AUDI RS6 C7 CHARGECOOLER 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.

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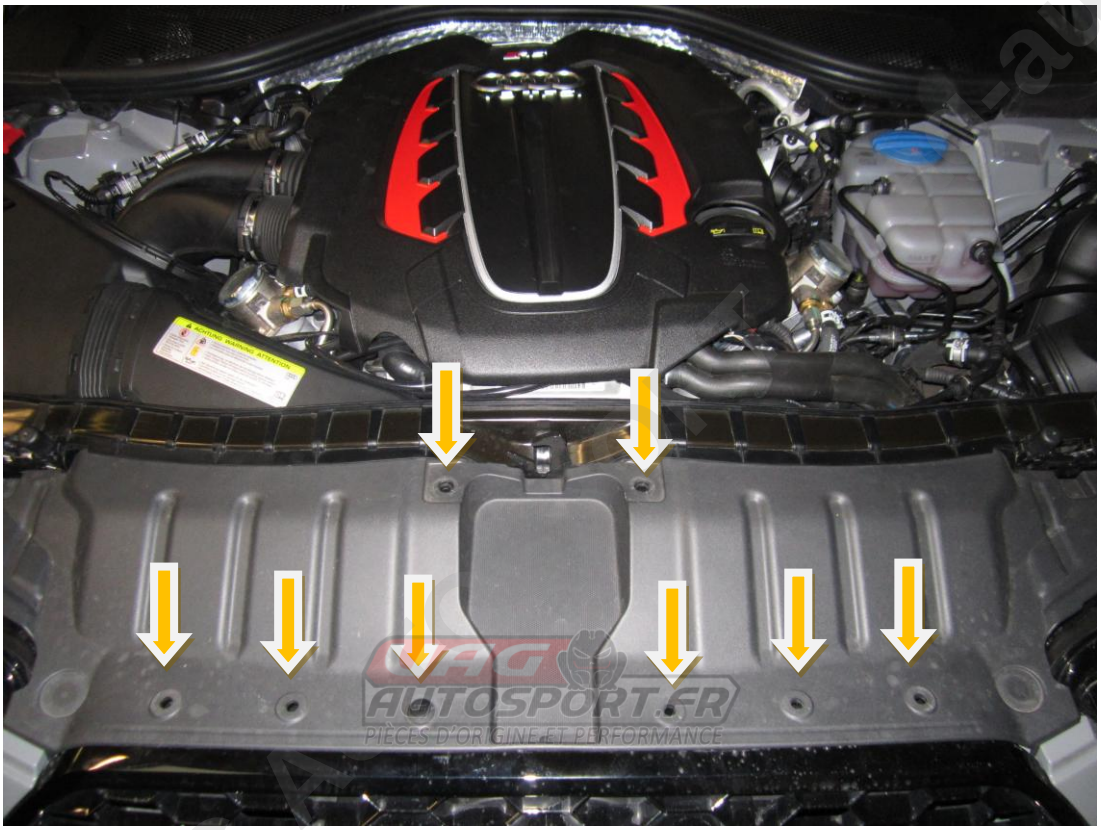
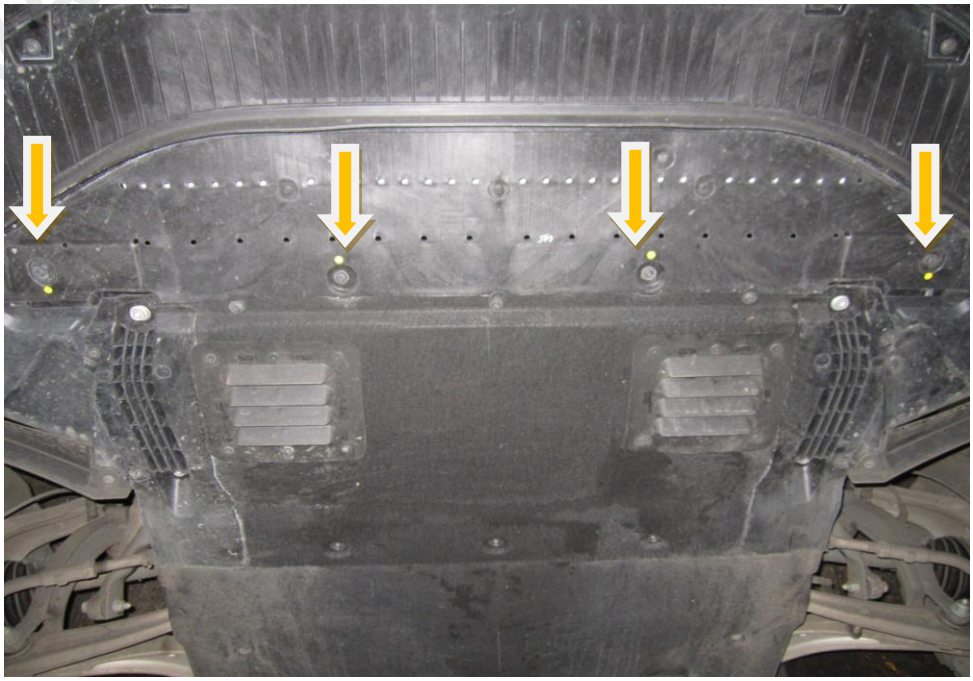
1. Loosen the bolts on both front wheels using a 17mm socket and wheel brace then raise your vehicle using a car lift and remove the wheels fully.

