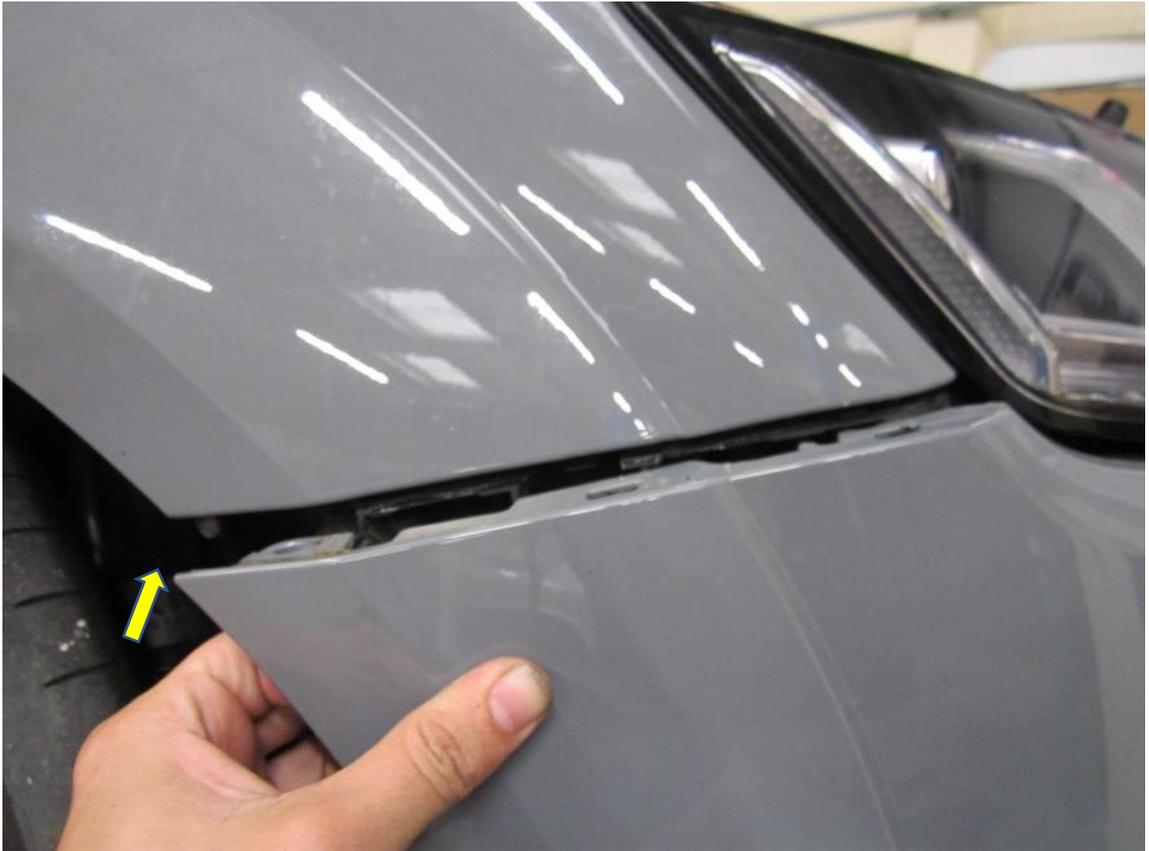
5. Remove the 2x T25 fasteners that hold the centre of the bumper to the front panel on the vehicle.



6. Remove the 3x T25 Torx fasteners that hold the arch liner in place either side of the vehicle.



7. Remove the T25 Torx fastener that holds the bumper to the wing.

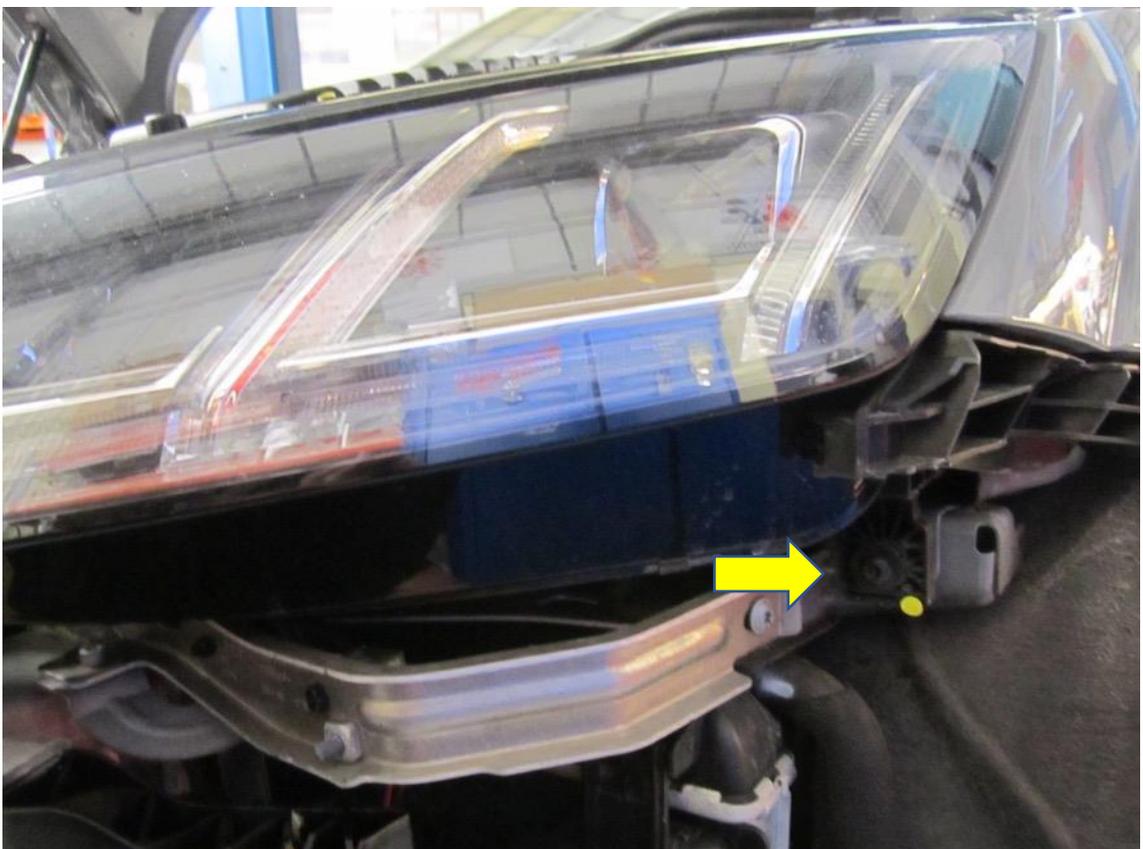
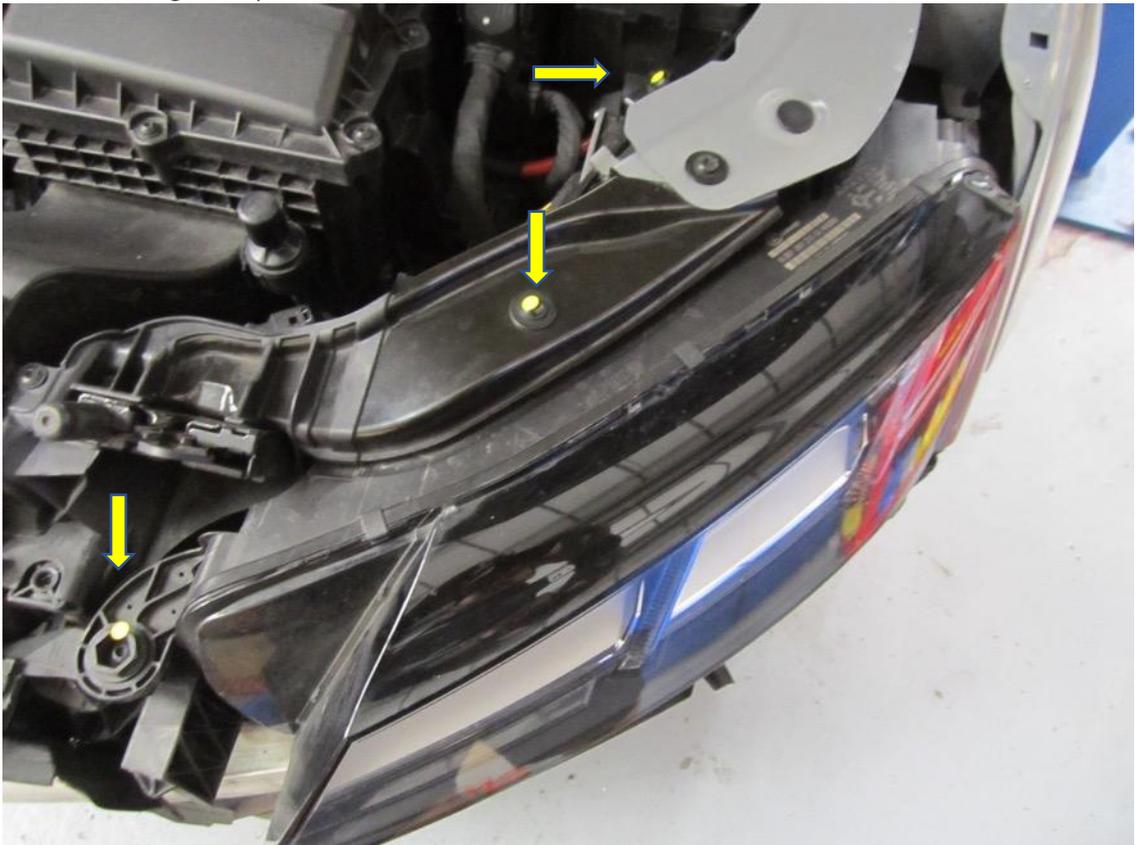


