



## AUDI RS7 2014- CHARGE COOLER RADIATOR INSTALLATION



**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 Required:**

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

Hose clamp driver

Hose clip remover

T25, T27, T30 Torx Drivers.

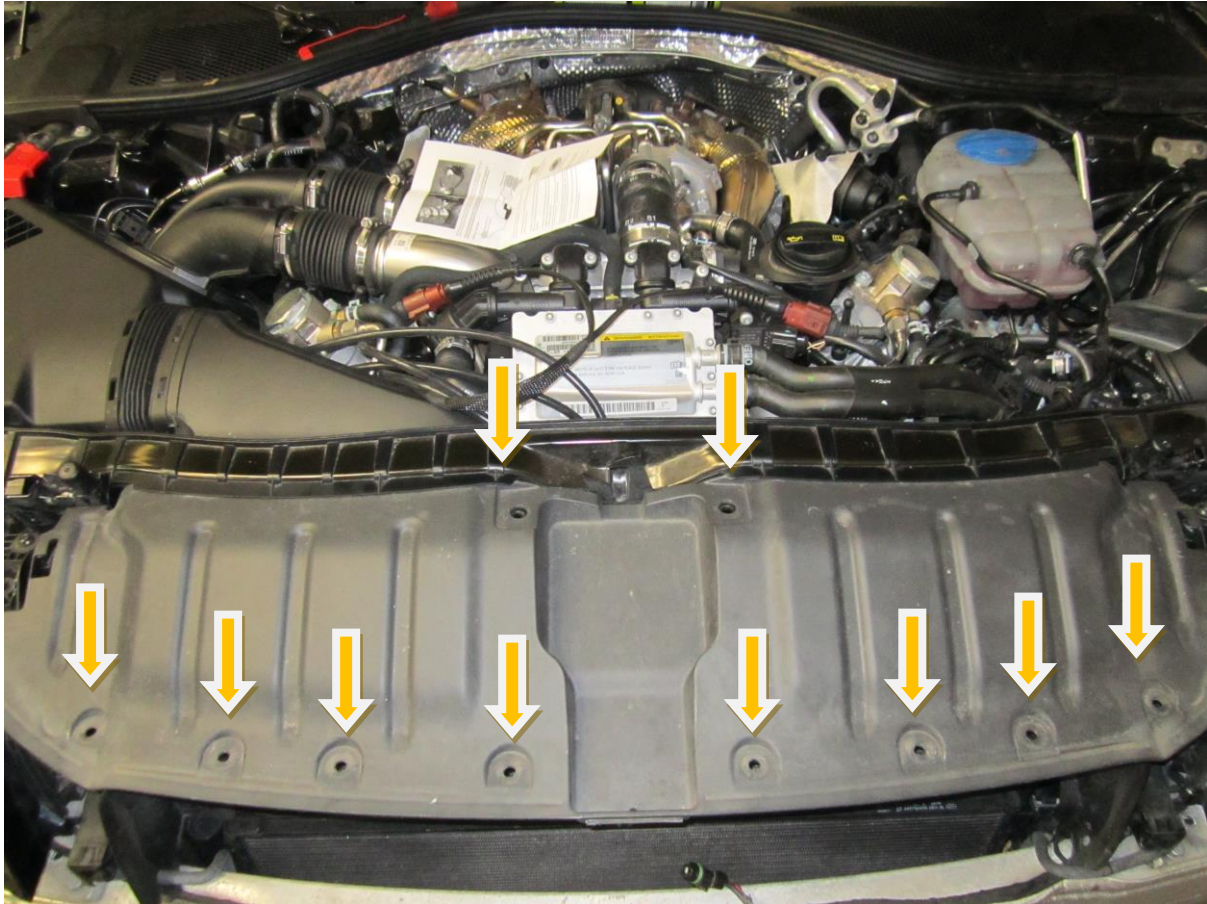
10mm, 13mm Socket, extension bar and Ratchet.

13mm spanner

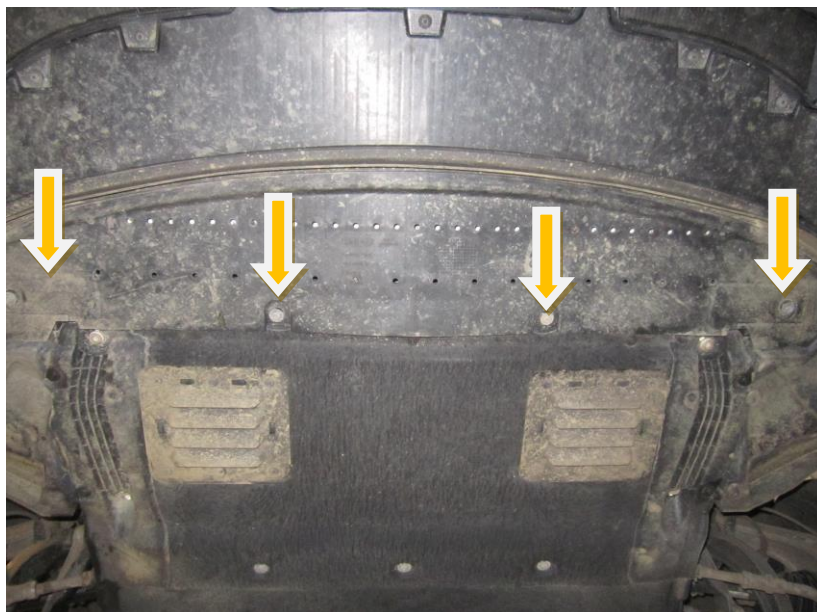
40mm Hole saw

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

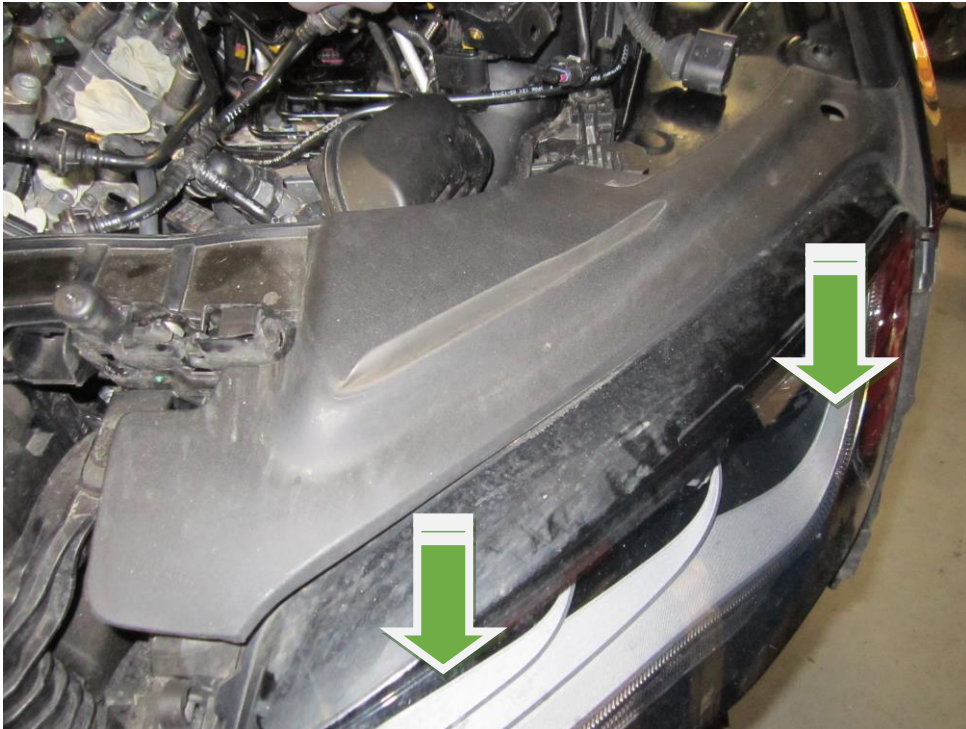
1. Loosen your vehicle wheel bolts using a 17mm socket and wheel brace then raise your vehicle using a car lift and remove the front wheels fully.
2. Using a trim tool, remove the 8 trim clips that hold the plastic slam panel in place, now pull the slam panel towards you and remove fully.