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 .



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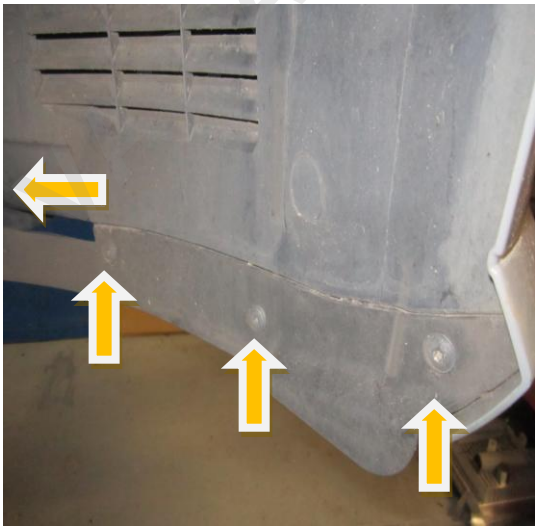
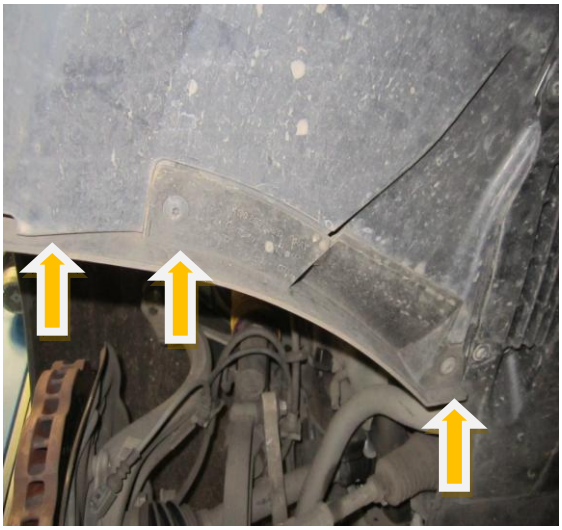
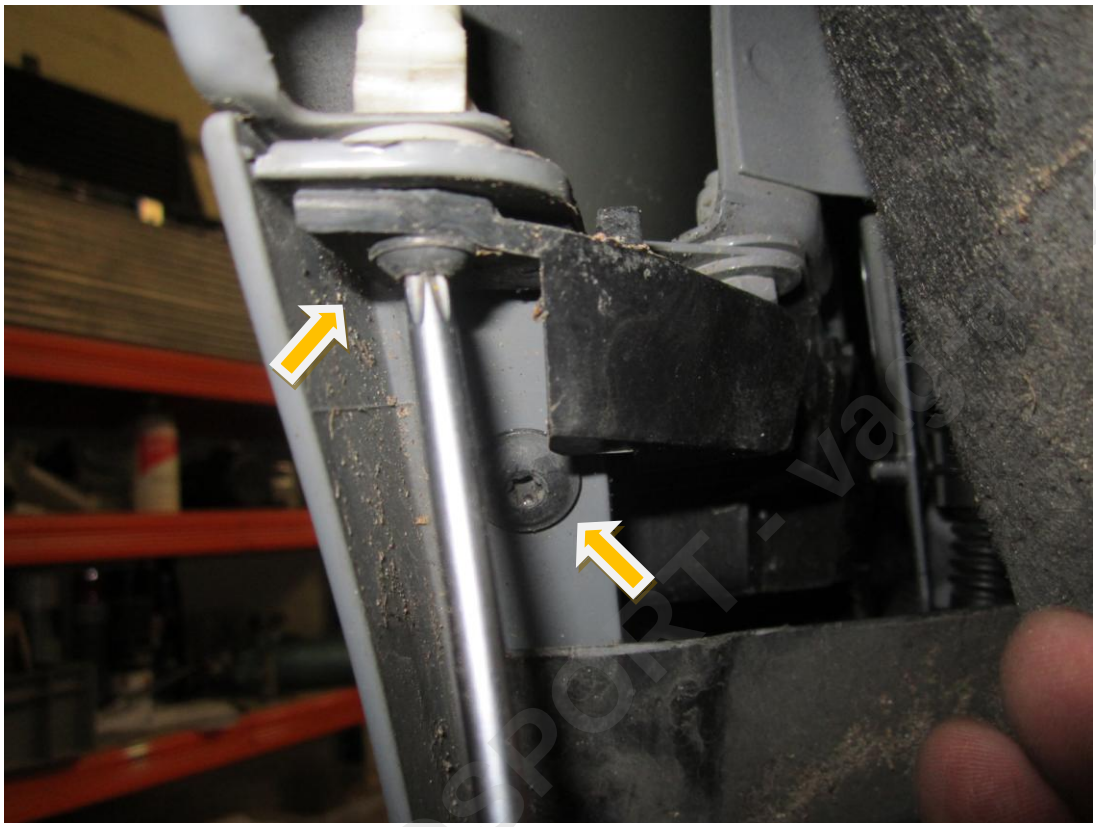
4. Now remove the 4 Torx fasteners within the wheel arch using a T25 Torx drive.