Then pull the bumper outwards to release it from the wing.

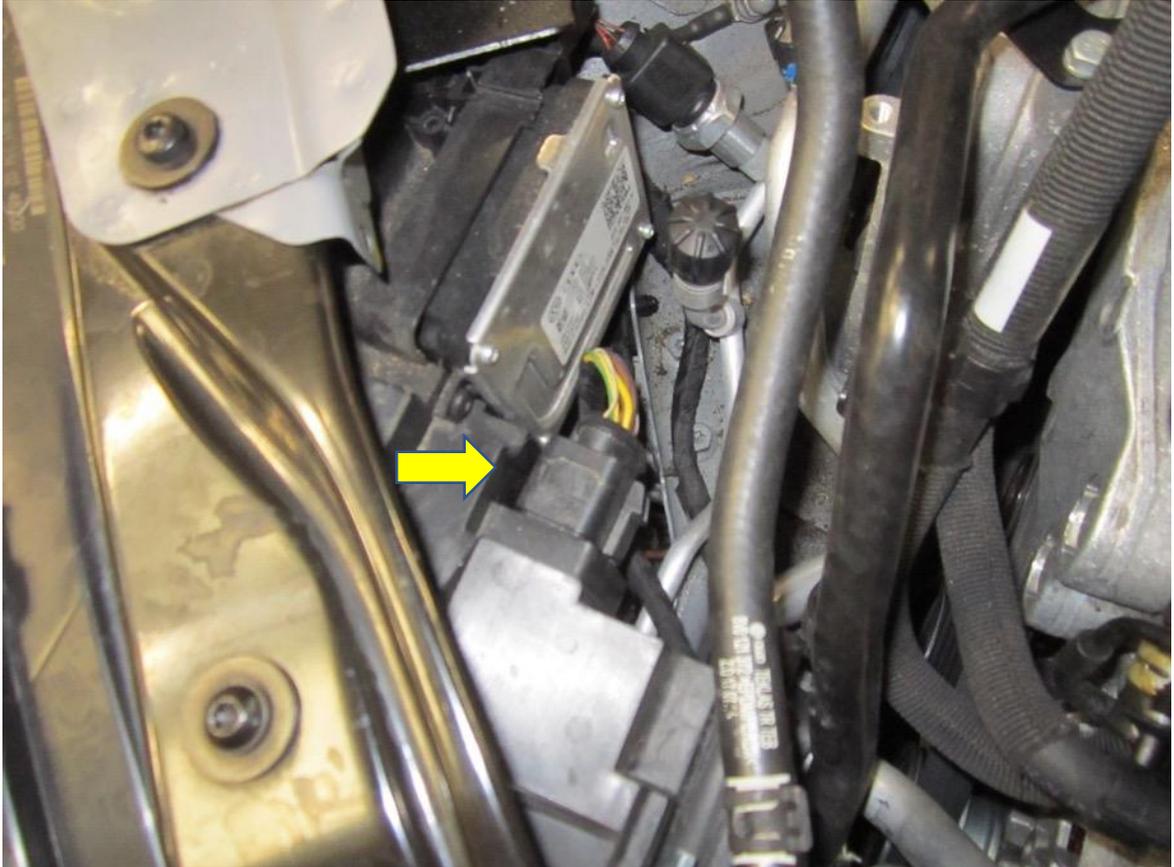
8. Underneath the vehicle, disconnect the wiring loom from the bumper.



9. The vehicle headlights will now need to be removed, start by removing the 4x T30 fasteners that hold the lights in position.



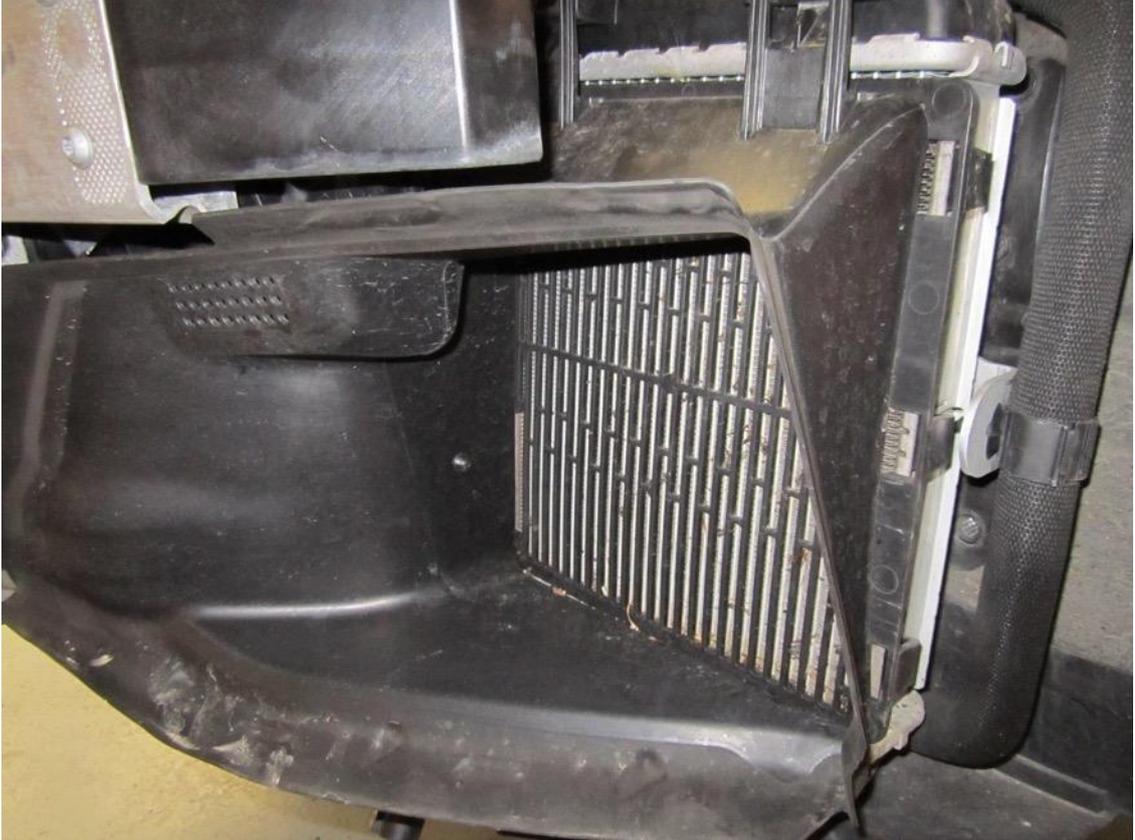
10. Now disconnect the wiring loom on the rear of each light.