3. Using a T30 Torx drive remove the 4 Torx fasteners that hold the undertray in place .



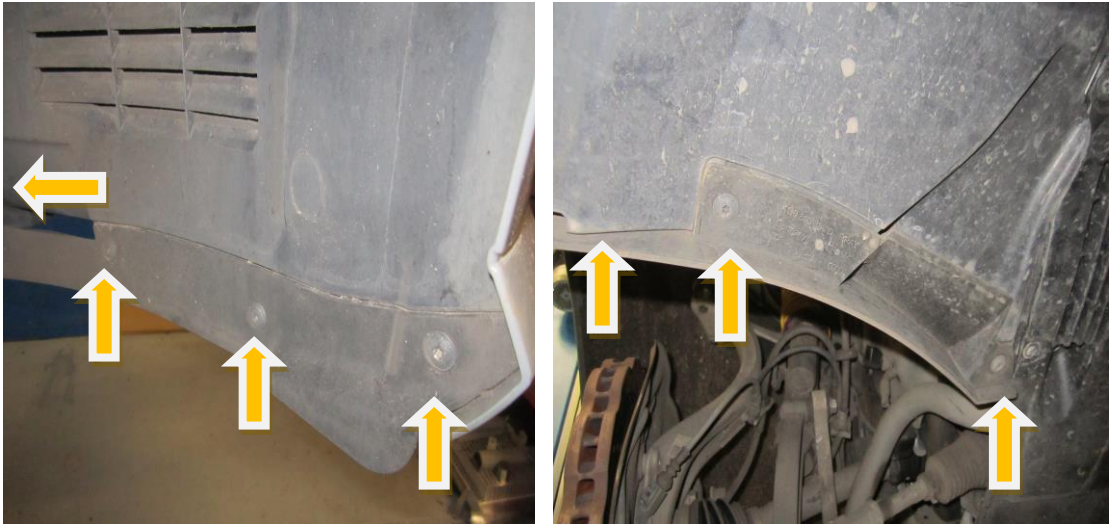
4. Remove the plastic trim from above your headlights by sliding the cover towards you.



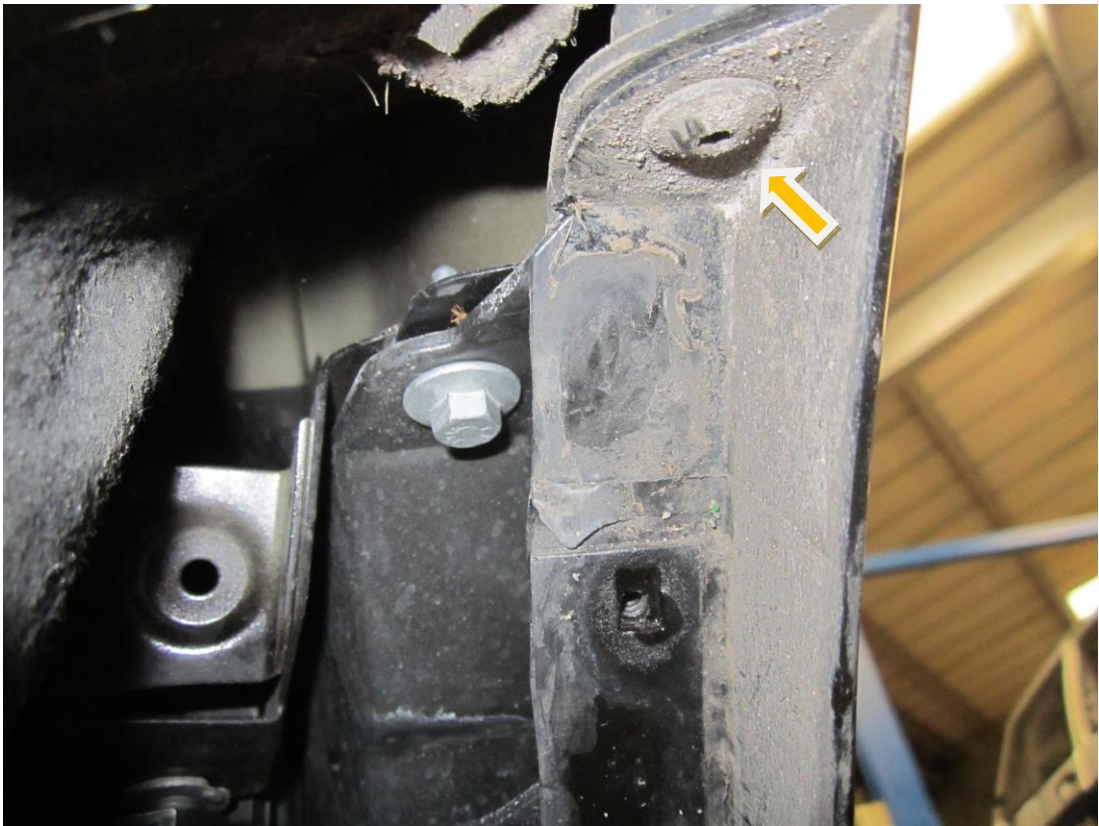
5. Now remove the 4 Torx fasteners within your wheel arch using a T25 Torx drive.



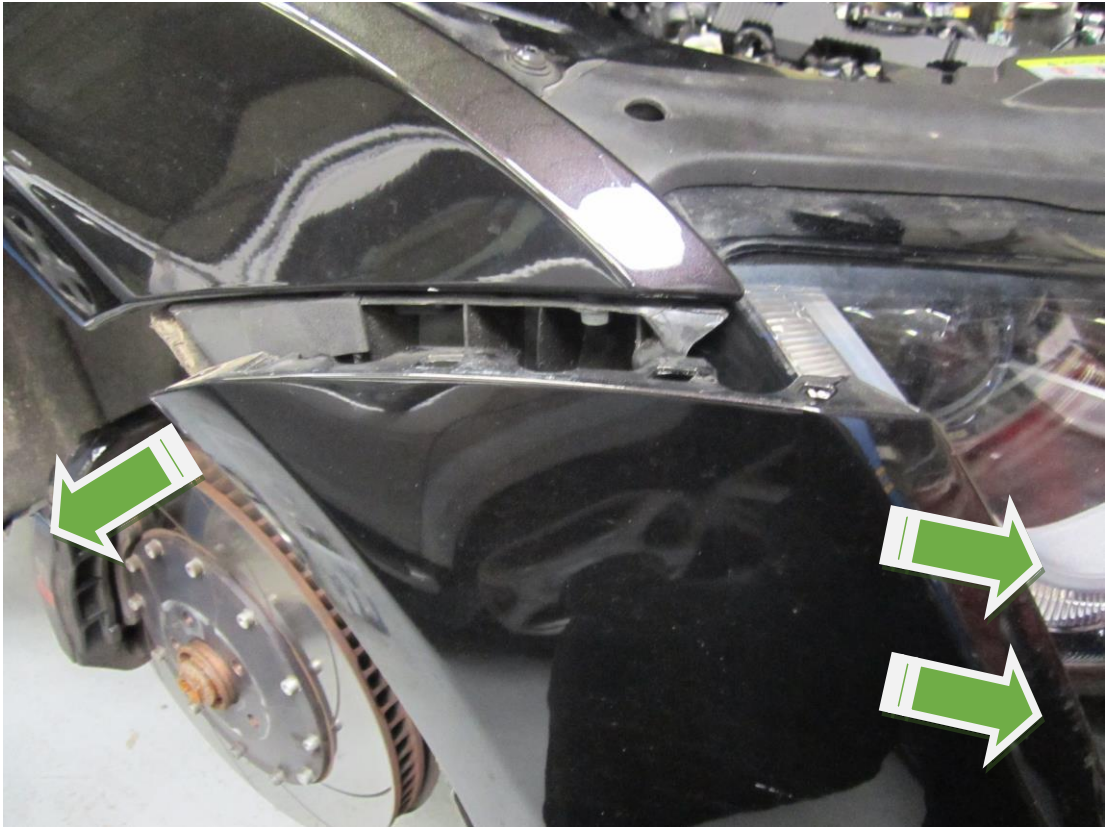
6. Again with your T25 torx drive remove the 7 fasteners that hold the lower arch spoiler in place to your undertray and arch liner.



