



AUDI S3 8V INTERCOOLER FITTING INSTRUCTIONS



Tools Required:

Access to vehicle lift or floor jack and axle stands to support vehicle

T20,T25,T27,T45 Torx Driver

Trim clip remover

Hose clamp drive

Small grinder or cutting disc

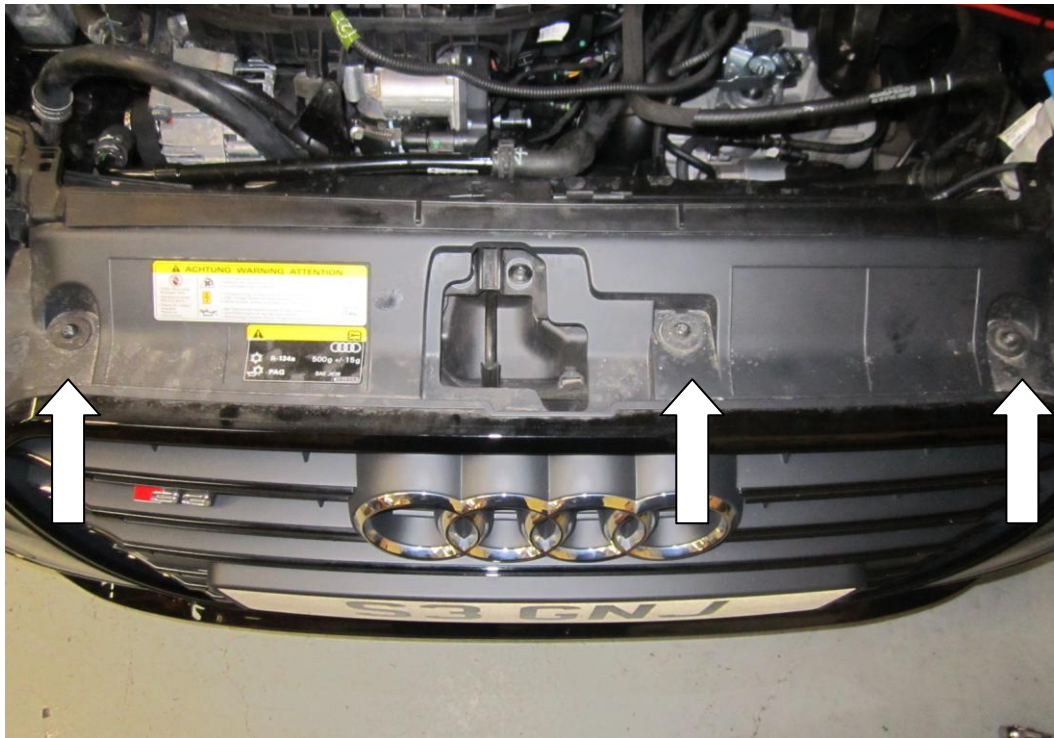
Safety eyewear, footwear, gloves and protective clothing are also recommended.

Please thoroughly read though and familiarize yourself with these fitting 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. This installation may require an air con re gas, the installation process is made easier with the condensor temporarily removed however the intercooler can be installed with the condensor in situ, Forge motorsport accept no liability for any damage or injury occurred in incorrect fitting of this product, Again we strongly recommend removal of the condensor to make this installation easier.

1. Raise the vehicle on a ramp or suitable axle stands then remove your vehicles front wheels.
2. Using your T20 torx drive, remove the two fasteners either side of the duct for your airbox and remove



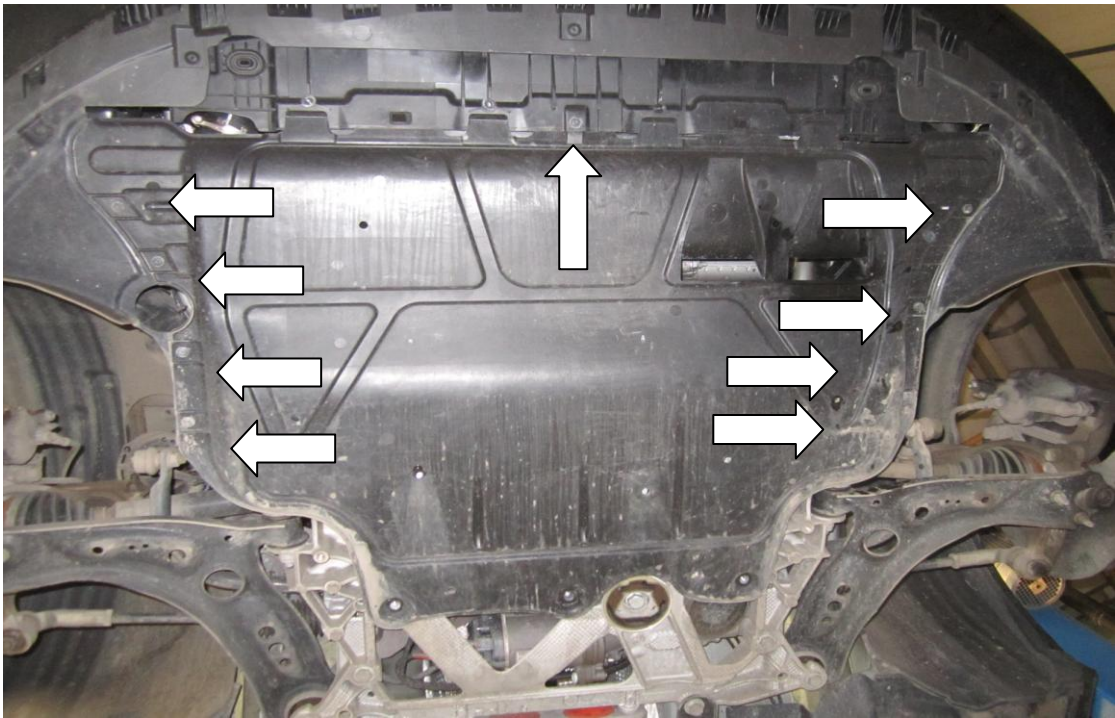
3. Using your T27 torx drive remove the three fasteners arrowed .



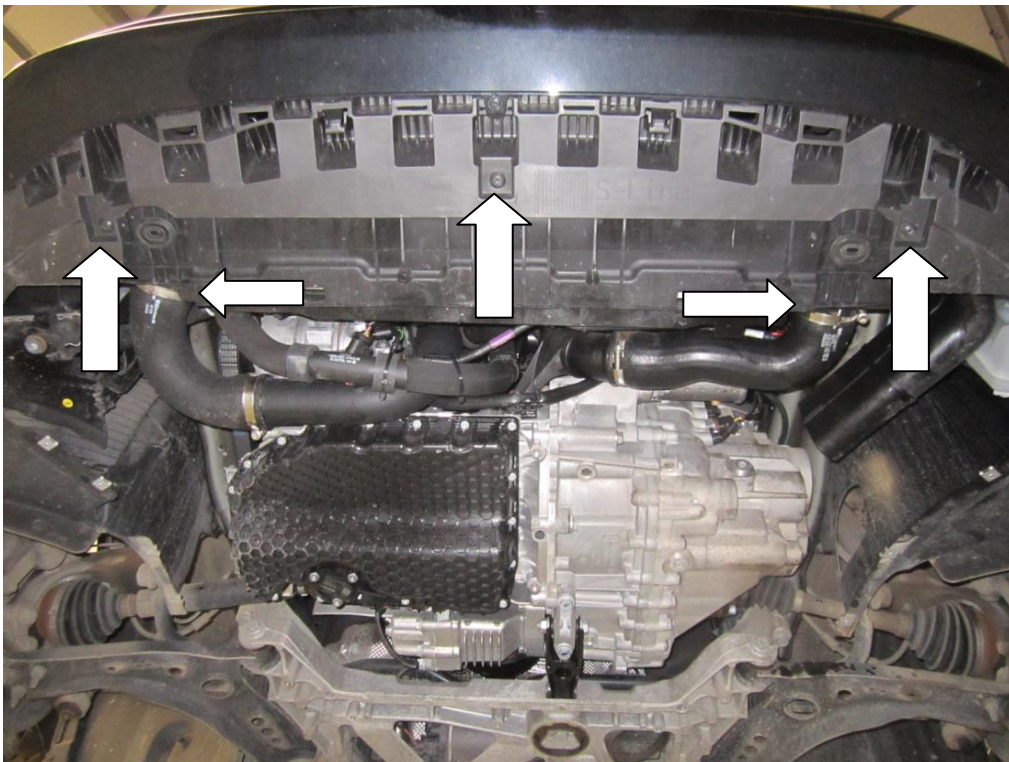
4. Using your T45 torx drive undo the three fasteners at the rear of the under tray .