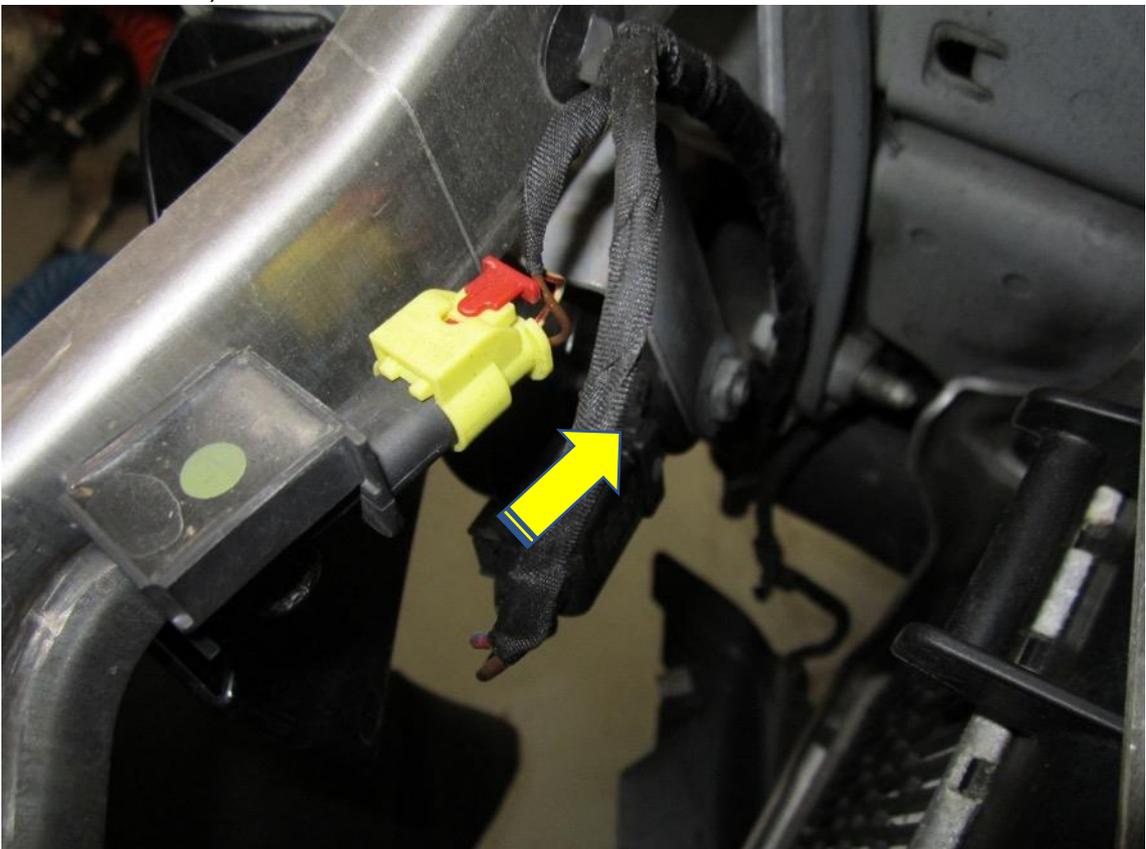
11. Remove the vehicle's plastic bumper sliders that are held in place with 2x T30 fasteners located under each front wing .



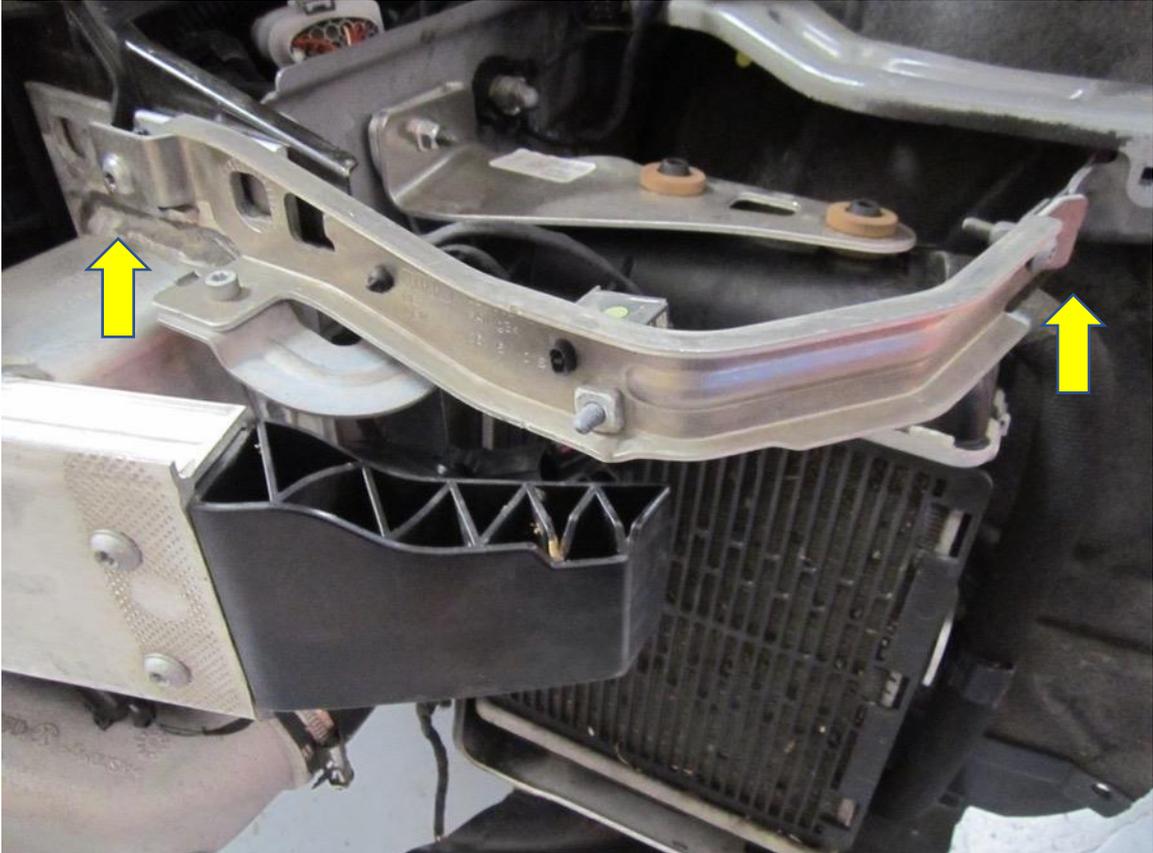
12. The headlights can now be removed.
13. Remove the two auxiliary radiator ducts, these are located on each radiator in front of each front wheel.