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

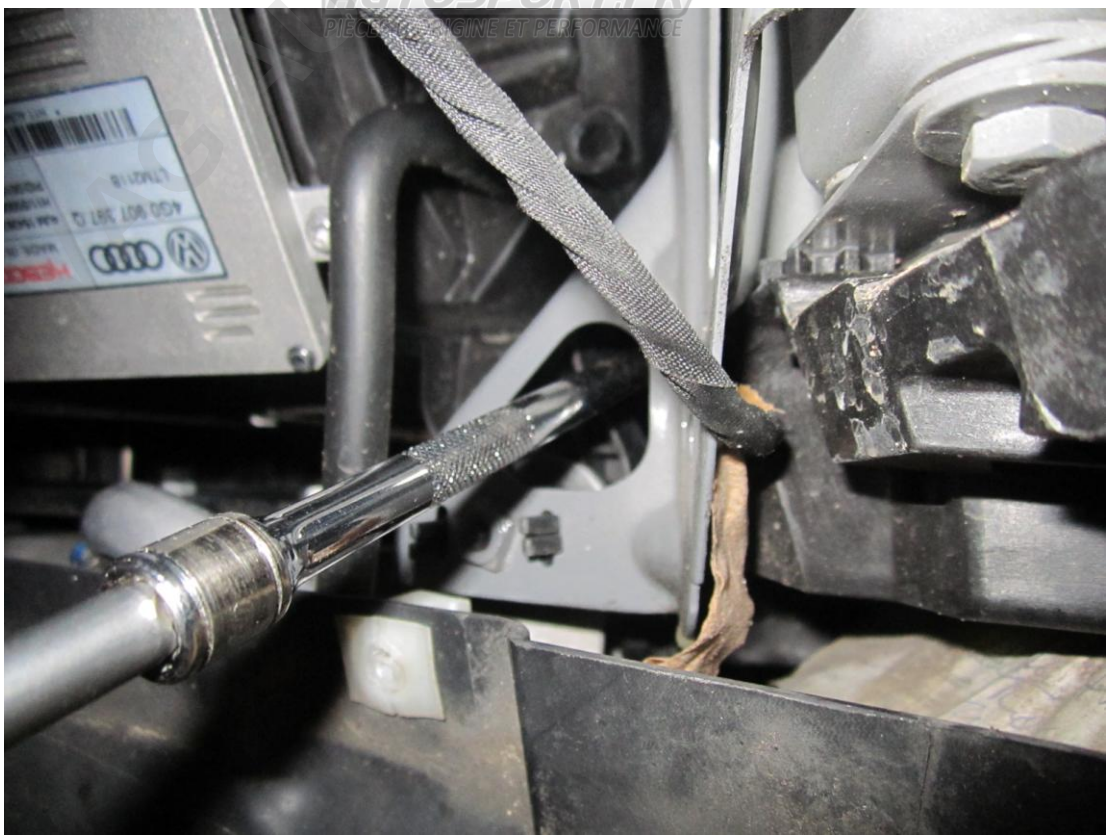




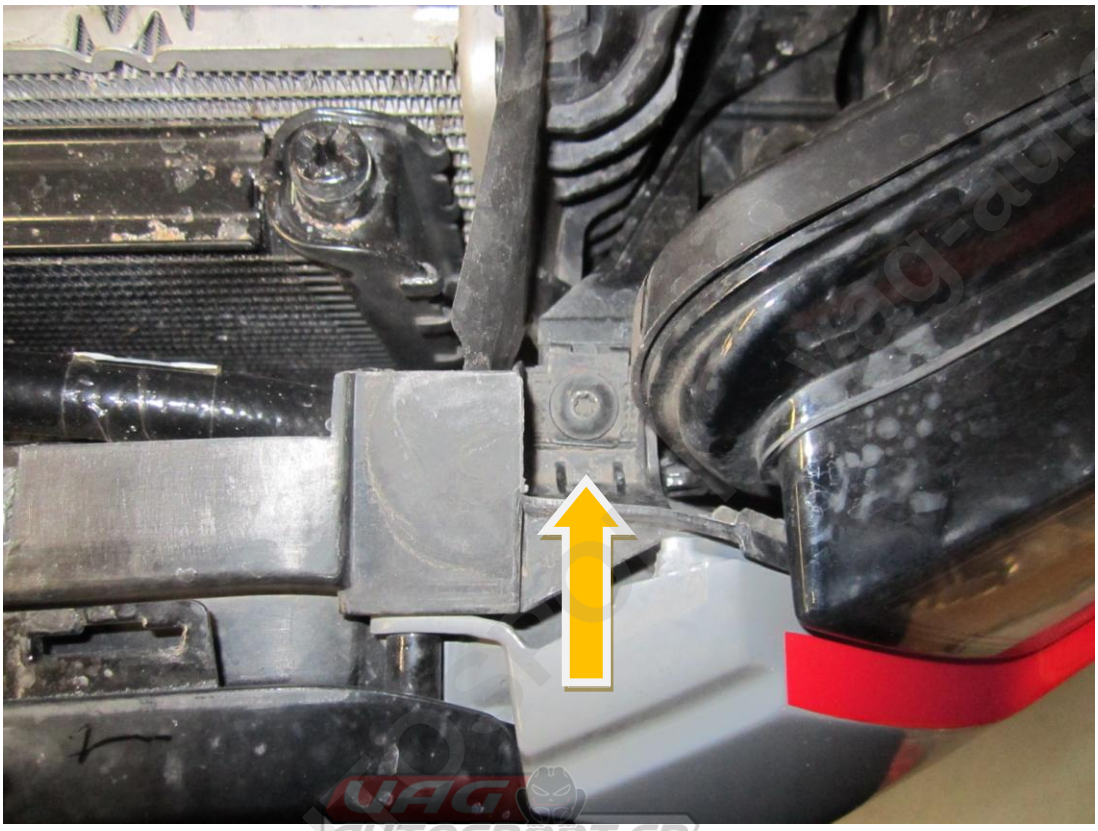
6. Using a T25 Torx drive, remove the two fasteners that join the front corner of the bumper to the arch.



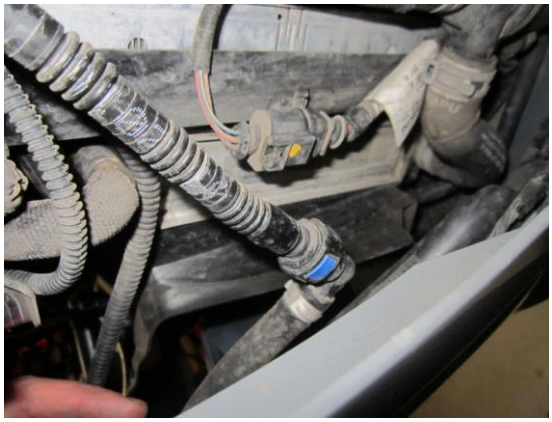
7. Using a 10mm socket and long extension, undo the 10mm hex head that holds the bumper to the front slam panel under the headlight .