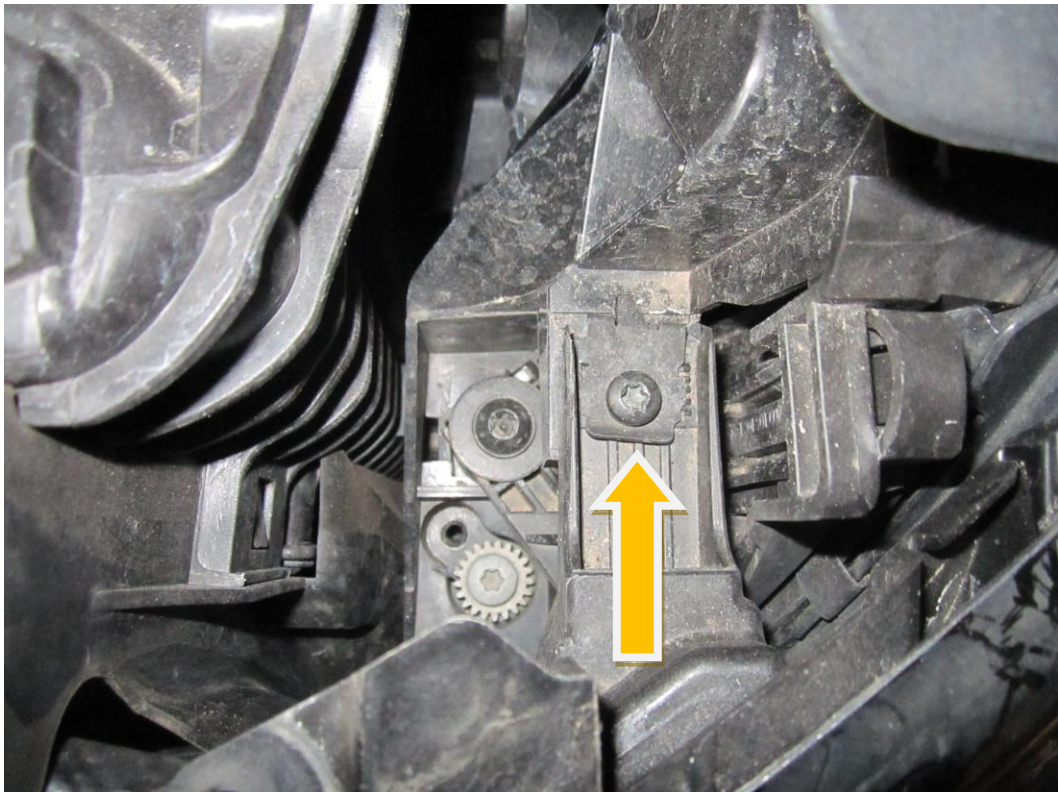
7. Using a T25 Torx driver, remove the fastener that joins the front corner of the bumper to the arch .



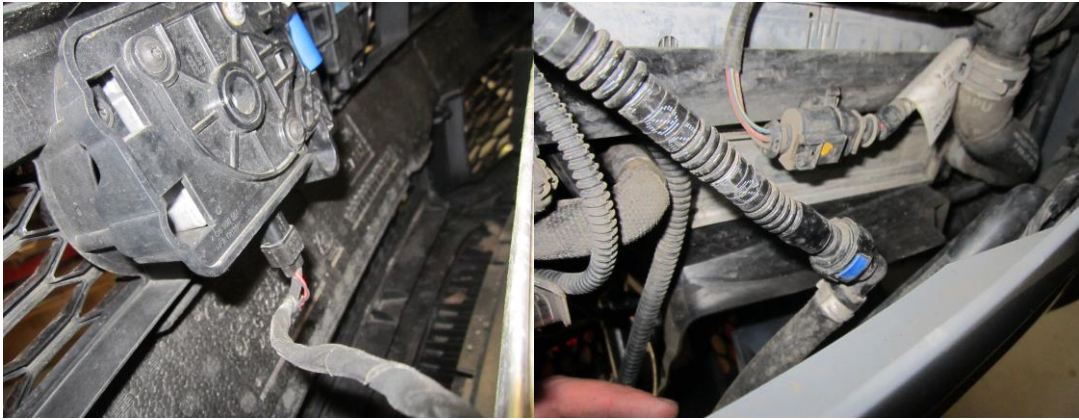
8. Pulling the arch away from the wing and towards the front of the car and unclip the sides of the bumper .



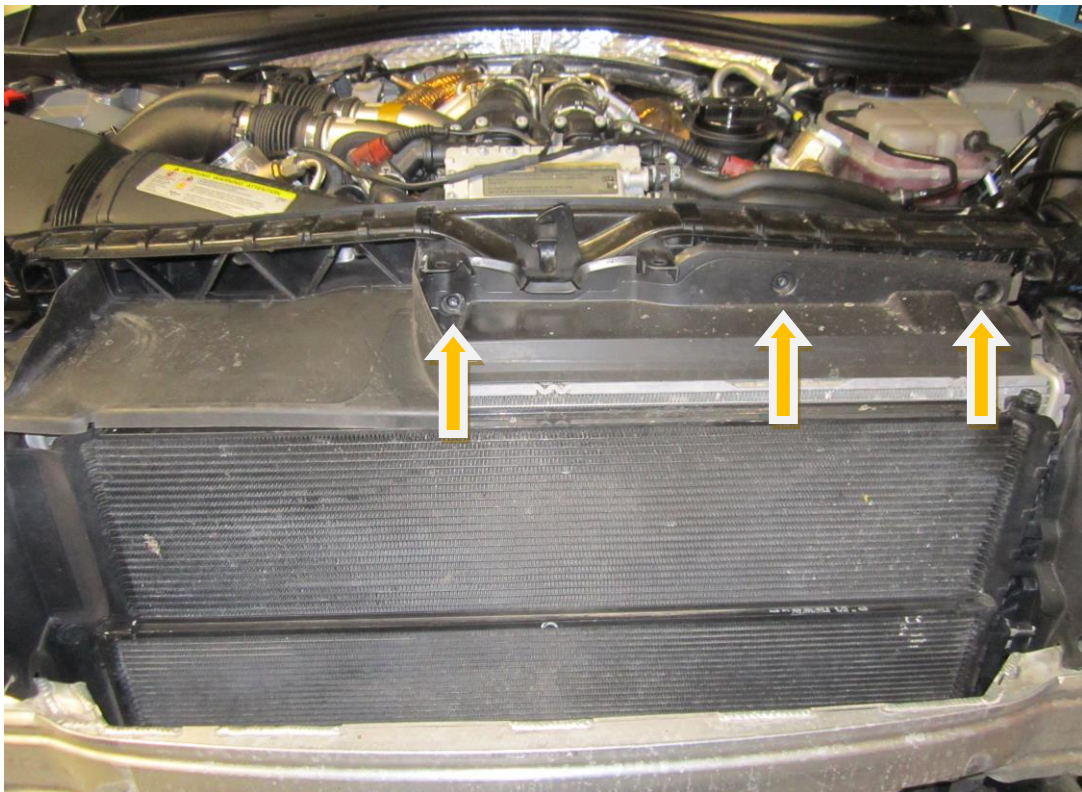
9. Using a T30 Torx drive remove the fastener that holds the bumper in place next to each front headlight .



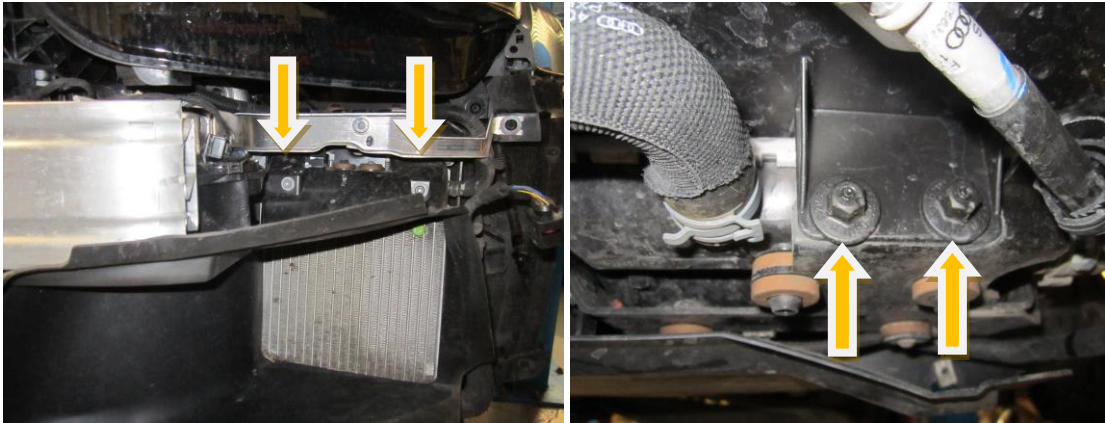
10. For the removal of the front bumper it is advised you have help so whilst one person pulls the bumper towards them they can then hold the bumper in situ while the other can disconnect various plugs on the wiring loom including the washer jets .