14. Remove the horn, bracket and loom either side of the vehicle.



15. Using a T30 Torx Drive remove the under-headlight bracing.

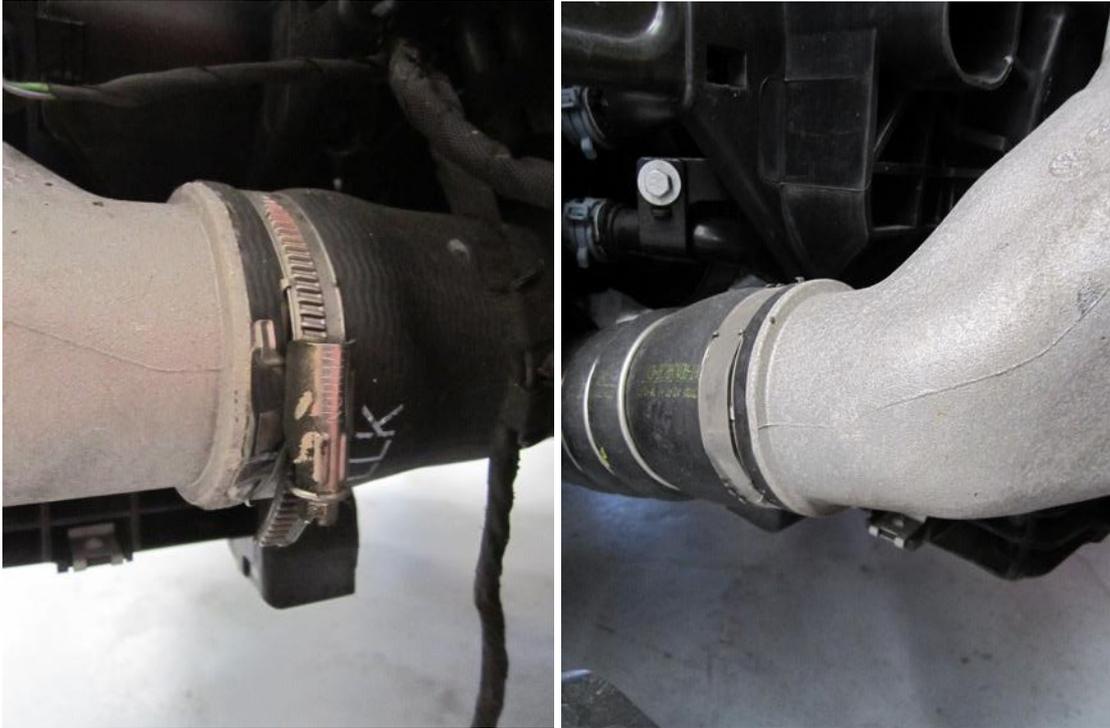


16. Using a 15mm socket drive undo the eight bolts that hold the crash bar in position.

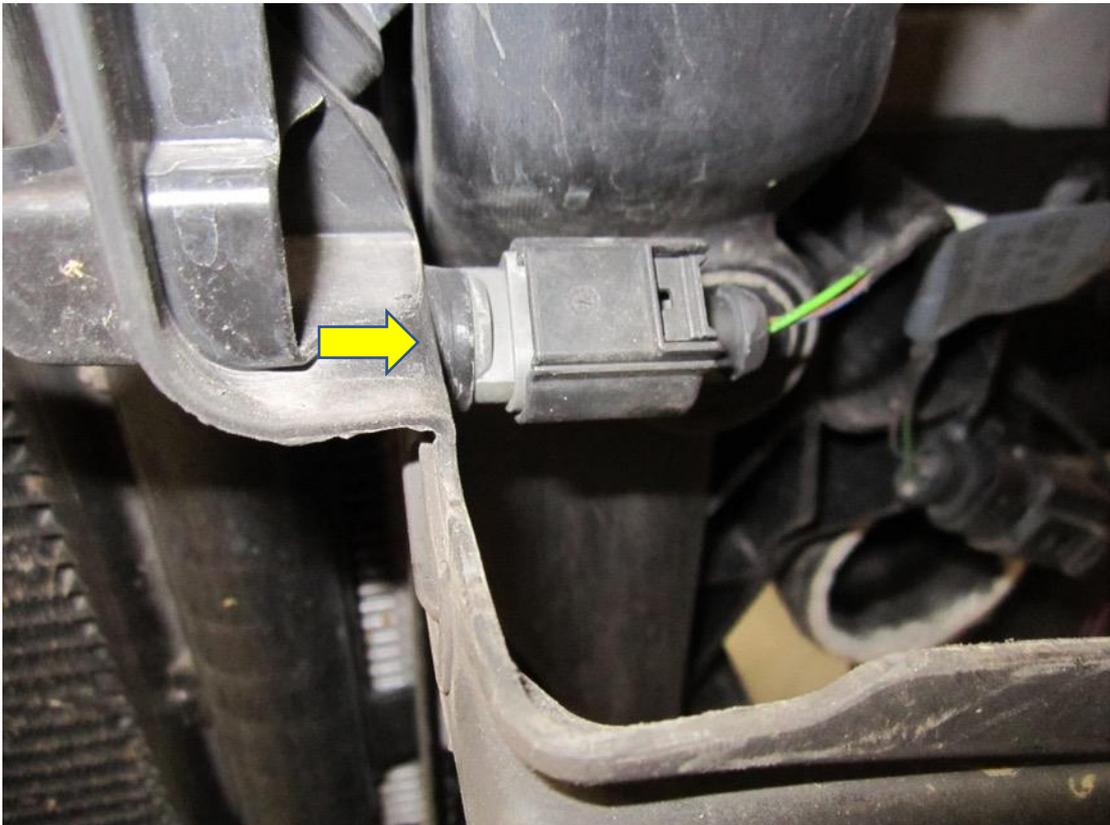


17. The crash bar can be removed by pulling away from the car and twisting in a downward motion.

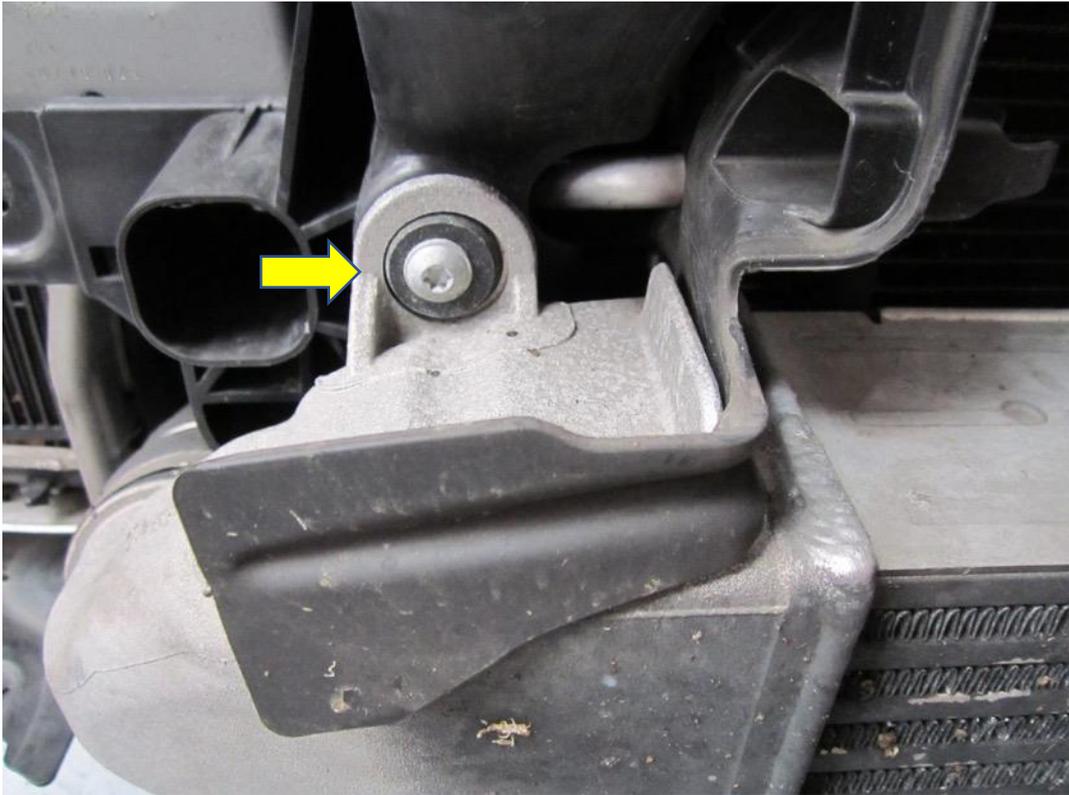
18. Undo both the hose clamps on the feed and return pipes to the intercooler.