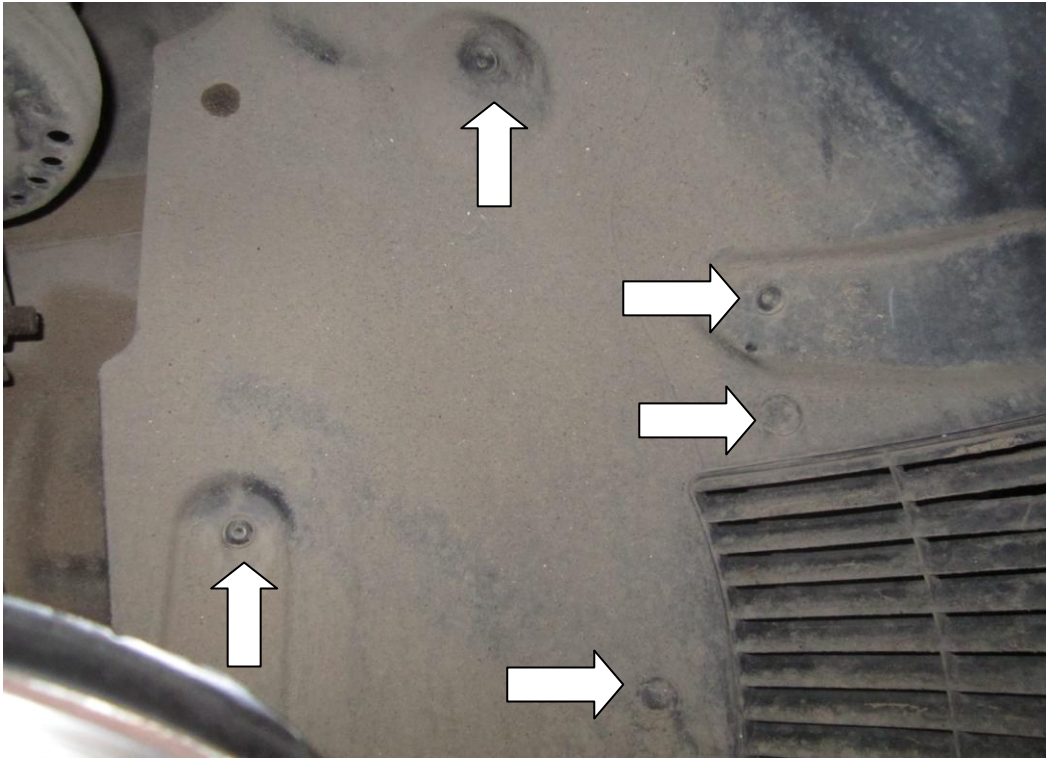
5. Using your T20 torx drive remove the fasteners that hold the sides of the undertray to the lower of the arch liners. Please also remove the T20 fastener in the middle at the front of the undertray. There are nine fasteners in total.



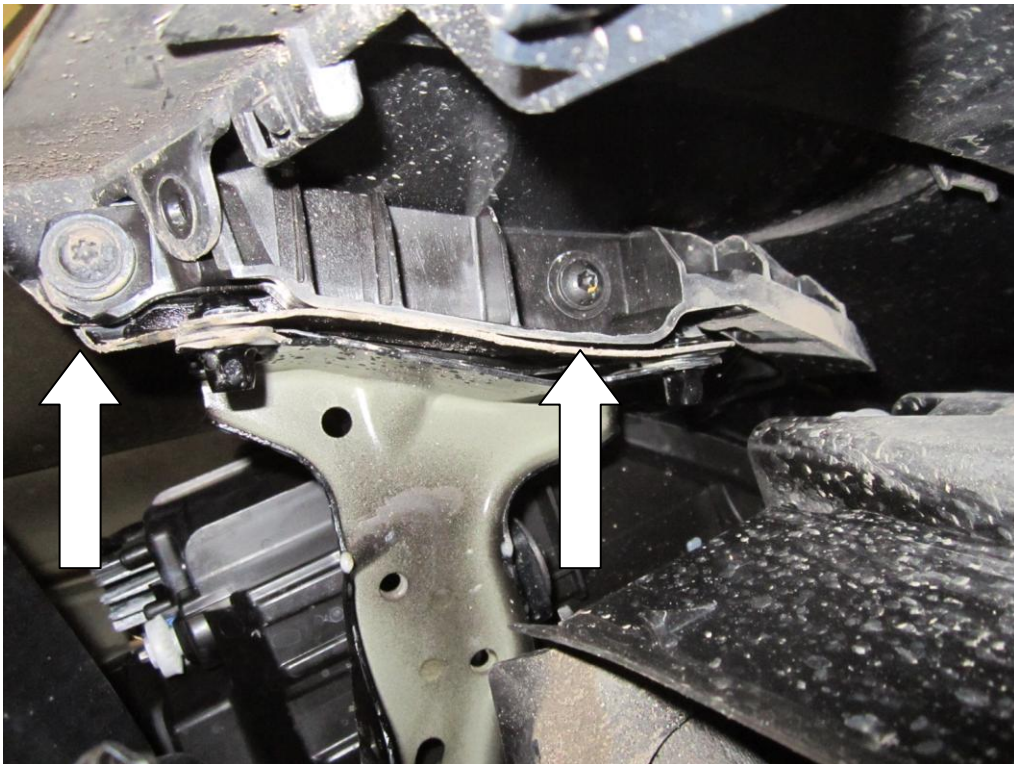
6. Using your T25 torx drive, remove the three fasteners at the front of the bumper underside. While in this position undo the boost hoses with your hose clamp drive.



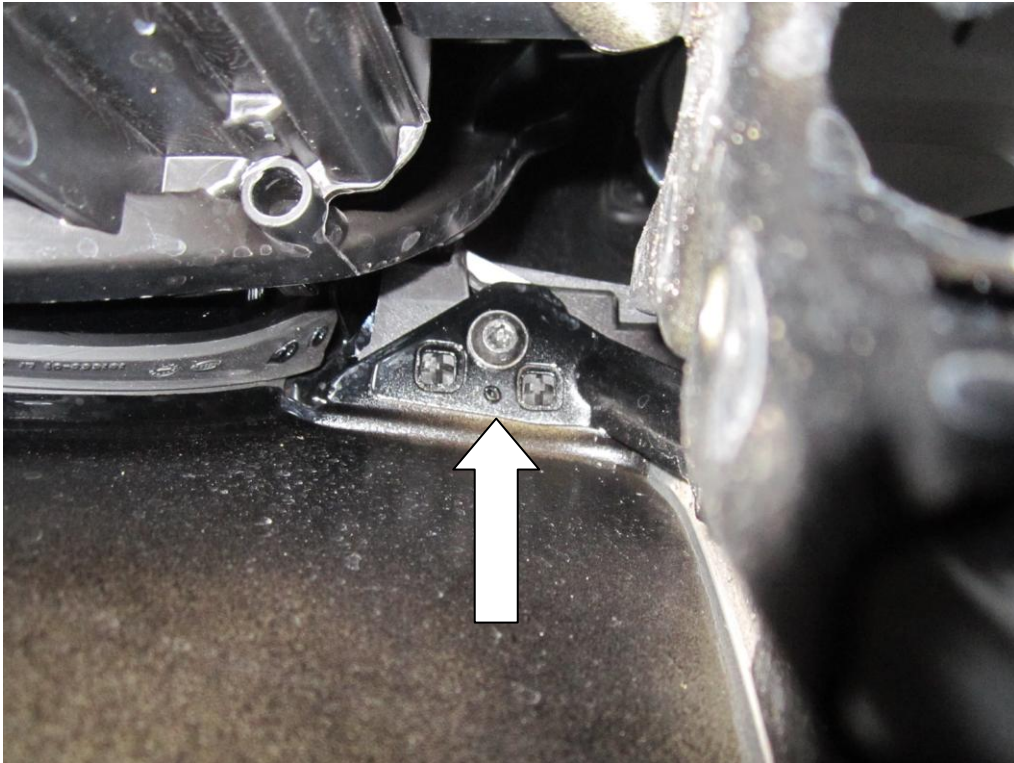
7. Using your T20 torx drive remove the fasteners at the front of your inner arch liners; there are six in total on each inner arch .



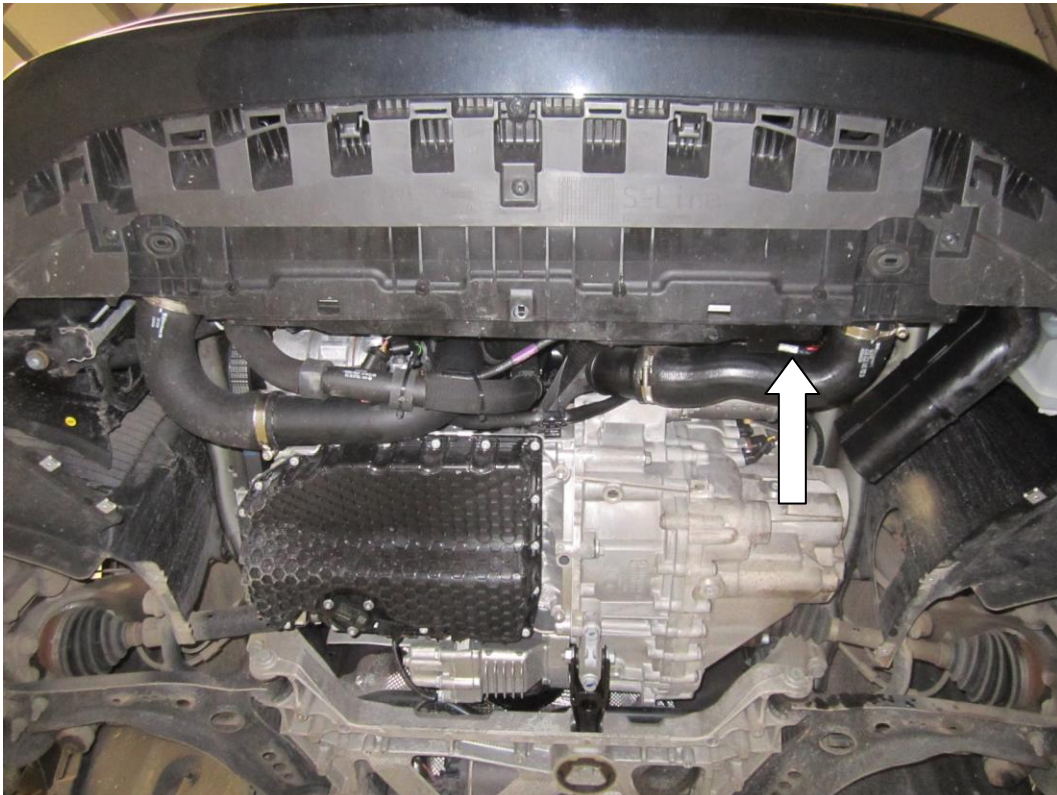
8. Pull back your arch liner then using your T25 torx drive remove the two fasteners pictured.