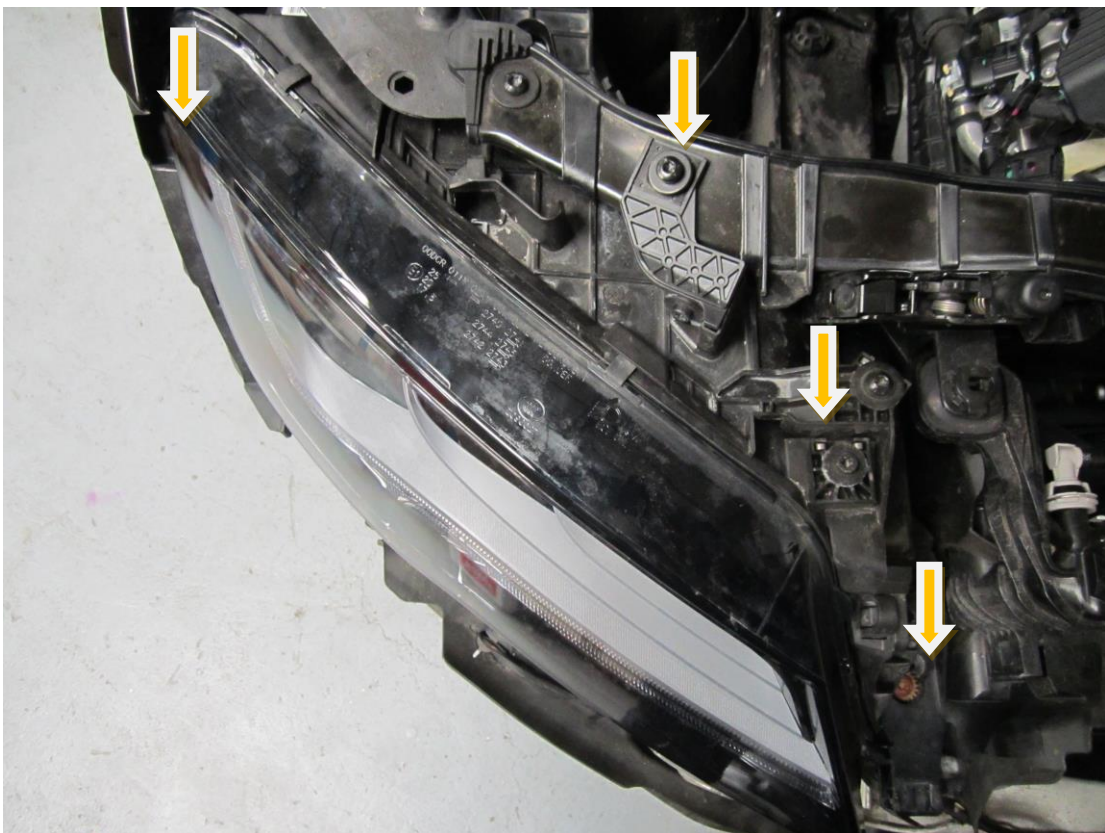
11. Remove the right hand part of the ducting (when viewed from the front of the vehicle) pictured below using a T30 torx Drive .This part is no longer required and can be discarded



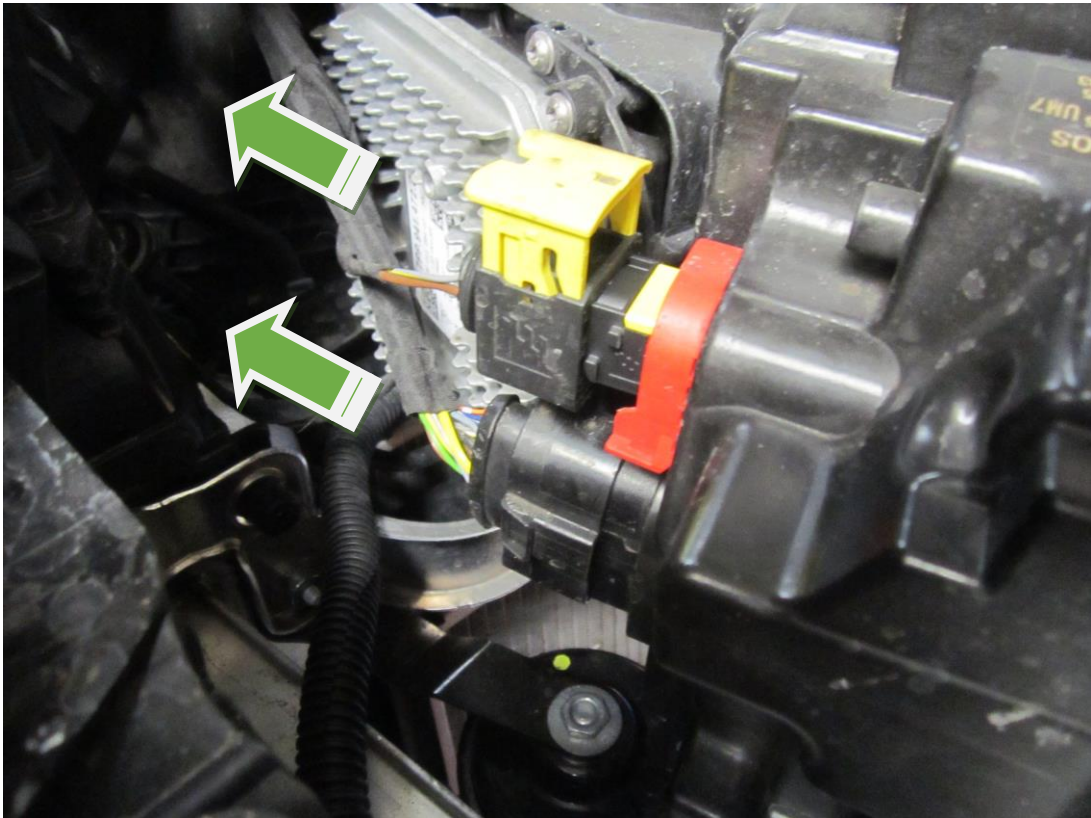
12. Remove the auxillary radiator ducting on the right hand side of the vehicle (when viewed from the front )using a T30 torx drive and a 10mm socket.



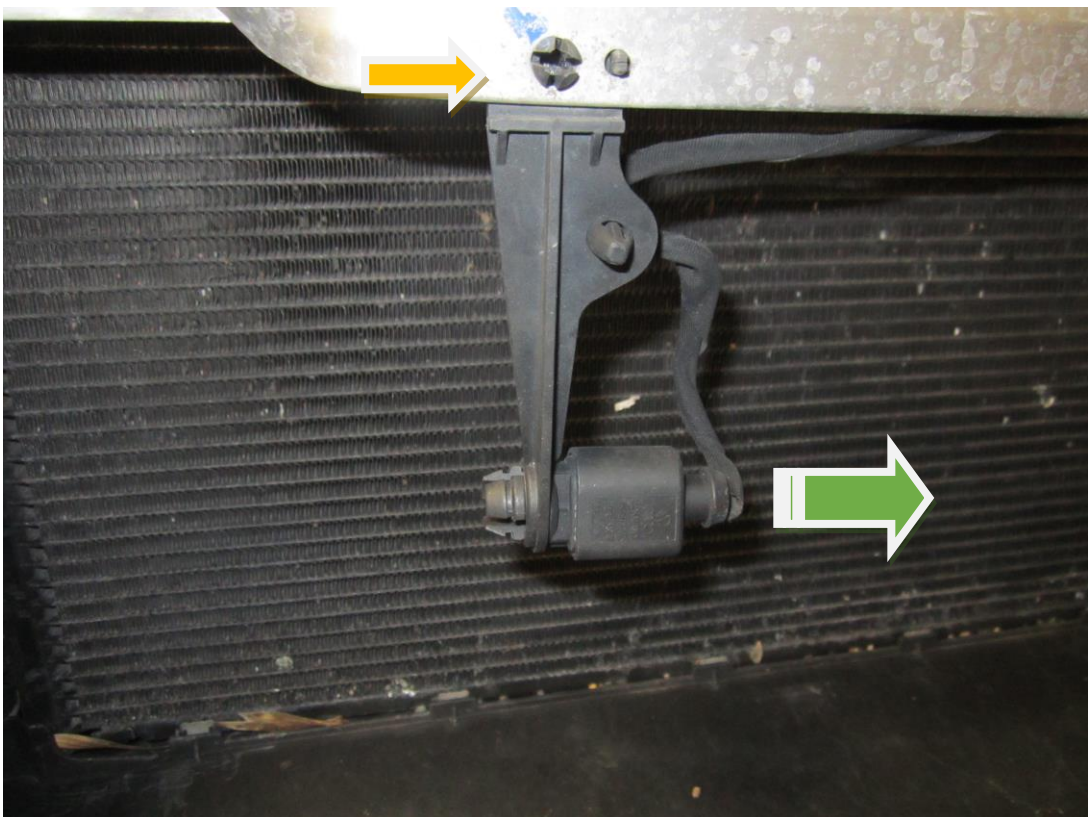
**13.** Using a T30 torx drive, loosen the fasteners that hold the headlight in place.