19. Remove the air temp sensor.

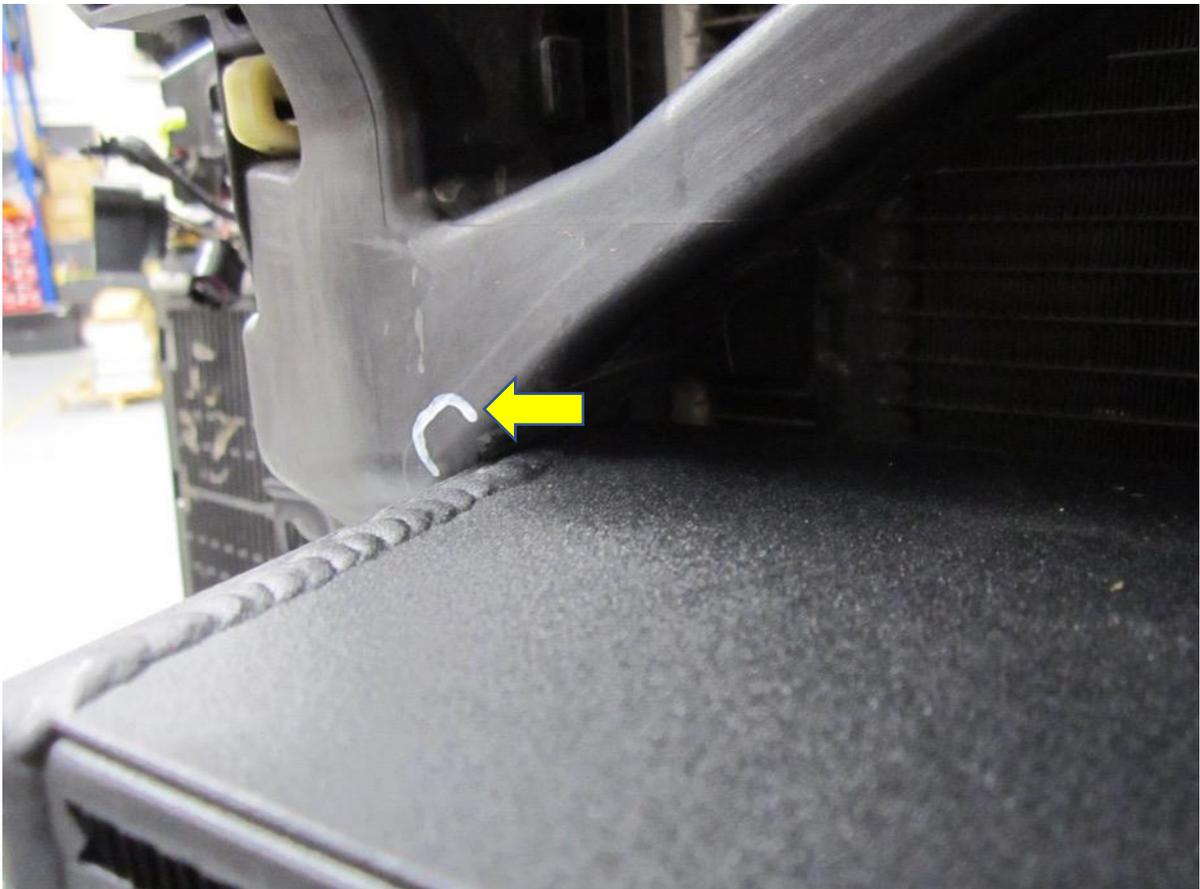


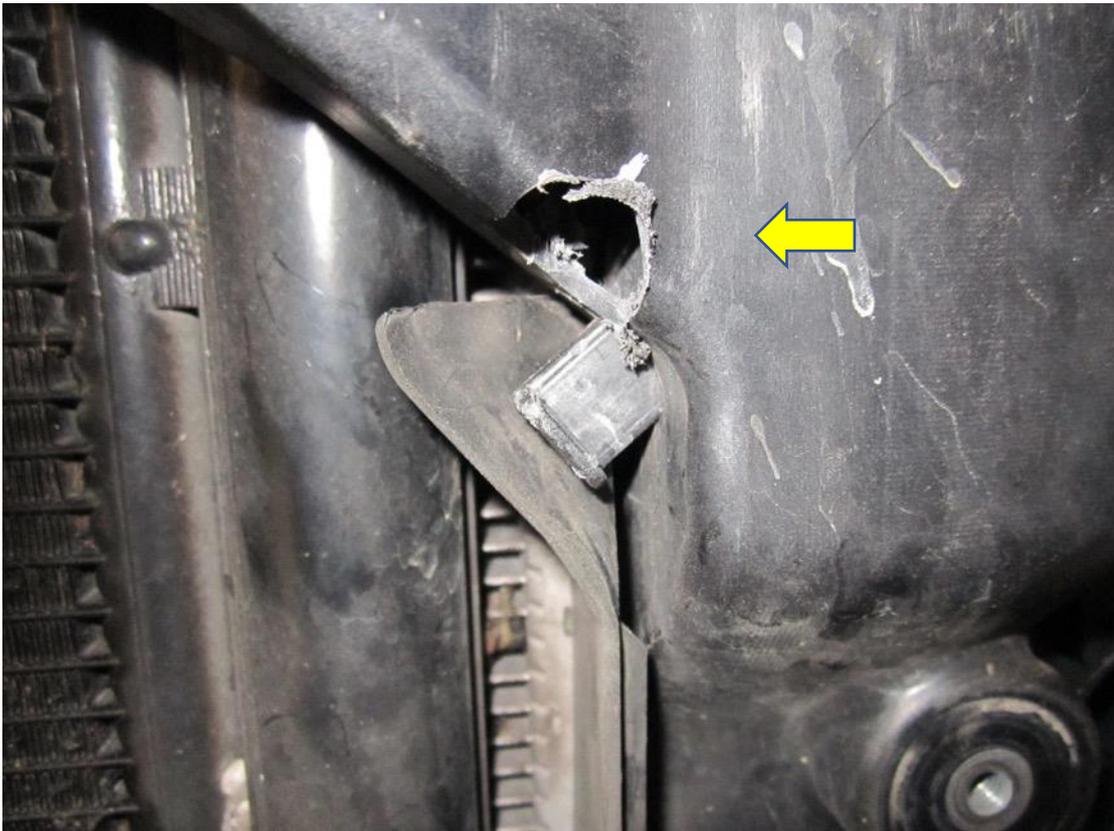
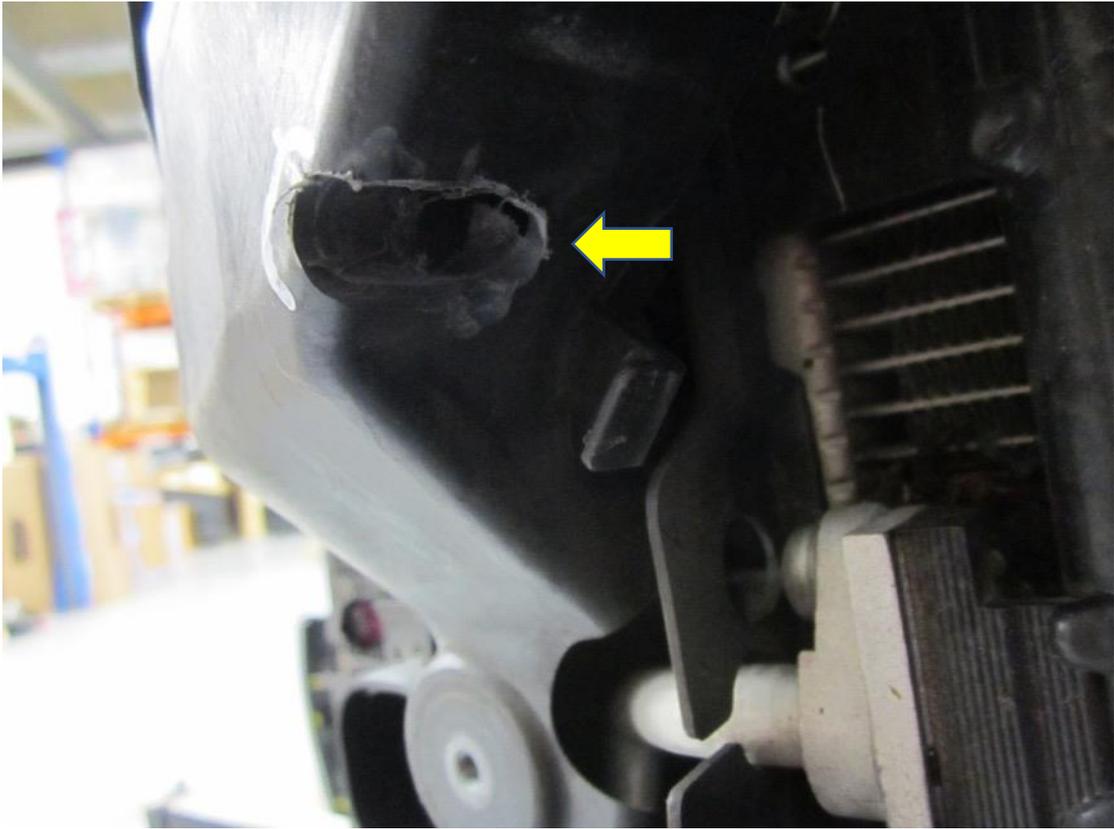
20. Using a T30 Torx drive undo the four intercooler mounts, the intercooler duct and the temp sensor from the duct .