9. Again using your T25 torx drive remove the fastener that is located where the bumper meets the front of the inner wing. This is located beneath the headlight and can be accessed from the inner arch.



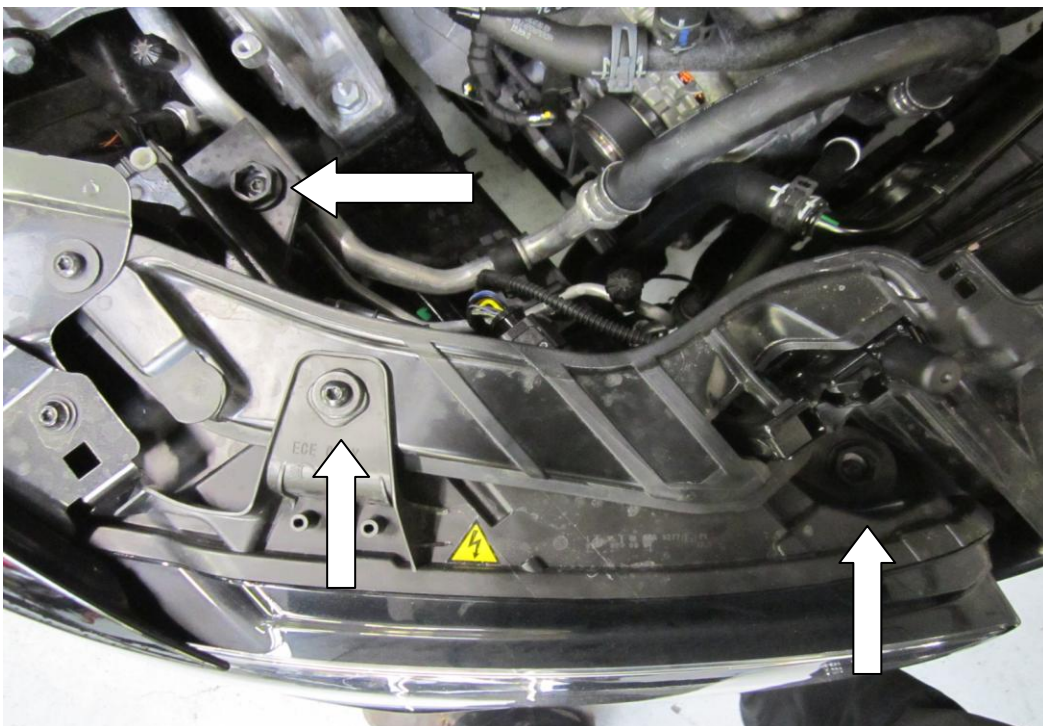
10. Located on the lower of the radiator cowl, disconnect the loom that controls the head light washers on the front bumper.



11. Carefully pull the bumper on each side where it meets the front wings and your bumper will now be able to be removed.
12. Disconnect the loom on each headlight.



13. Using your T27 driver remove the four fasteners that hold your headlights in place (the fourth fastener is located under the headlight), then carefully remove your headlights.



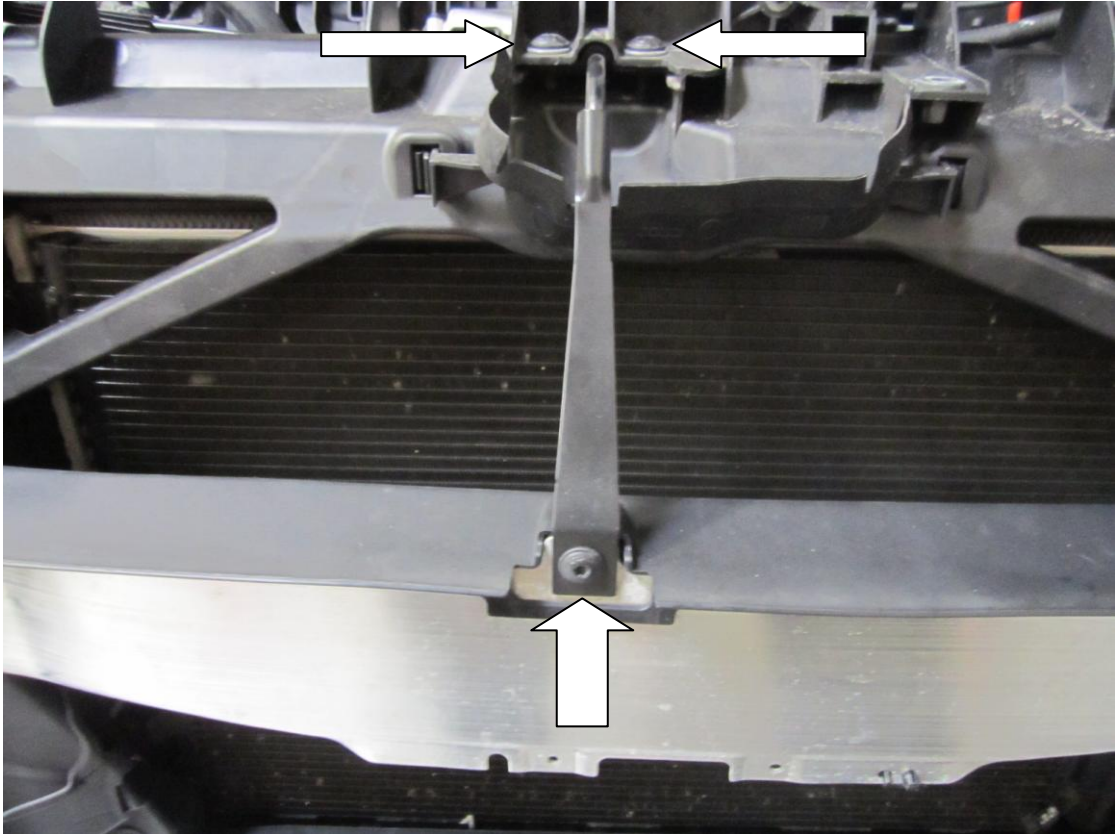
14. You may now disconnect the wiring loom to the horns; they are located either side of the crash bar.



15. Using your trim clip remover remove the clip that holds the washer bottle in place, then remove the filler neck.



16. Using your T27 driver, remove the fasteners that hold the front crash bar lock bracket in place and remove.

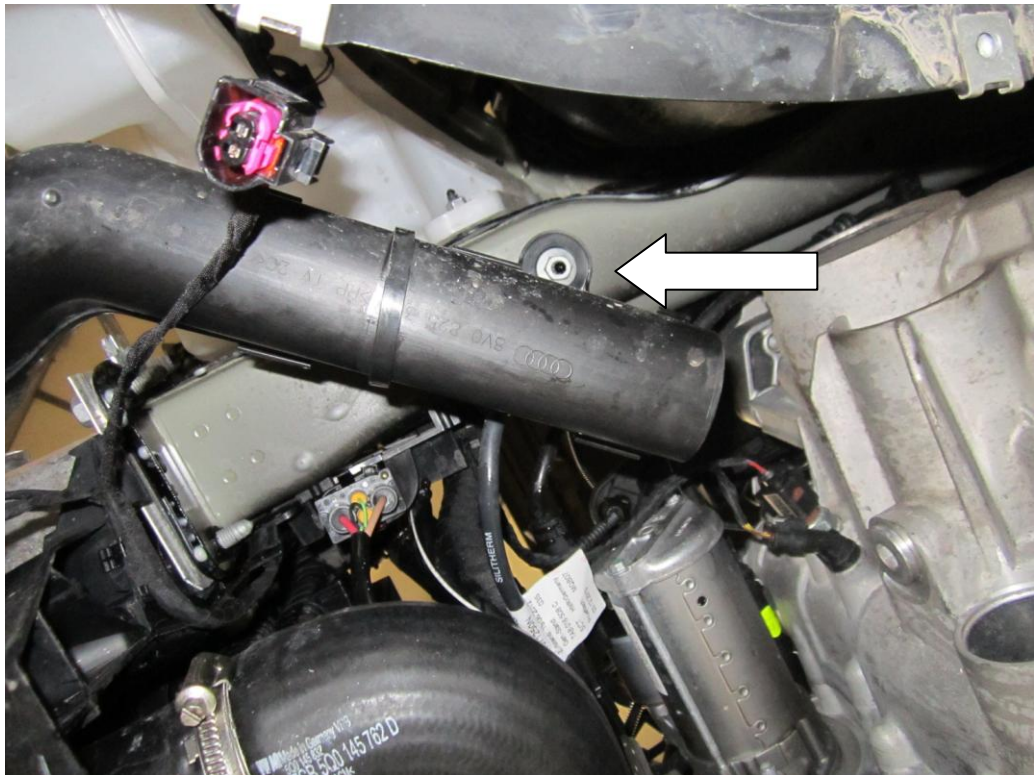


17. Disconnect the loom that connects to the bonnet latch sensor. This is located towards the middle of the plastic cowling beneath where the duct sat to the airbox.