**14.** Disconnect the wiring loom from the back of your headlights then fully remove .

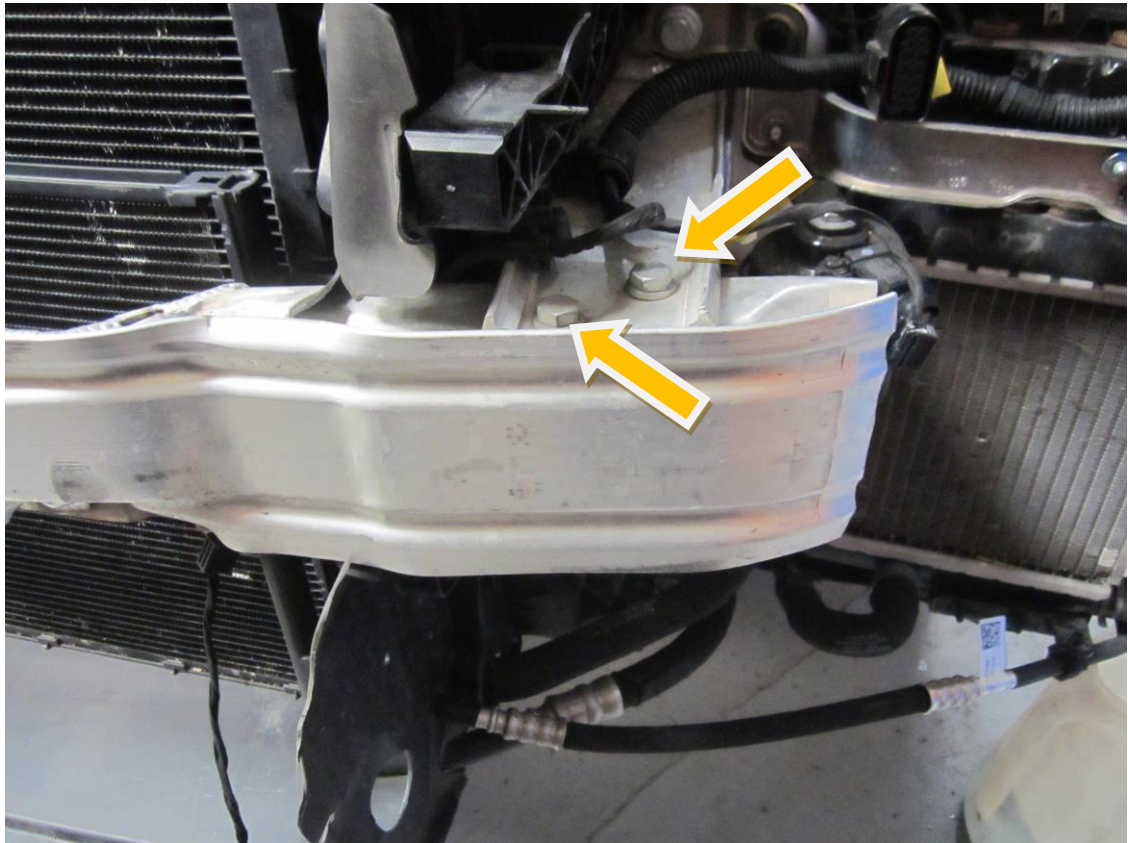


15. Remove the Air temp sensor from the crash bar and disconnect from the wiring loom .

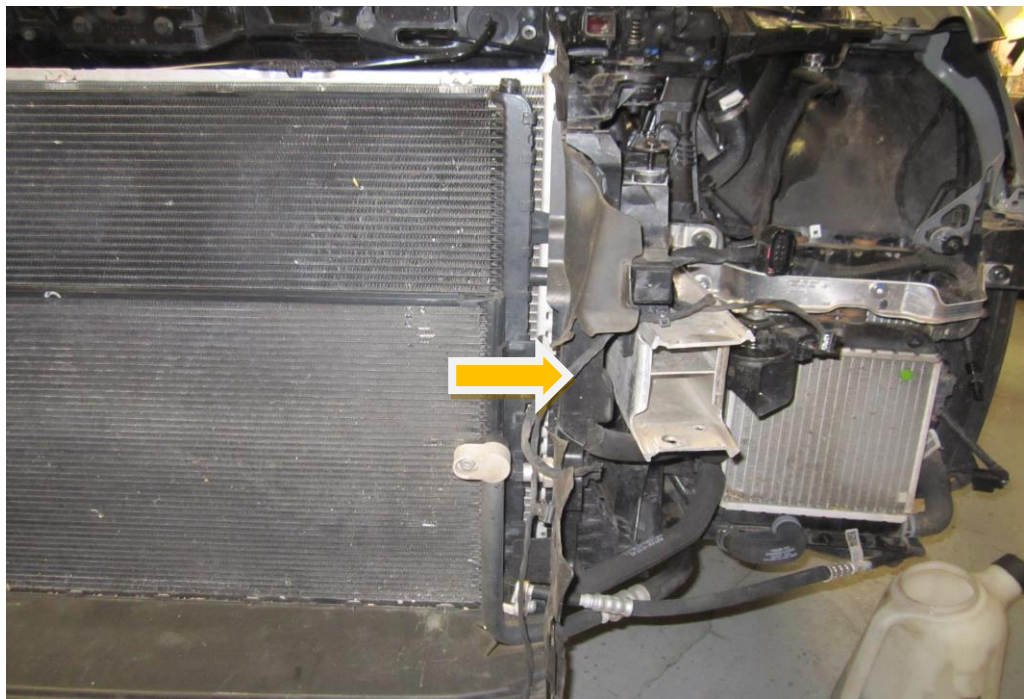


16. Using a 13mm spanner and socket remove the 13mm bolts either side of the crash bar that hold it in place, then fully remove.