21. Remove the OEM intercooler.
22. In order to fit the new larger Forge Motorsport intercooler a small amount of plastic needs to be trimmed from the plastic front panel. We advise removing small amounts at a time until

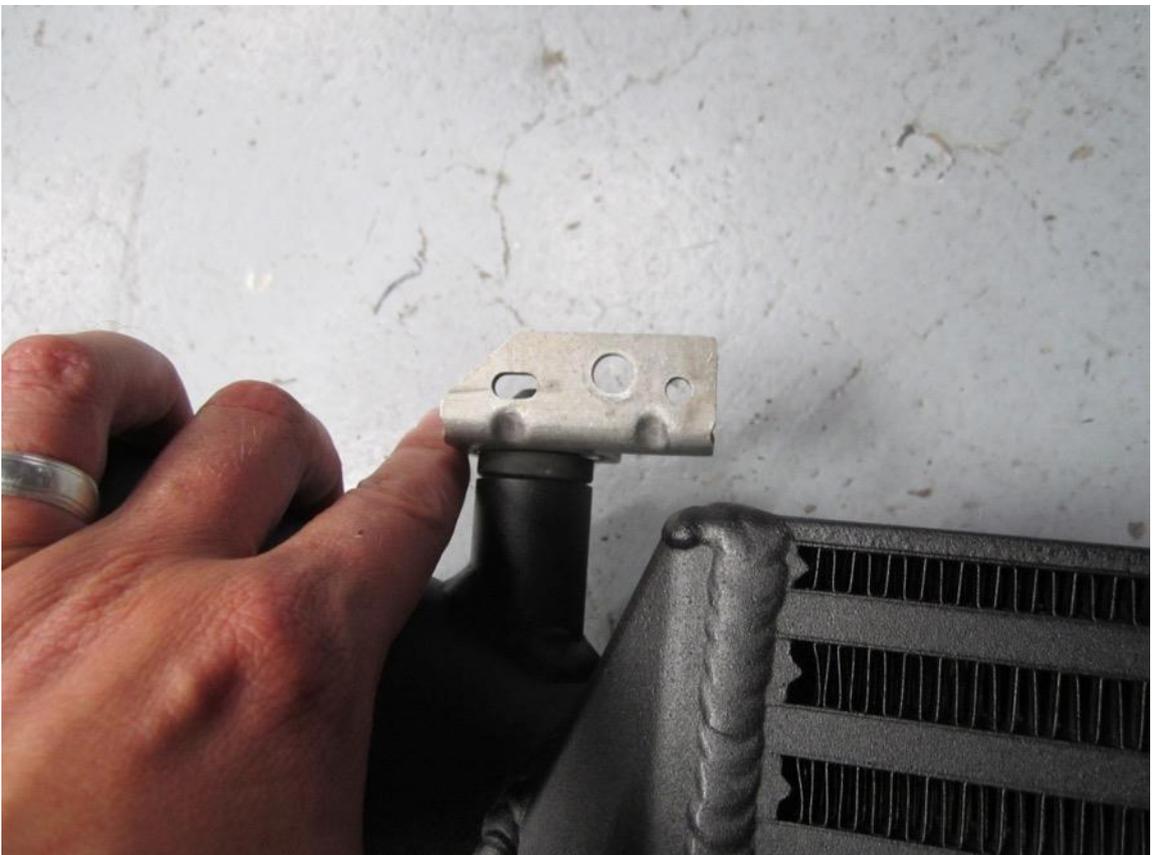
adequate clearance is achieved to fit the intercooler.





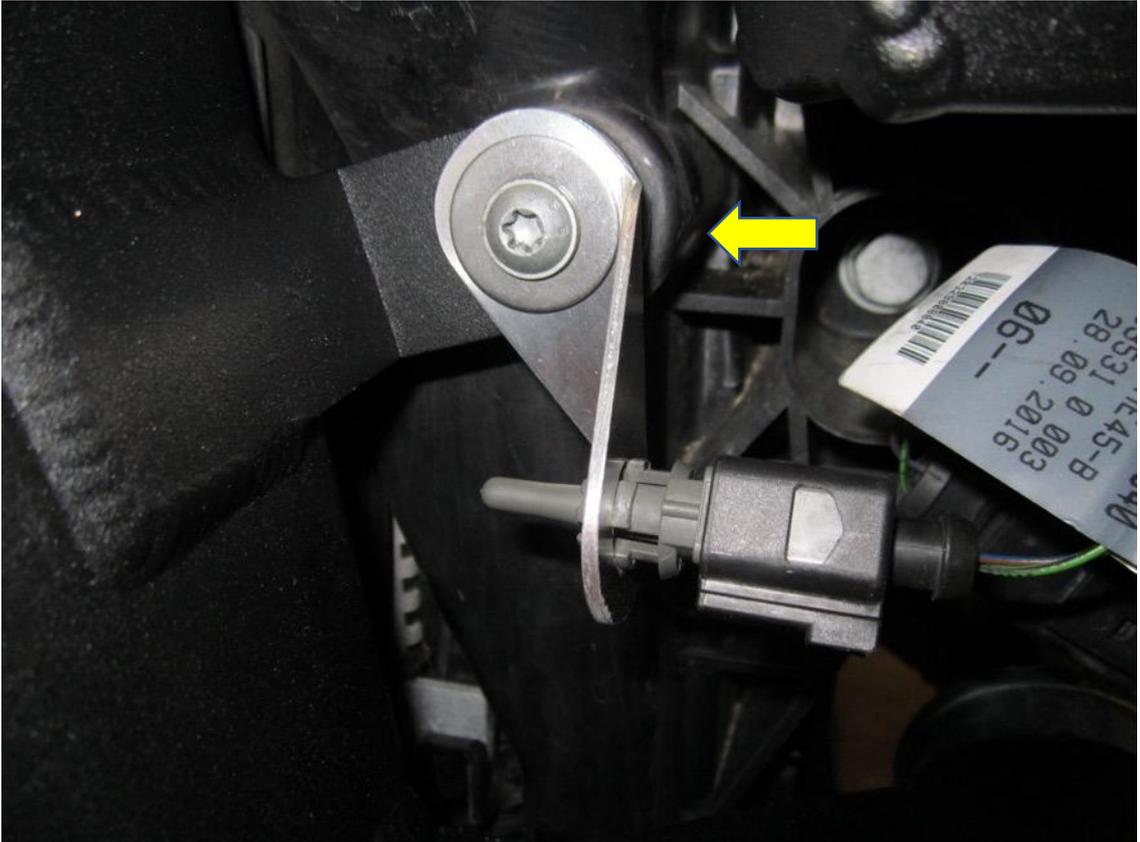
23. The crash bar can now be re fitted.