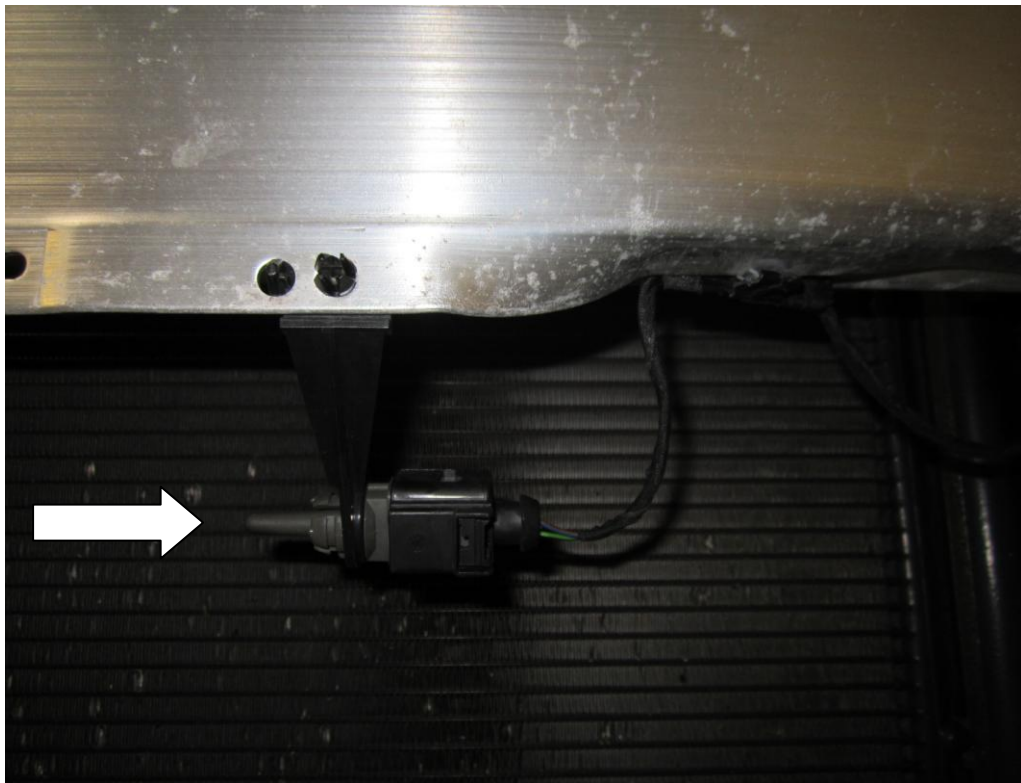


18. Remove the gearbox cooling duct using your T27 torx drive and 13mm spanner.

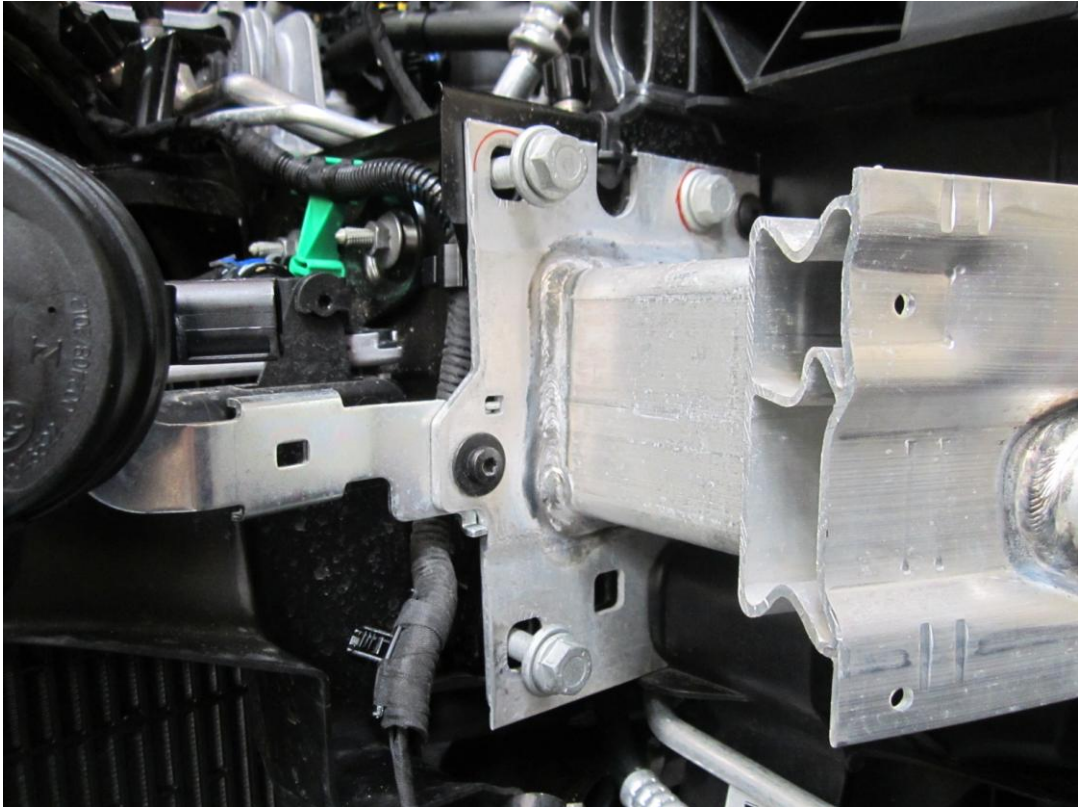




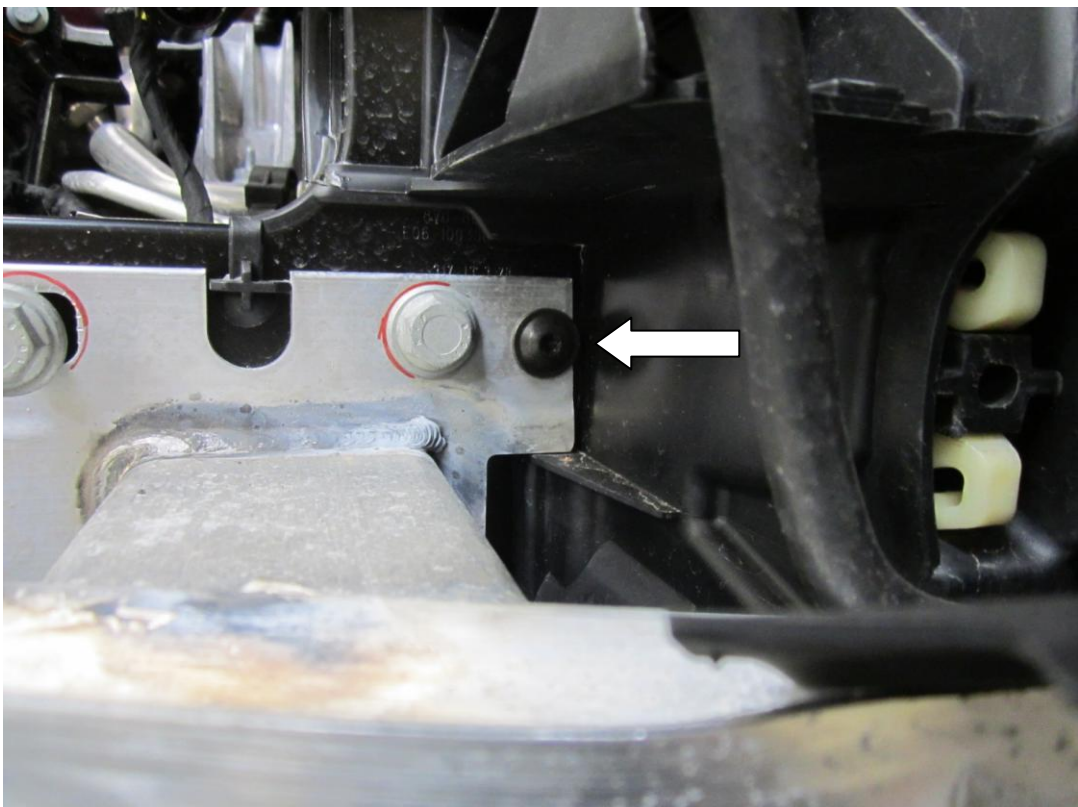
19. Disconnect the air temp sensor on the lower side of the crash bar



20. Now mark around the 17mm bolts that hold your crash bar into position. This will help to locate the crash bar upon reinstallation.



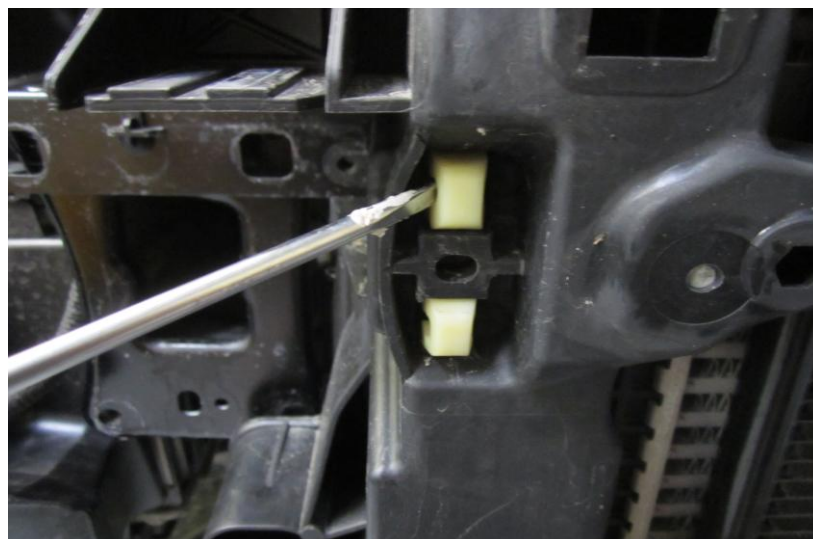
21. Using your T27 torx driver, remove the fastener next to the 17mm bolts.