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



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



10. 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 can be discarded as it is not needed any more.

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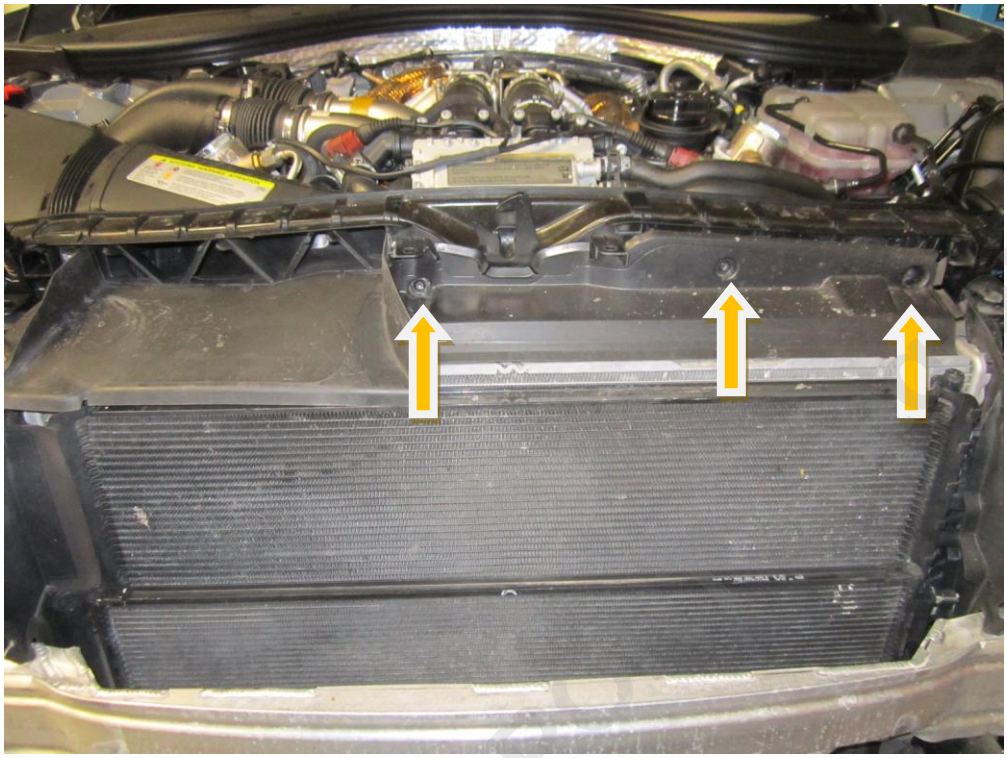
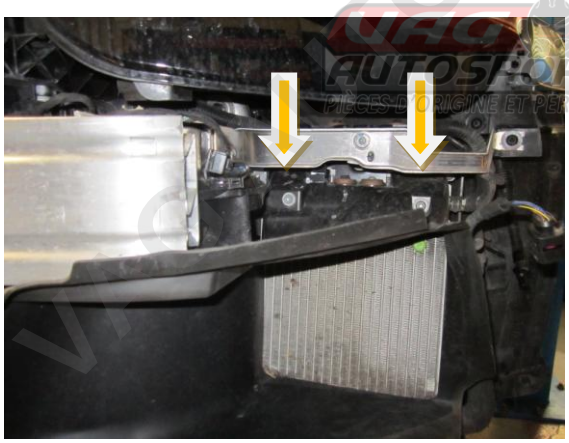
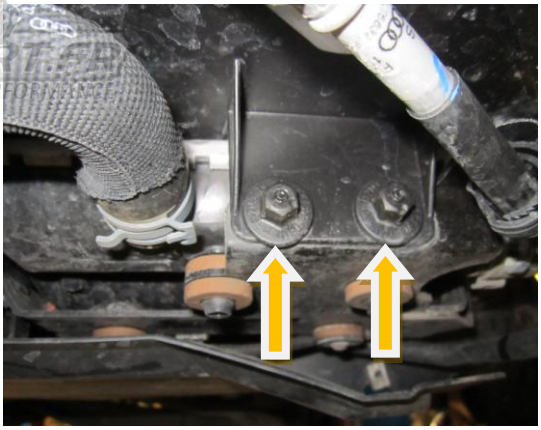
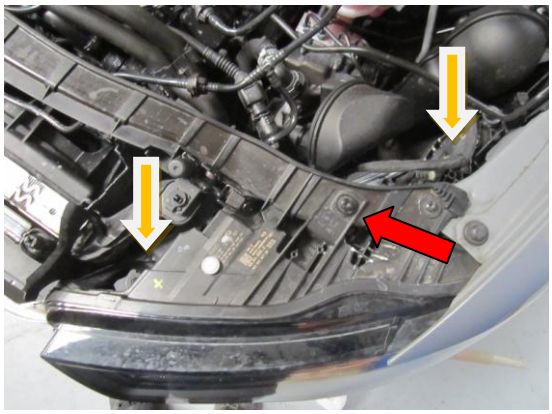