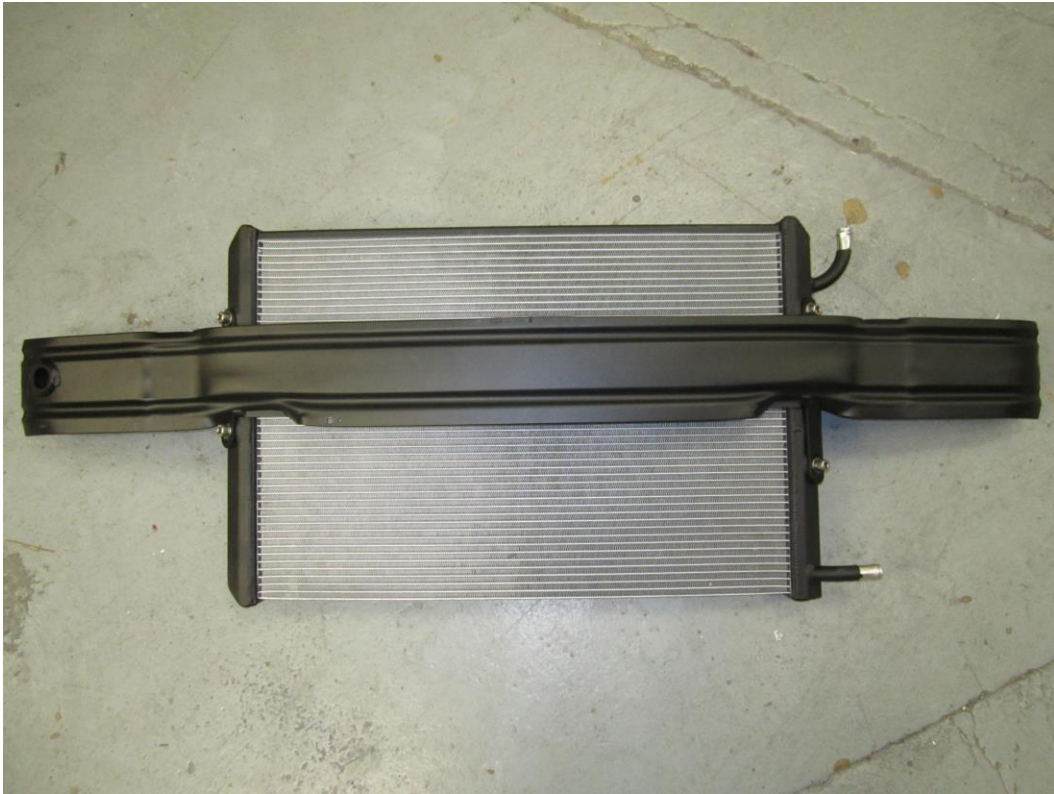




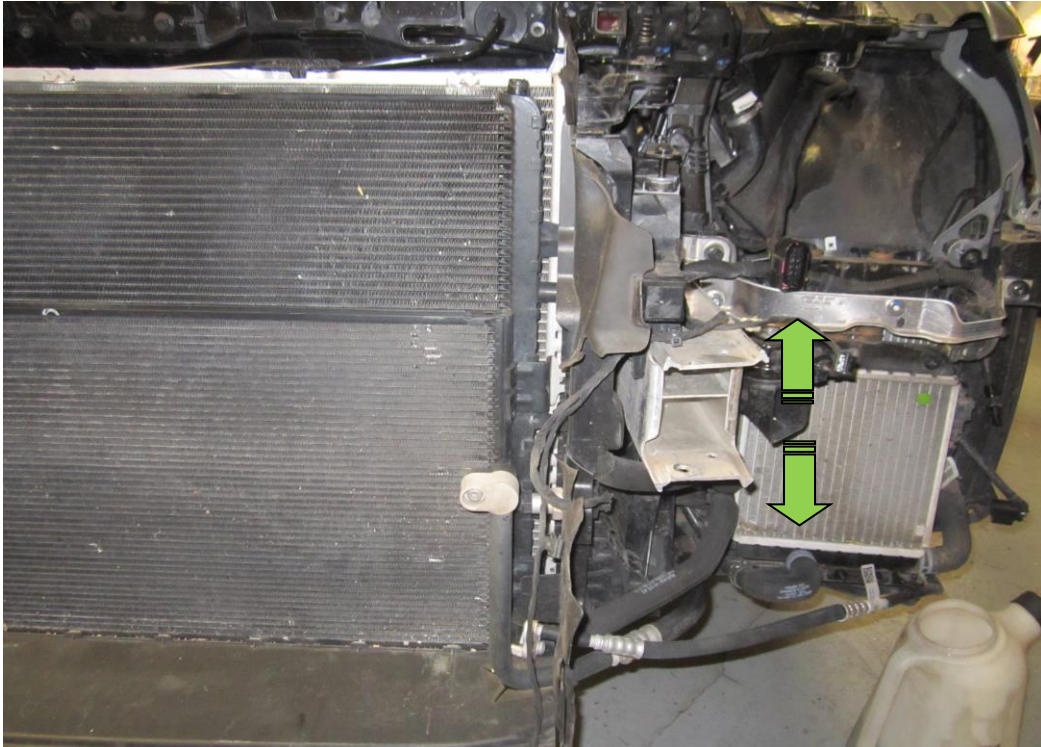
**17.** Remove the part of ducting arrowed and pictured below. This is to gain access to the lower charge cooler hose that must be removed .



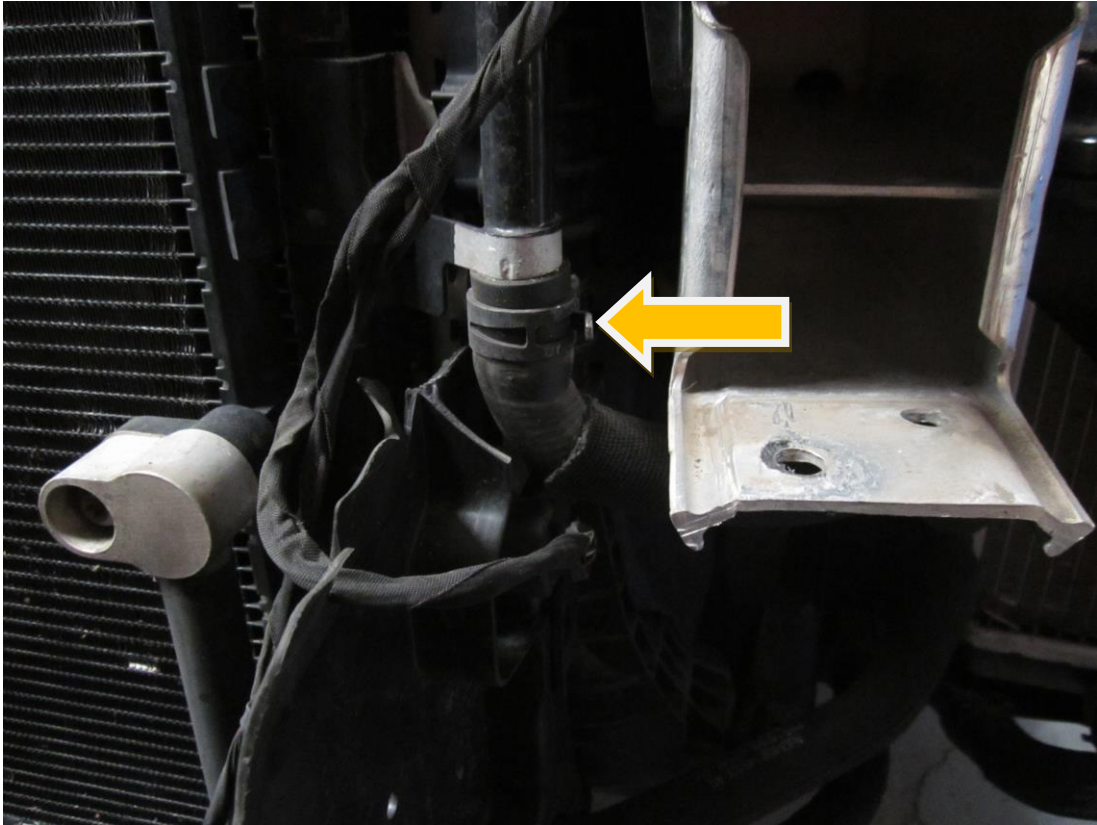
**18.** Fit your new Forge Motorsport radiator to the modified crash bar provided. Do not tighten the M8 allen cap bolts fully as there is adjustment that is needed in a few further steps.



**19.** We found it helped to pry the crash bar mounts open slightly before loosely mounting your new Forge Motorsport charge cooler radiator in place.



**20.** Remove the lower charge cooler hose arrowed in the picture below. You WILL lose the coolant within your OEM charge cooler radiator so a clean container is advisable to catch this in, then you can either re-use or dispose of correctly.



**21.** Trim part of the cowling with a sharp knife as per the picture below. This is to enable space for the new silicon charge cooler pipe .