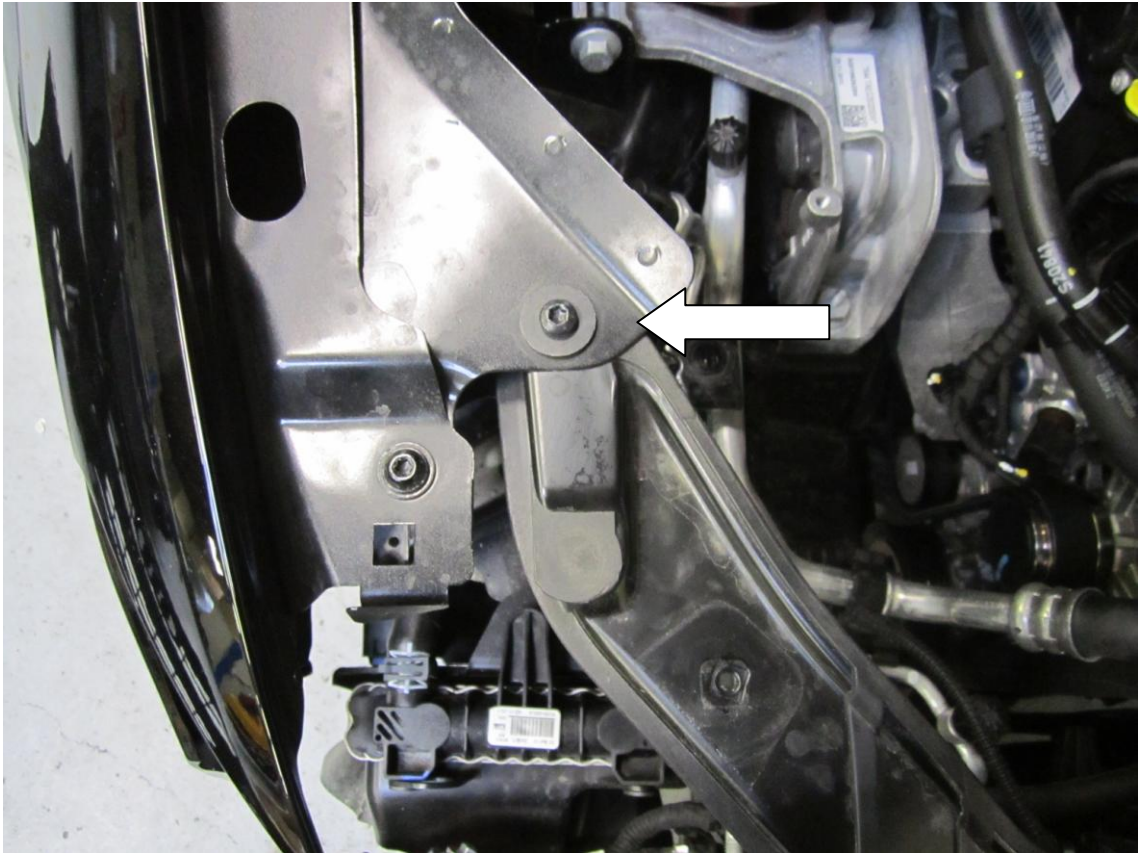
22. Use a jack support under the radiator cowl before removing the 17mm bolts that hold your crash bar in position.
23. Now your crash bar is removed you can remove the plastic ducting either side of your plastic radiator cowl, simply push the clips arrowed to remove.



24. Now remove the large white brackets that hold the radiator pack into the cowl. These often break but don't worry, new brackets are supplied with your new intercooler.



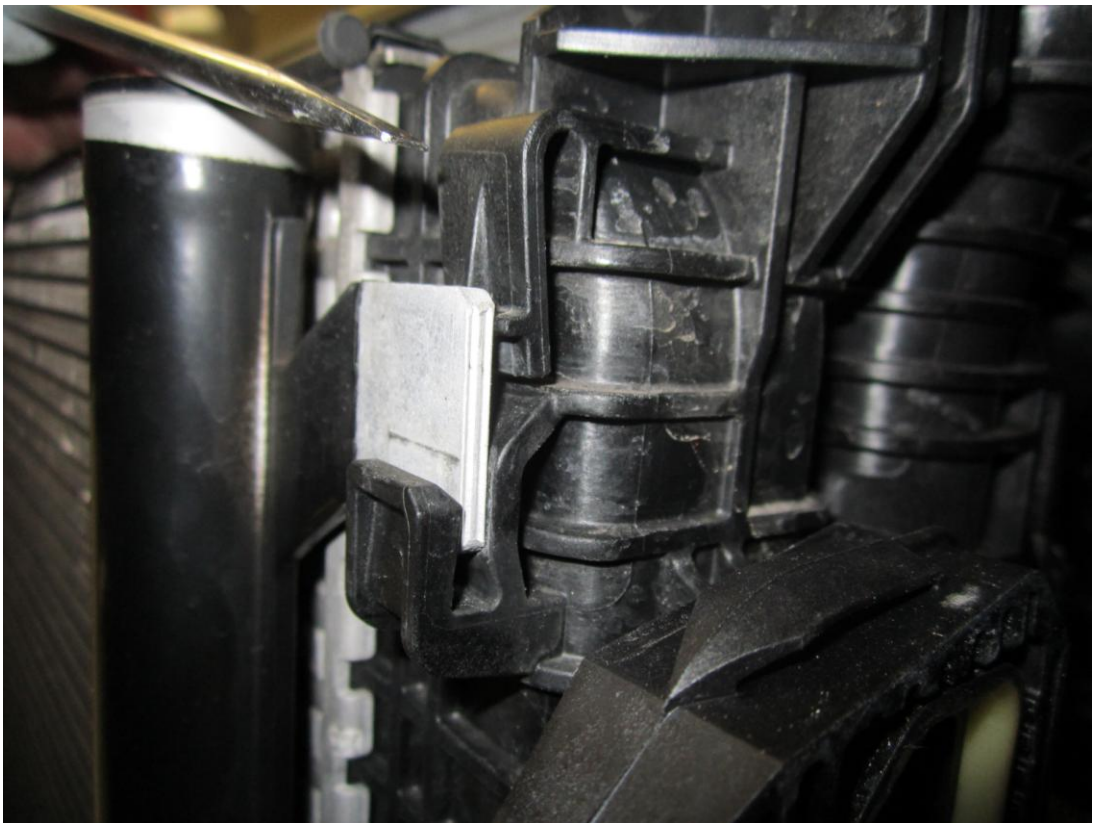
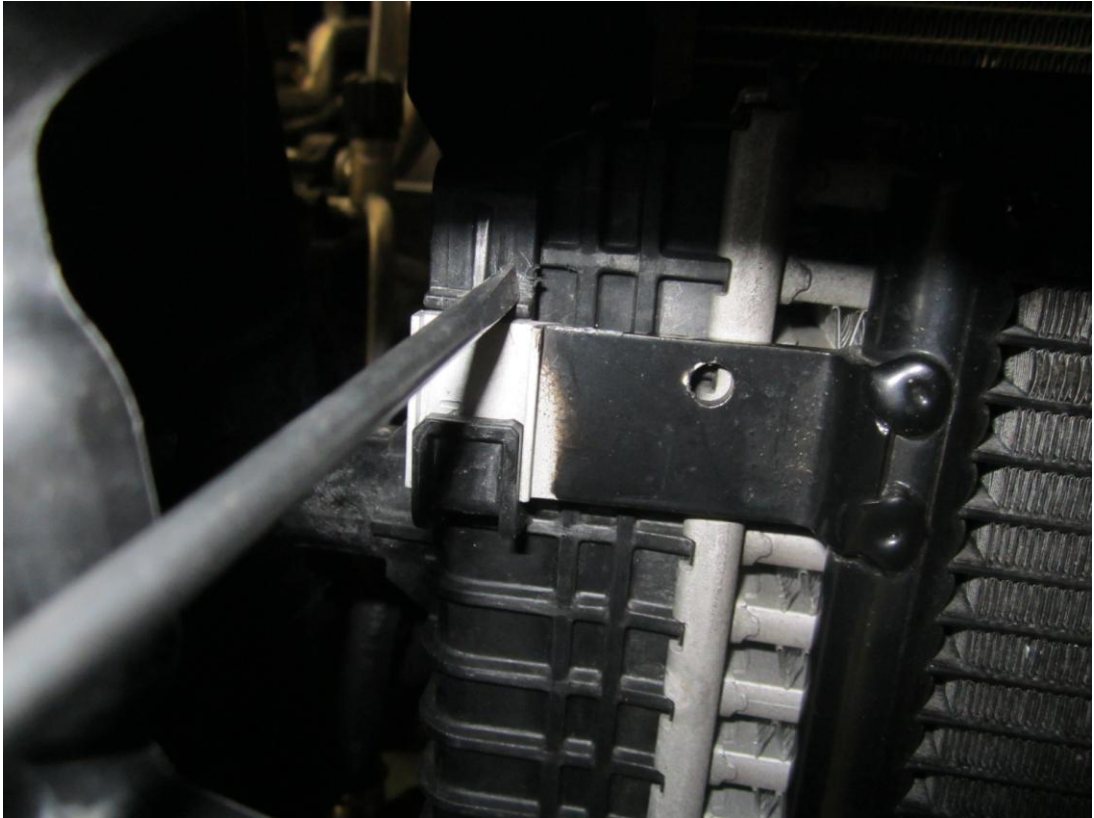
25. Using your T27 torx drive, remove the last two fasteners holding the radiator cowl into place. These are located next to where the lights were located.