24. Fit the rubber bushes and inserts provided into the new Forge Motorsport intercooler.



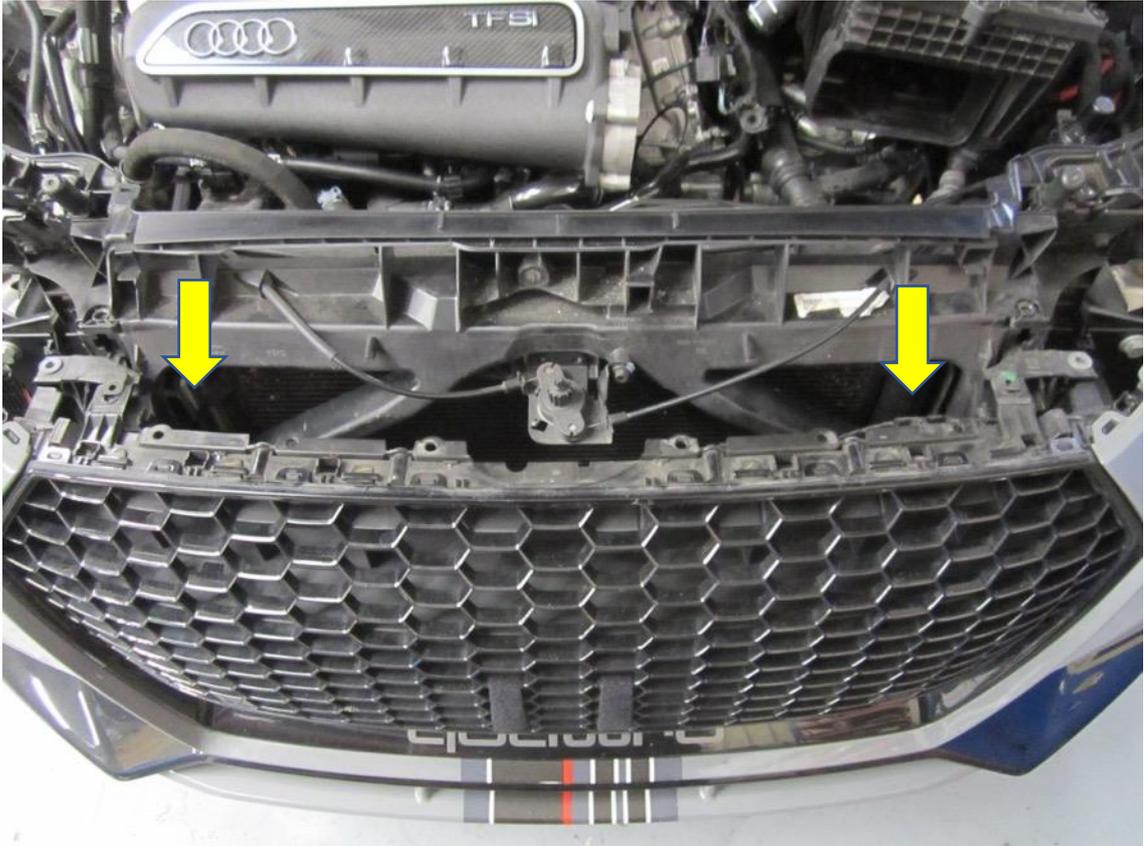
25. The Forge Motorsport intercooler can now be fitted into place.

26. Fit the temp sensor bracket provided along with the temp sensor and re connect the sensor to the loom.

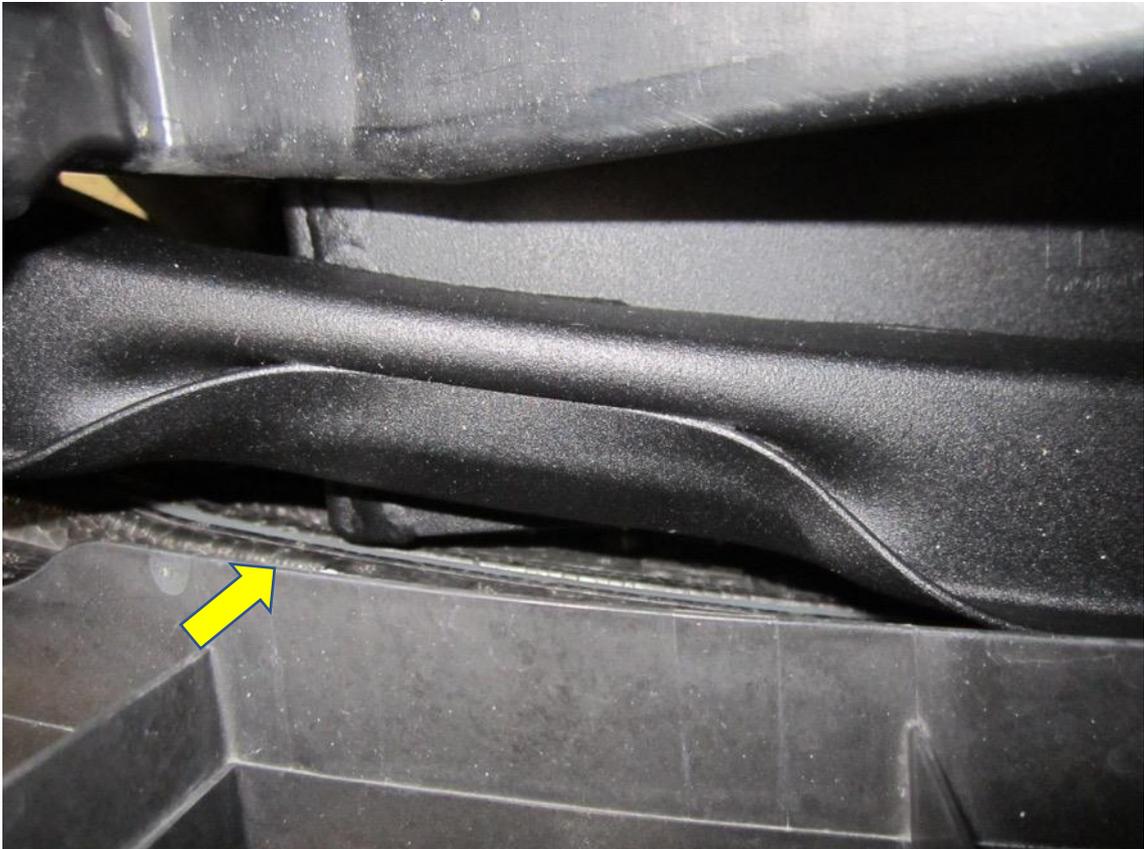


27. Before re fitting the bumper, the foam crash bar absorber that houses the pedestrian protection needs to be slightly modified .

Hold the bumper against the front of the vehicle then looking down in between the bumper and the crash bar, mark on the foam where it touches on the corner of the new intercooler.