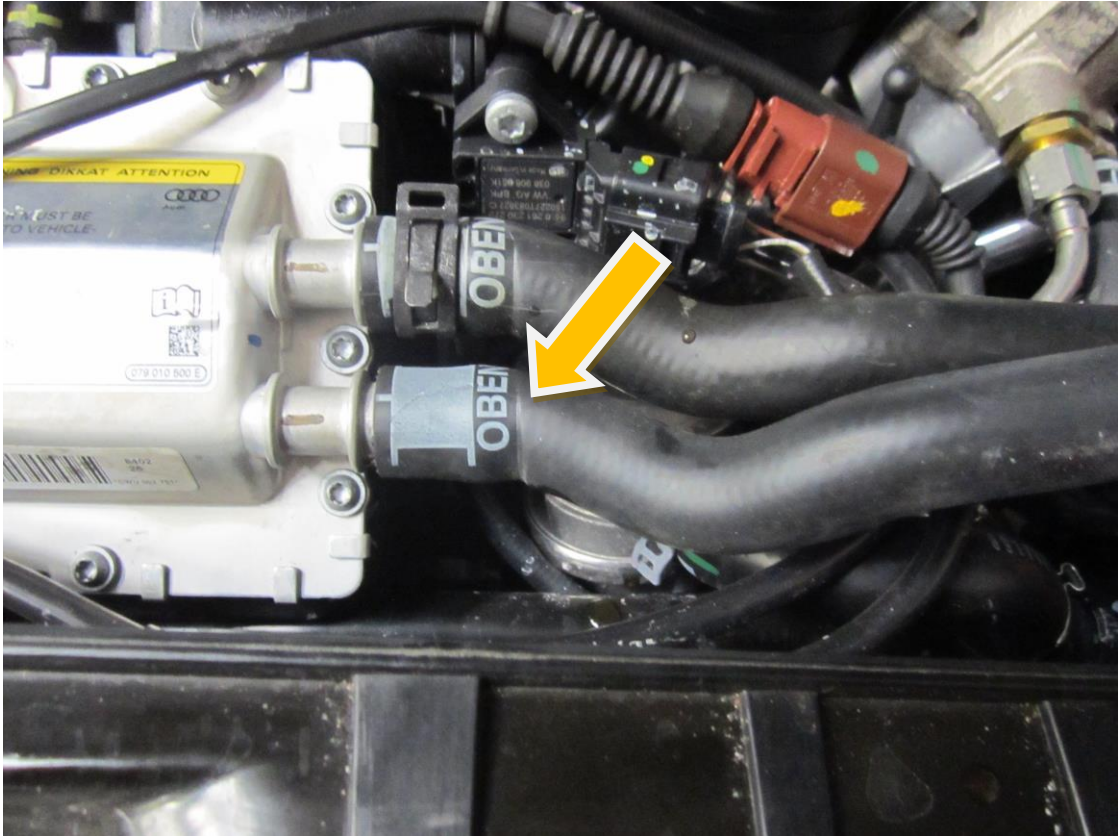
**22.** Where the lower Forge Motorsport charge cooler radiator lower pipe sits, a 40 mm hole must be drilled in the cowl as per the picture below .



**23.** Fit the new Forge Motorsport silicon lower charge cooler hose into position and tighten the hose clamps both ends .



24. Now remove the upper chargecooler hose fully ,this is arrowed and pictured below.



25. You can now fit the new upper Forge Motorsport silicon hose and tighten the hose clamps at both ends.

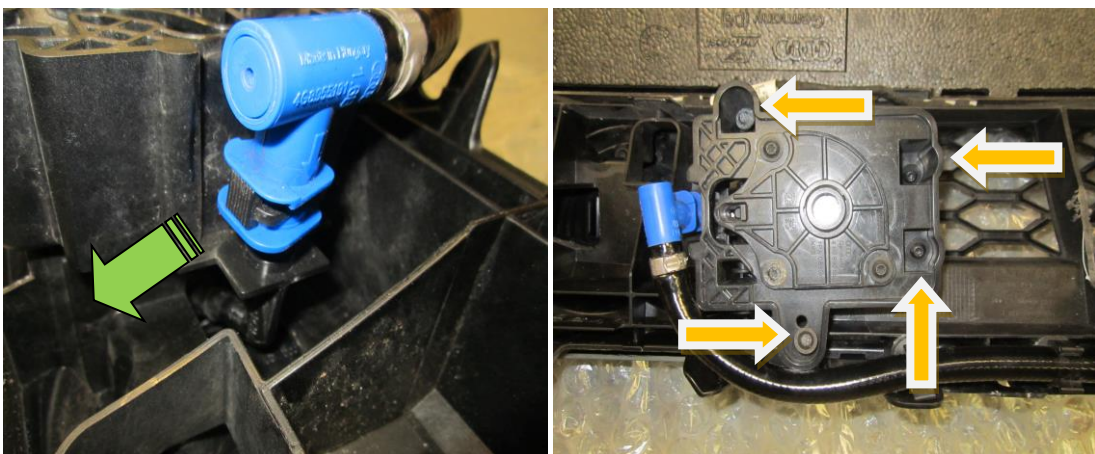


26. Fit the 25mm p-clip provided to hold the silicon hose in position.

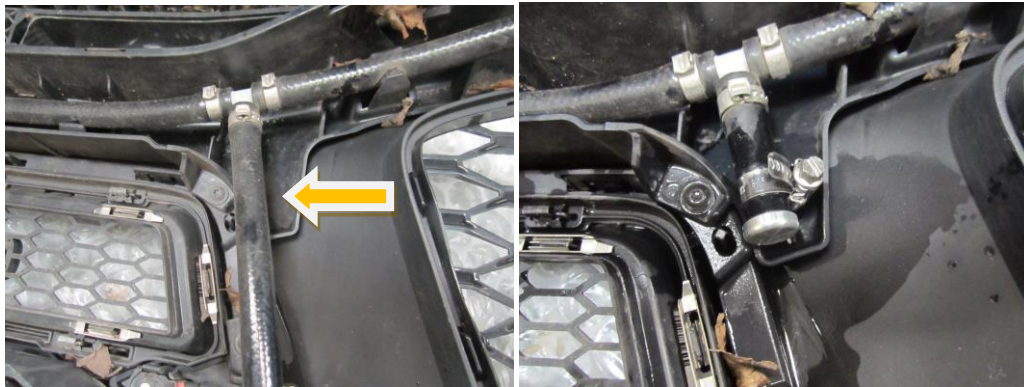


**If your vehicle is not fitted with night vision please move to step 29**

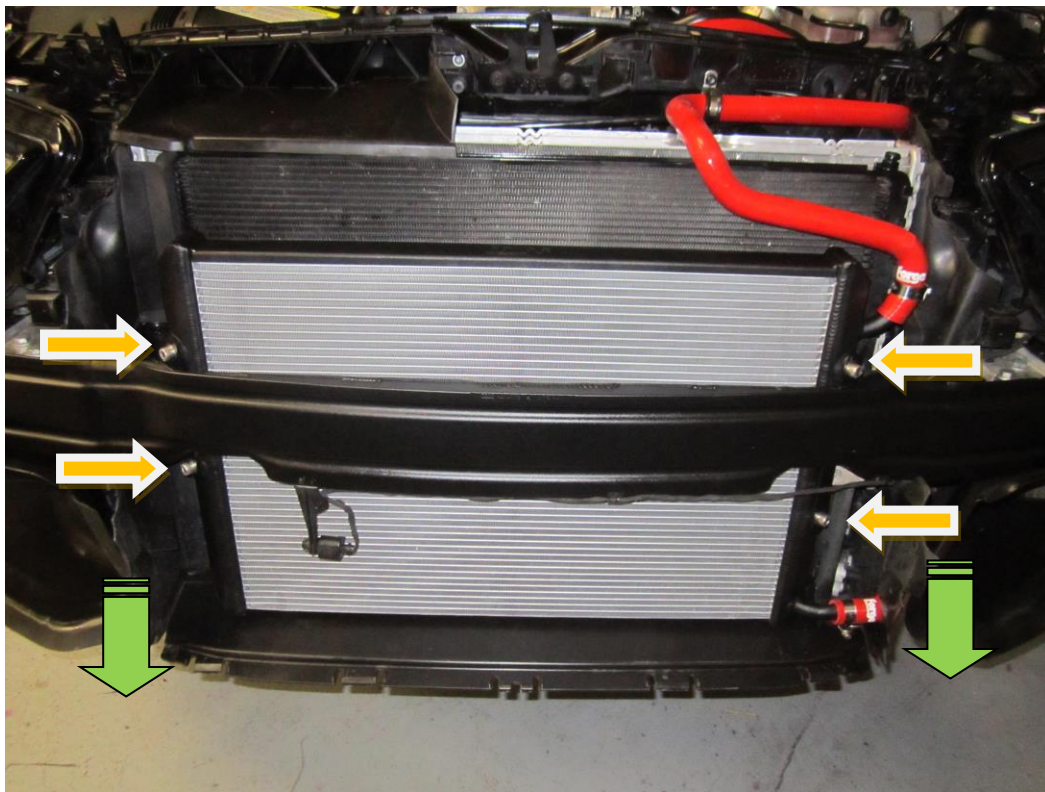
27. Your vehicle may be fitted with a night vision camera, in which case this must be removed in order to refit your bumper. Remove the horse shoe clip from the washer jet connector then disconnect the hose. Using a T20 torx drive, remove the four fasteners that hold the night vision unit in situ.