26. Now pull the plastic cowl forward on your jack, and tilt the radiator pack away from you to remove the plastic ducting either side of your condenser.



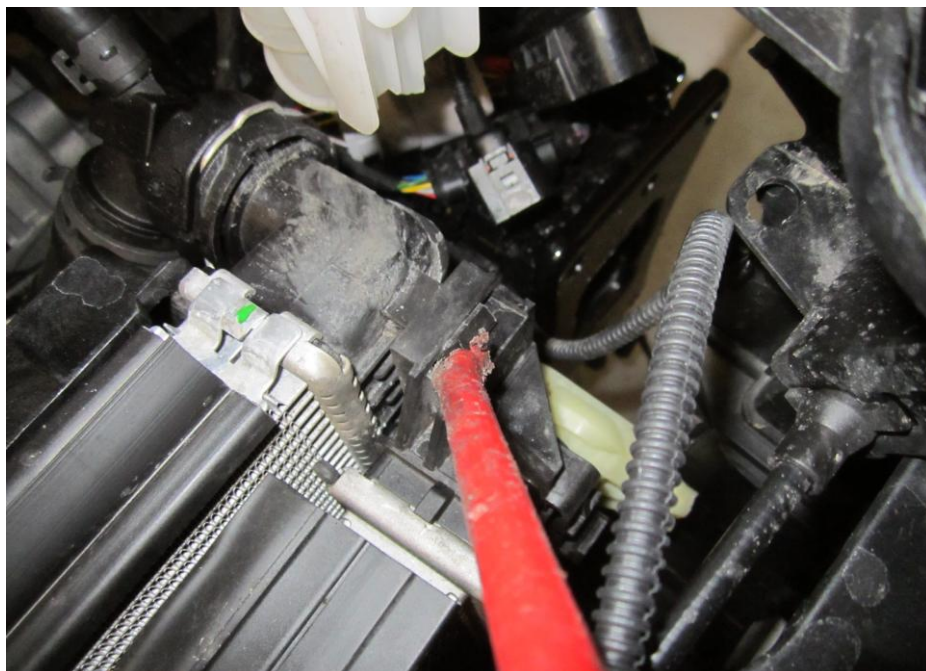
27. Using a flat bladed screwdriver, push the clips on the intercooler to release the condensor. This will need to be slid upwards while pushing the two upper clips.



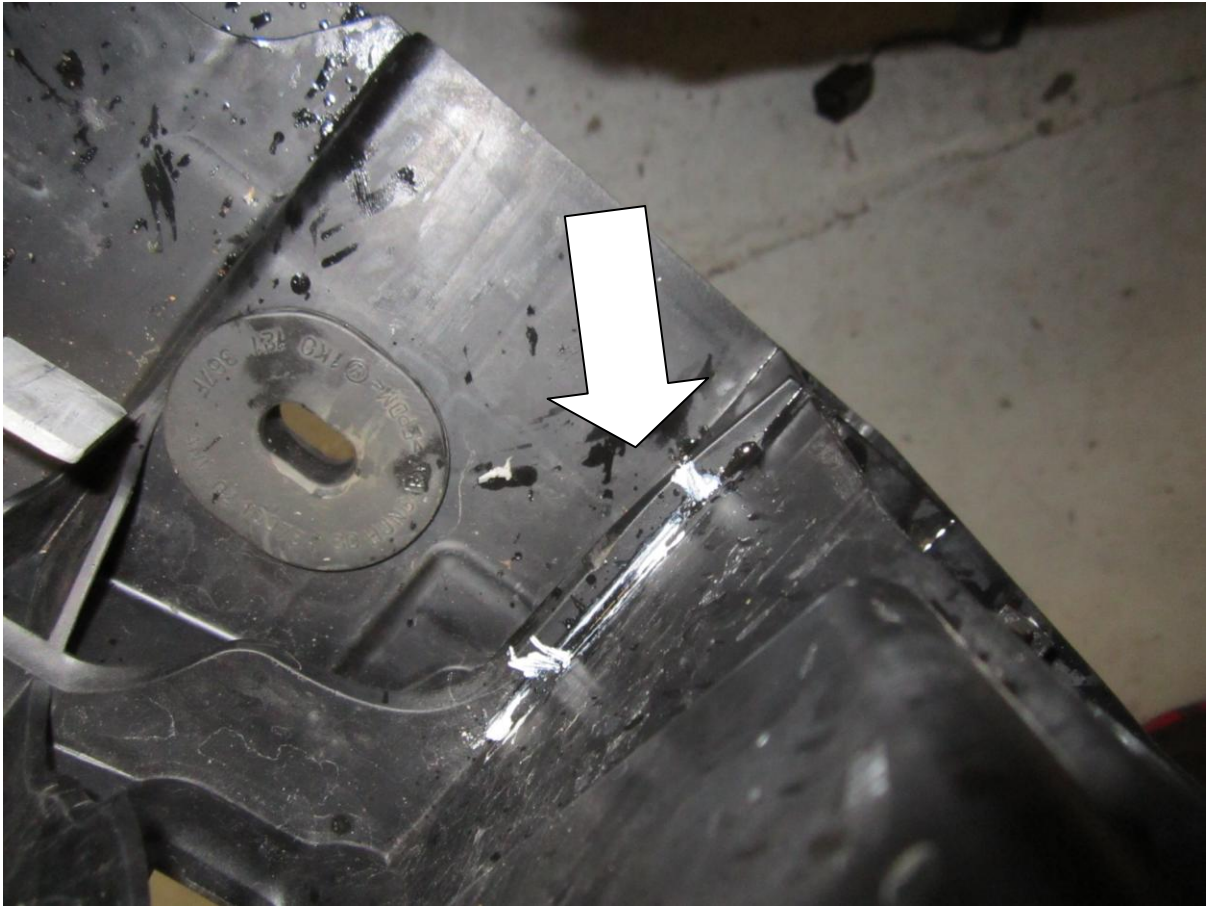
28. With the condensor loose pull the intercooler and radiator out of the plastic cowling. It is held in on two pins that locate in the bottom of the plastic radiator housing. This is easier with two people! Rest the radiator and intercooler on the jack and pull the cowling to one side. It cant be removed as the air con pipework threads through it. Take **caution** so as to not damage your air conditioning pipework to the condensor.



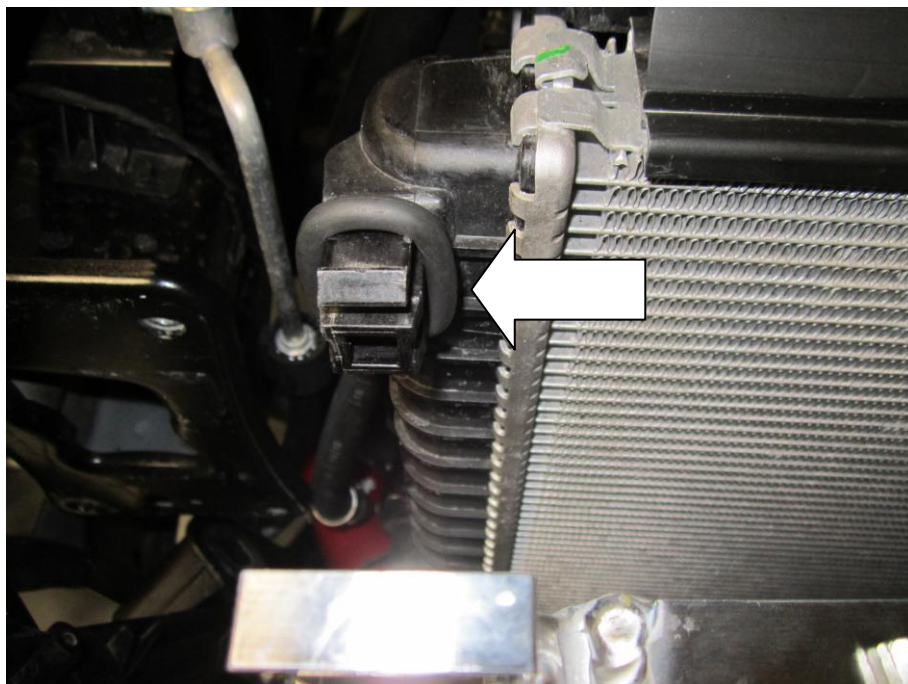
29. Using a flat bladed screwdriver, push down on the tabs holding the radiator to the intercooler. Push the radiator away from you while the tabs are depressed.



30. With the intercooler removed you need to trim the plastic cowl where the new intercooler sits. This can be done with a dremel, sharp knife or similar.