28. Mark here on either side of the bumper .

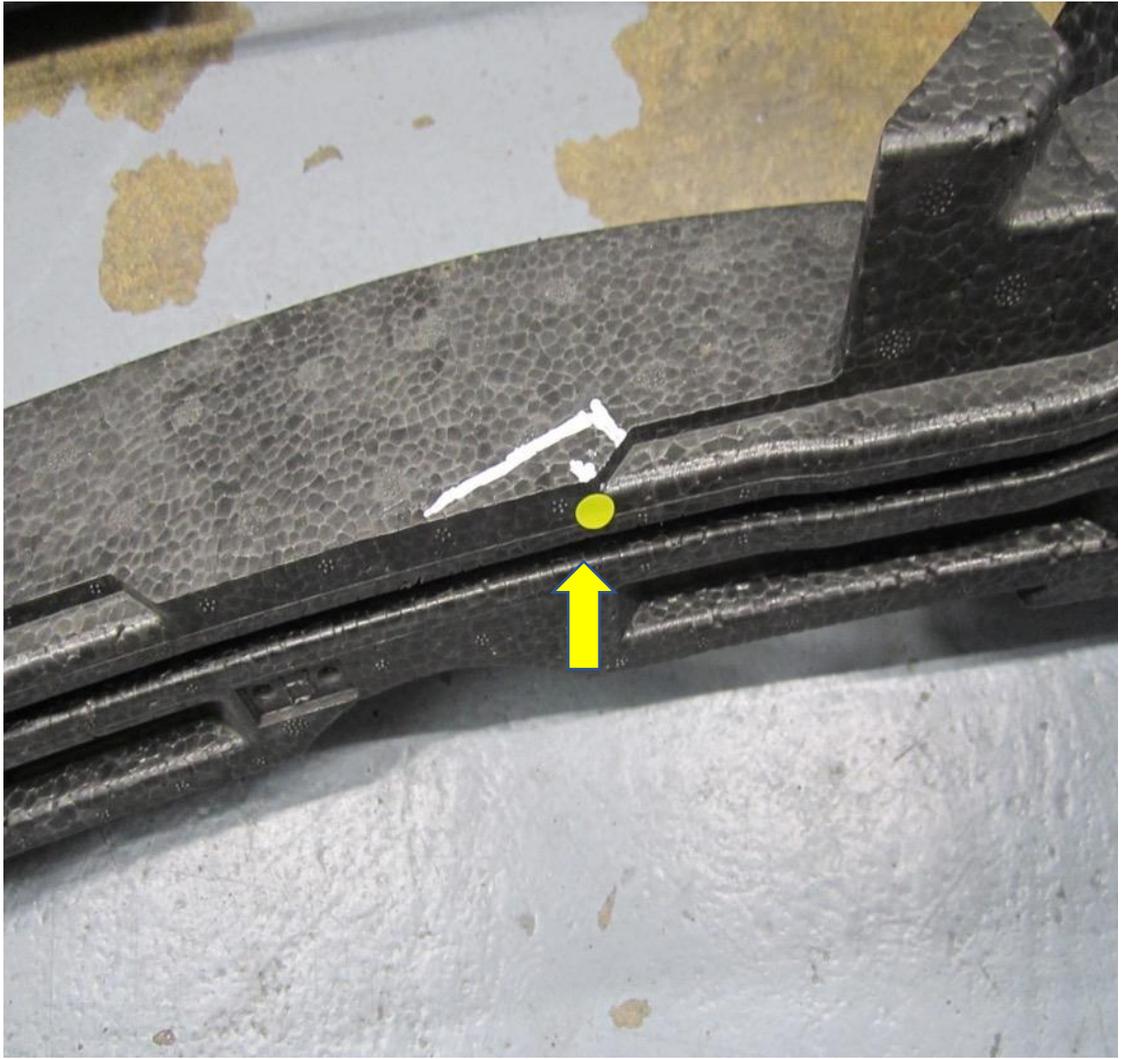




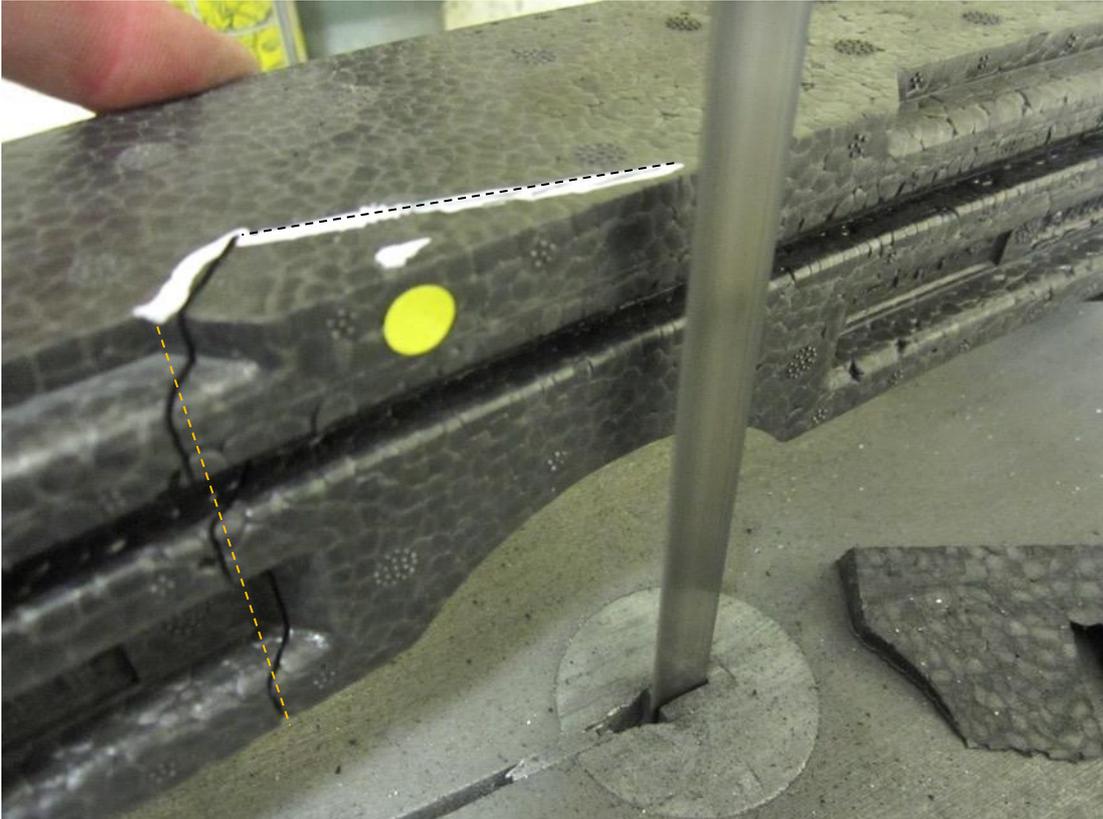
29. Remove the rubber hose from its housing but still leave connected to each sensor on either side of the bumper.



30. Remove the piece of foam from the bumper then fully mark .



31. This section must now be trimmed and removed from the foam insert, this can be done with a bandsaw, hack saw or a grinder .



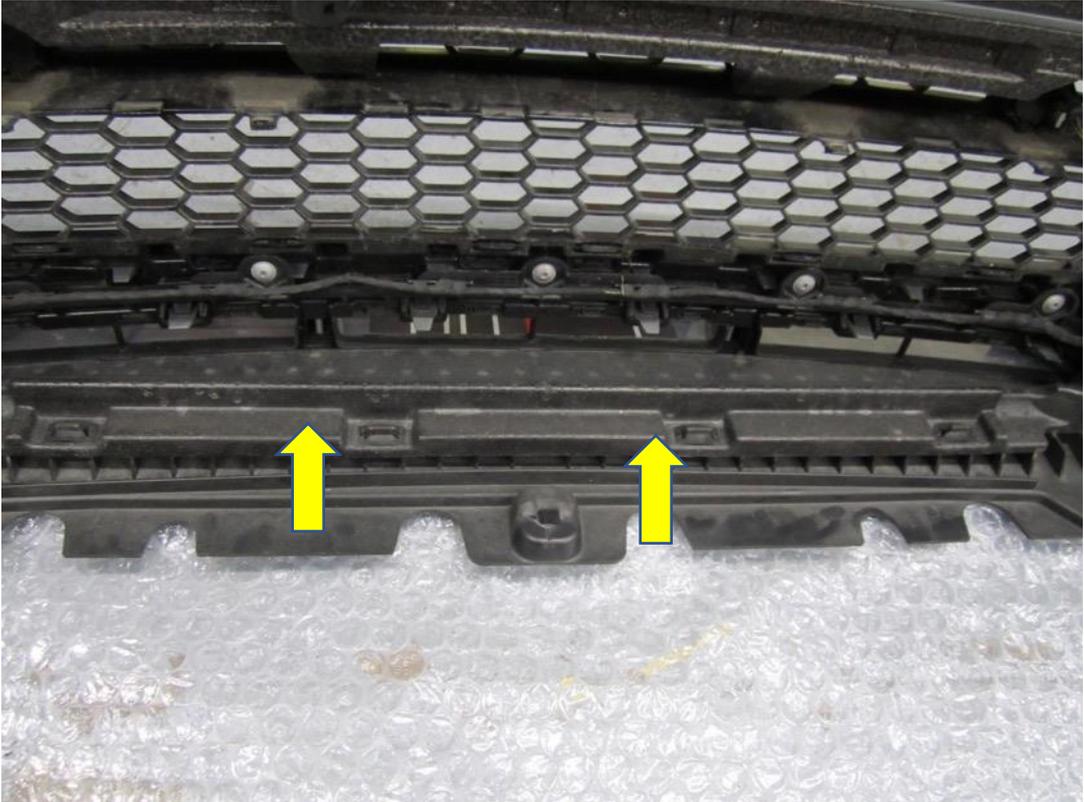
32. Now this section has been removed a channel must be put back into the foam to rehouse the vacuum tube ,this can be done with an angle grinder and grinding disc .



33. Once this has been done the vacuum line can be reinstalled as pictured below.



34. Remove this piece of foam from the lower part of the bumper pictured below.



35. follow steps 1-27 in reverse order to reassemble your vehicle and complete your new Forge Motorsport intercooler install.

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This is a small selection of products available from forge motorsport for the Audi TTRS and RS3

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