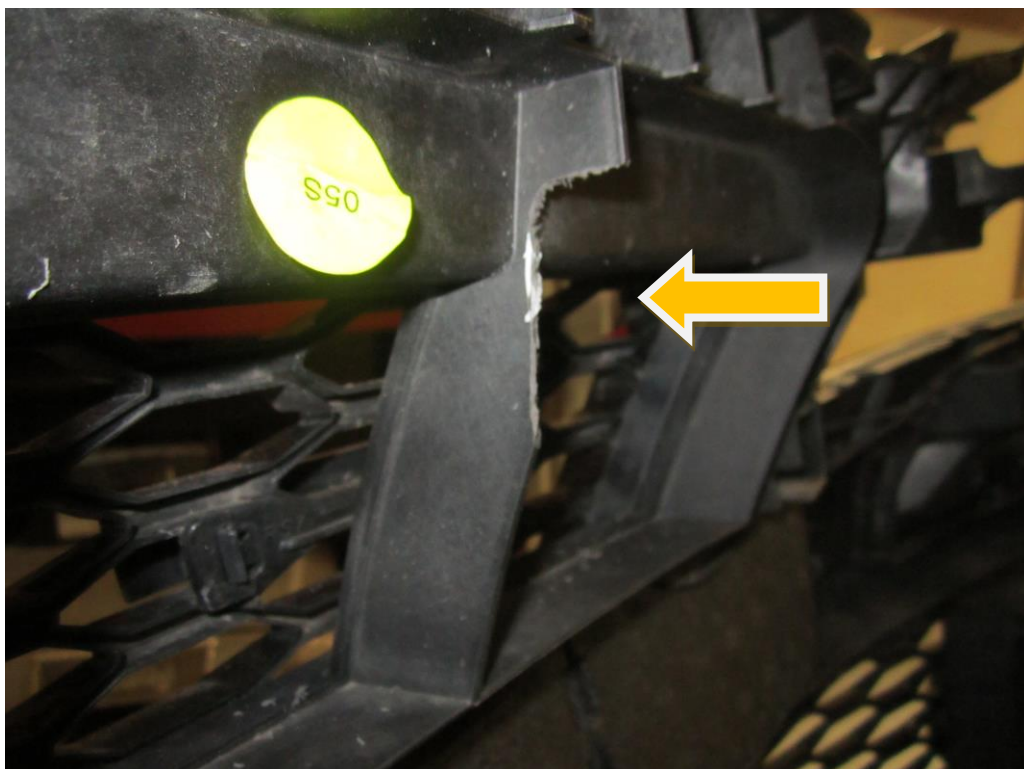
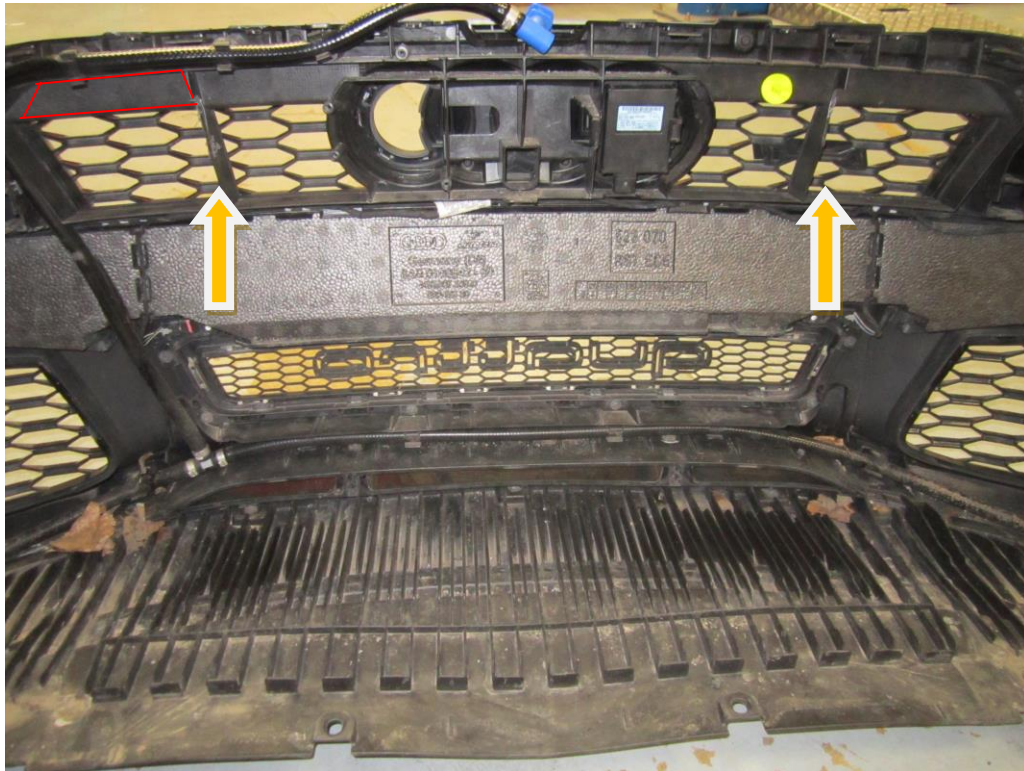
28. Taking care, with a sharp knife cut the washer jet pipe as pictured below then insert the 10mm blanking plug and secure in place with the hose clamp provided.



**29.** You must now tighten up the M8 allen caps that hold your new charge cooler radiator in place. Slide the radiator down towards the lower cowling leaving approx 1-3mm gap then fully tighten the radiator on the crash bar.

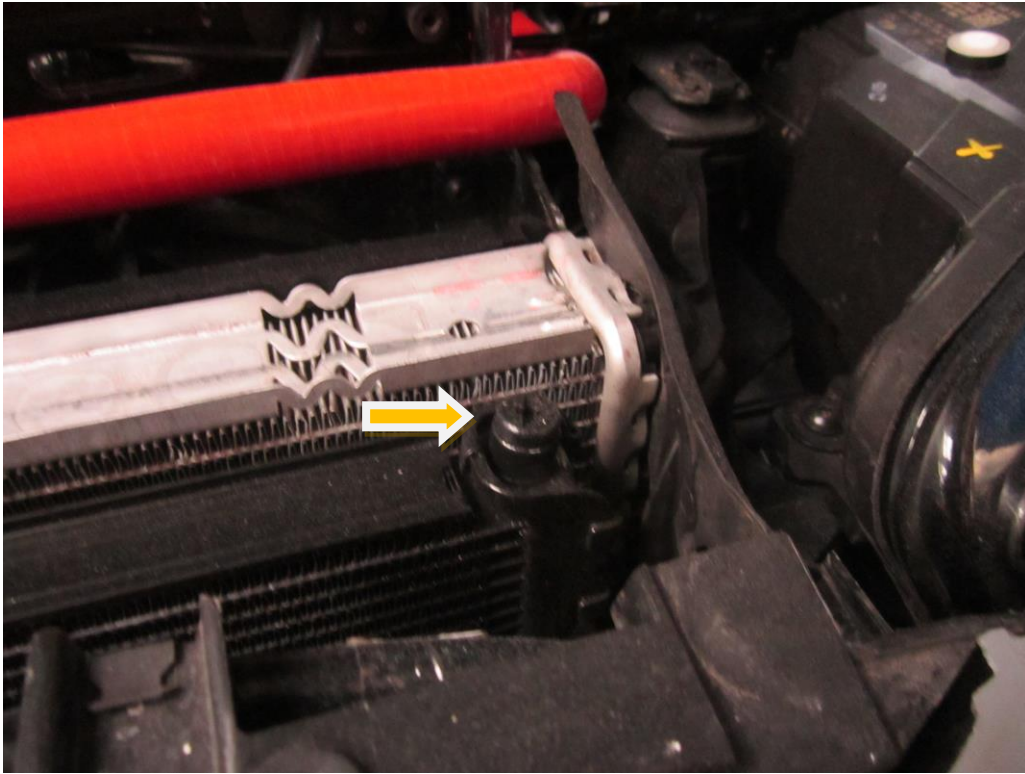


**30.** Part of your bumper must now be trimmed using a sharp knife or rotary grinder. Using a pen, mark the bumper then trim as per the photo below the area marked in red must also be cut out. Once trimmed, place the bumper in situ and hold in position with the two torx fasteners you removed in section 9.



**31.** You must now fill your coolant back to the correct level and bleed your charge cooler radiator . The bleed nipple is found on the OEM charge cooler radiator on the right hand side when viewing the engine bay from the front of the car. The bleed nipple can be undone with a posi-driv screwdriver. Top up as much coolant as the header tank will hold then loosen the bleed nipple until no air comes out. You should then start your engine and repeat this process until the charge cooler radiator is fully bled.





**32.**Keep checking your coolant level until fully bled .



**33.**Repeat steps 1-18 in reverse order to complete your install.



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