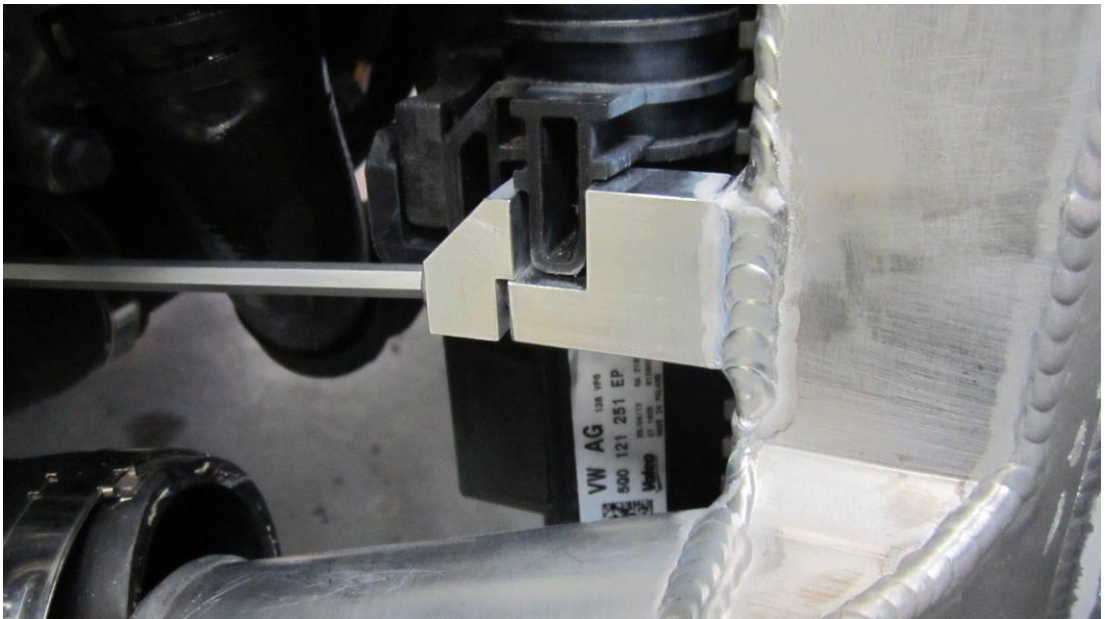
31. Once this is trimmed, place the rubber o-rings provided over the tabs on your existing radiator.



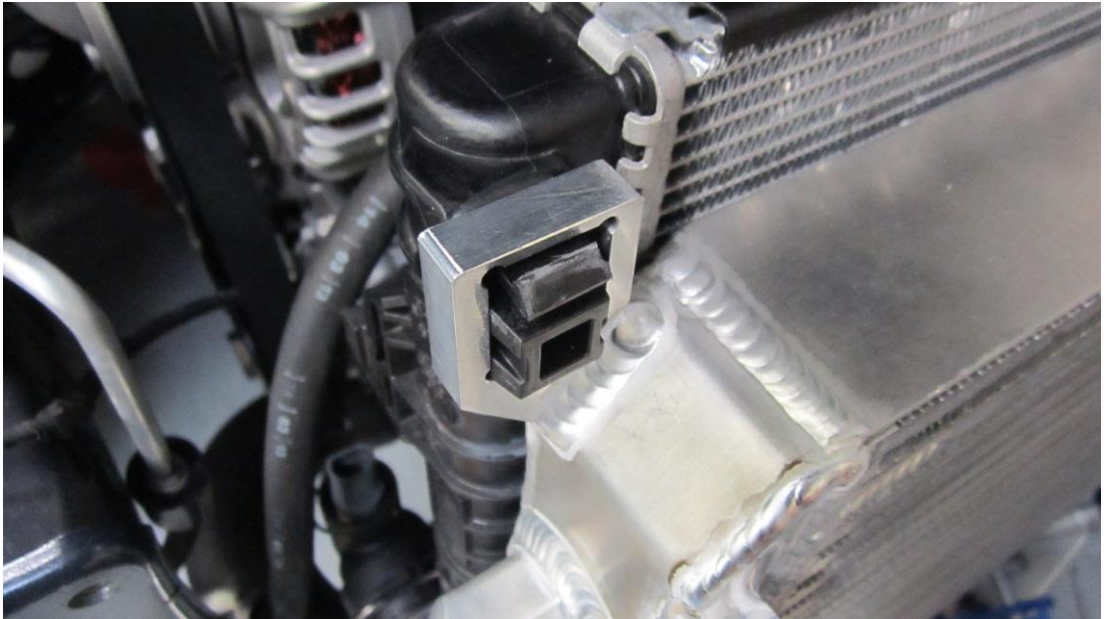
32. Loosen but don't remove the lower brackets on your new intercooler using a 6mm allen key.



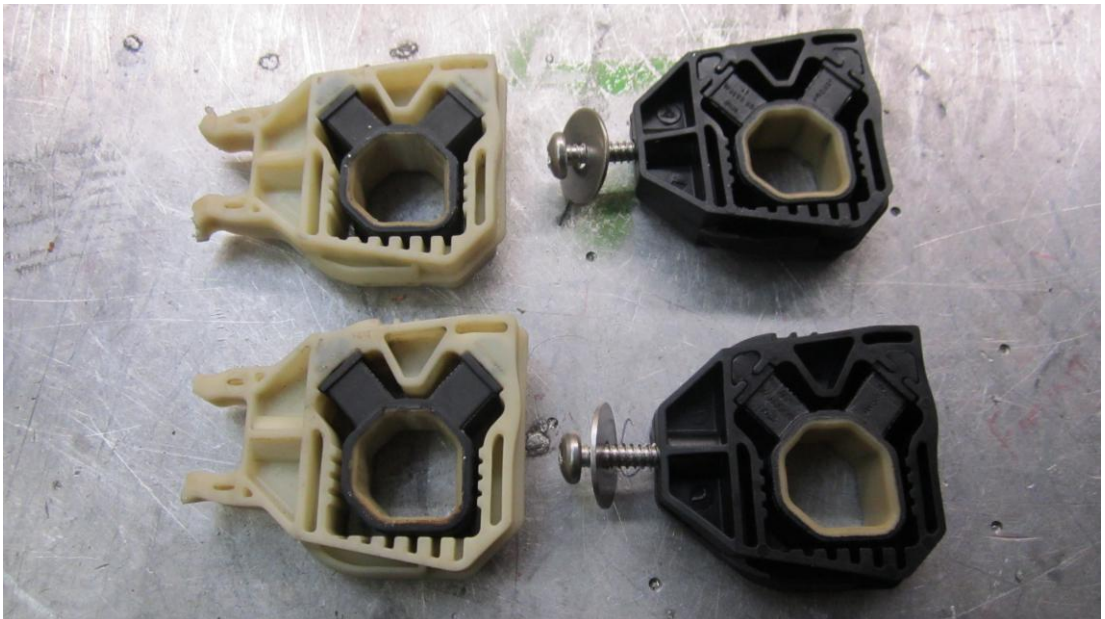
33. Place the intercooler into position then place the radiator onto the brackets on the intercooler. Use a 6mm allen key to tighten.



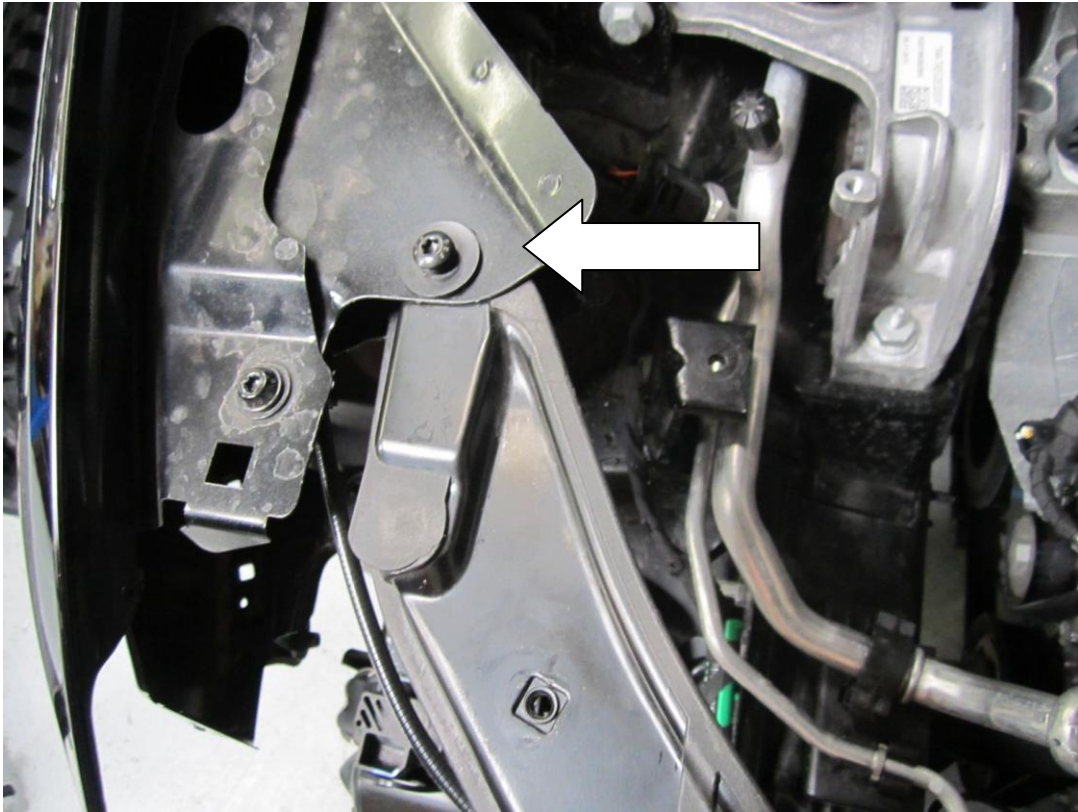
34. Pull the top of the radiator towards you and locate the top tabs of the radiator into position .



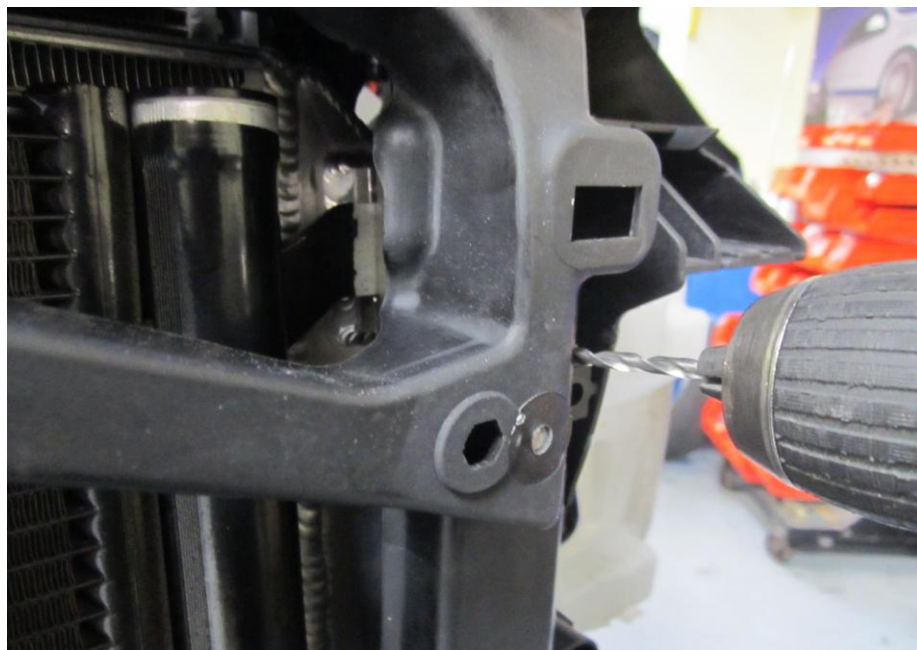
35. Place the new black plastic brackets on your intercooler to replace the old brackets. They only fit one way up. Two screws and washers are provided to hold these in position. Keep the screws to hand to use shortly.

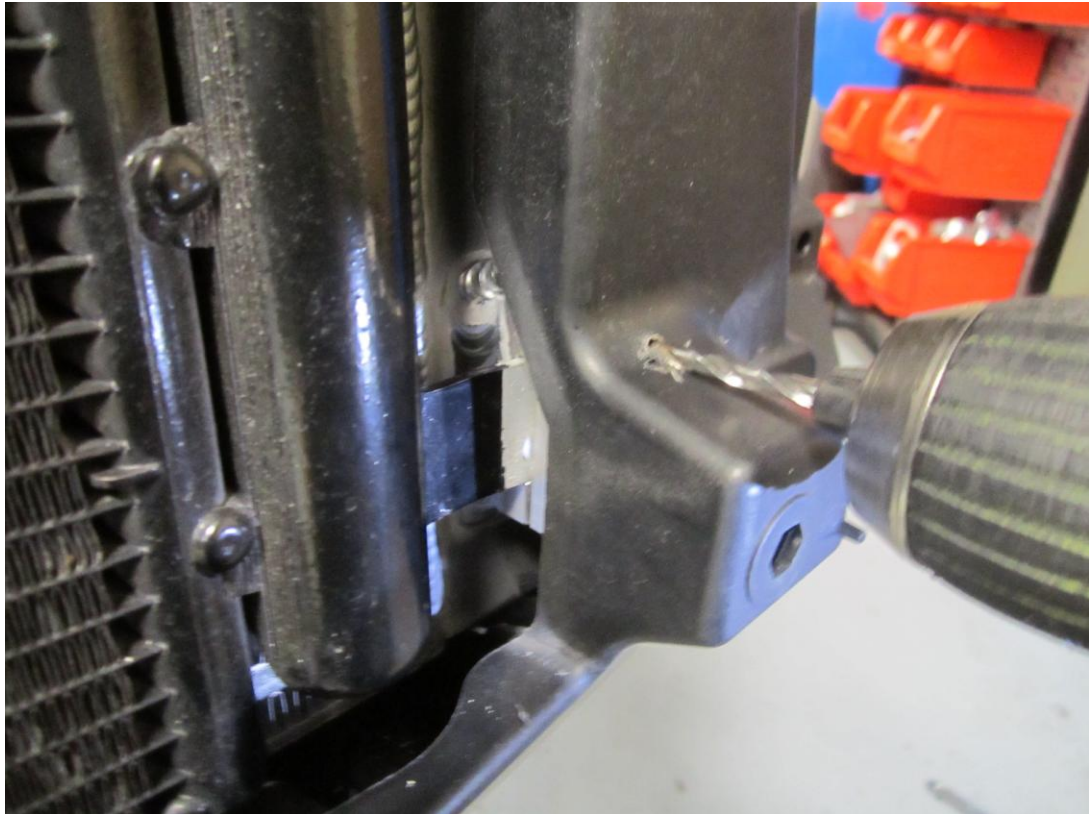


36. Place the radiator back into the plastic cowling and replace the two torx bolts either side of the cowling to hold the radiator pack in position.



37. Place the condensor onto the intercooler brackets. In order to clamp the condensor to the intercooler without having to disconnect and regas your aircon, two small holes must be drilled in the plastic cowling. Mark a position inline with the clamps on your plastic cowling. Using a 5mm drill bit, drill the holes to allow access with an allen key to do up the clamps .

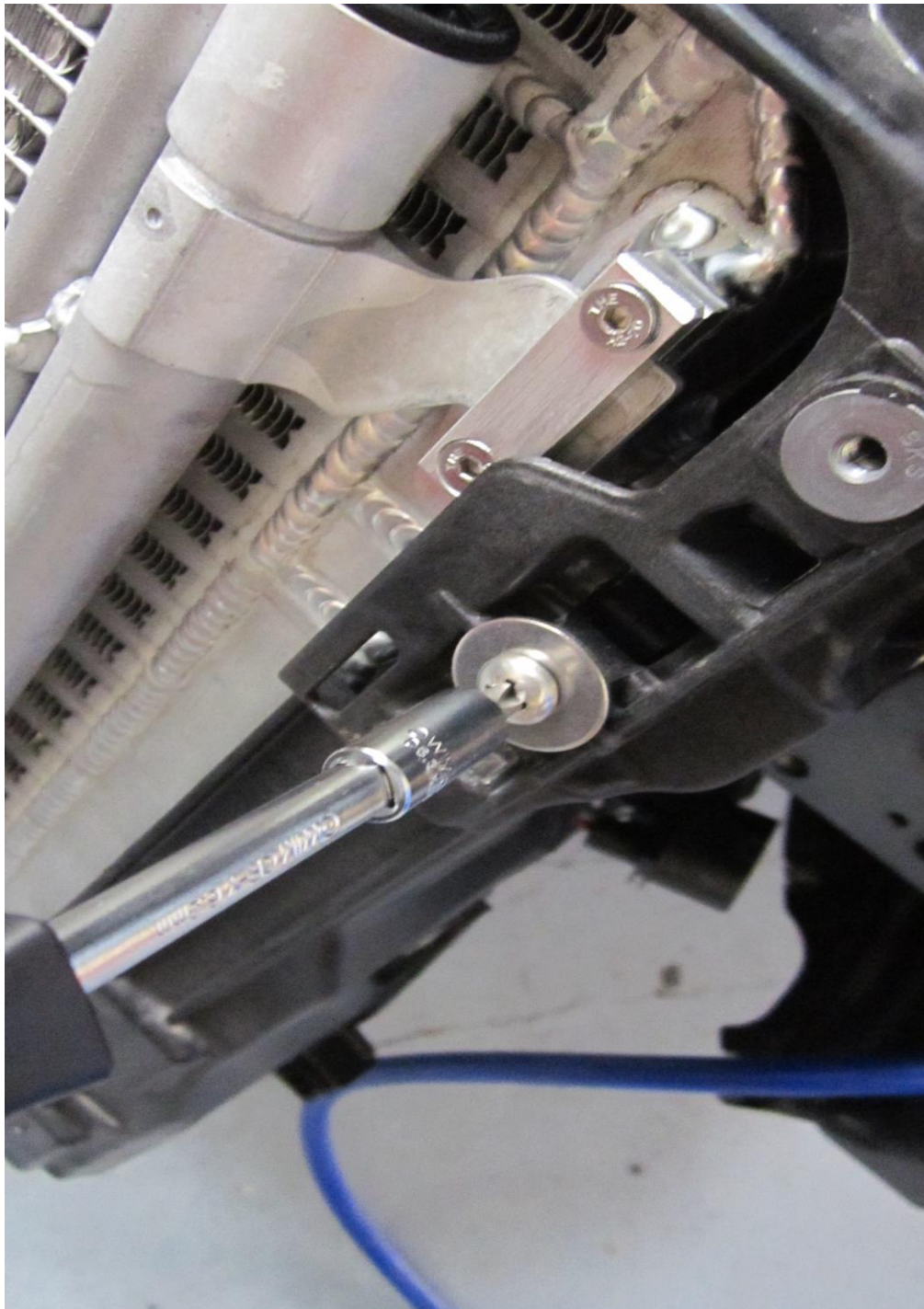




38. The fasteners on the left hand side of the cowling (when viewed from the front of the vehicle) need no holes as these can be tightened using existing access and a ball ended 3mm allen key.



39. The lower left hand side clamp can be left as the cowling itself will hold this in position when re installed .
40. Pull the radiator intercooler and condensor fully into the plastic cowling .There is a hole in the centre of where your old plastic bracket sat. Using the two screws provided, screw into the new brackets on your intercooler and tighten both sides .



41. Your new intercooler is now sat in position. Follow steps 1-29 in reverse order to reassemble your vehicle. Your installation should now be complete. Enjoy your new found performance!

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