11. Remove the auxiliary radiator ducting on the right hand side of the vehicle (when viewed from the front) using a T30 torx drive and a 10mm socket.

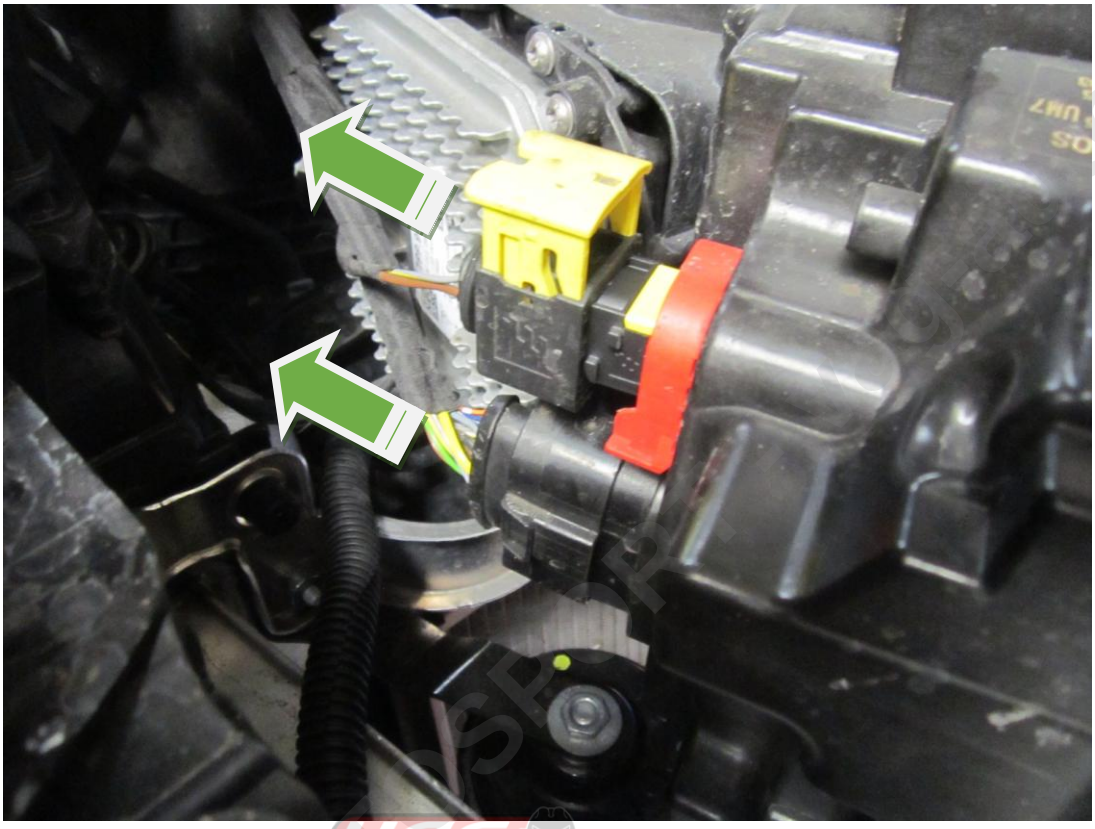




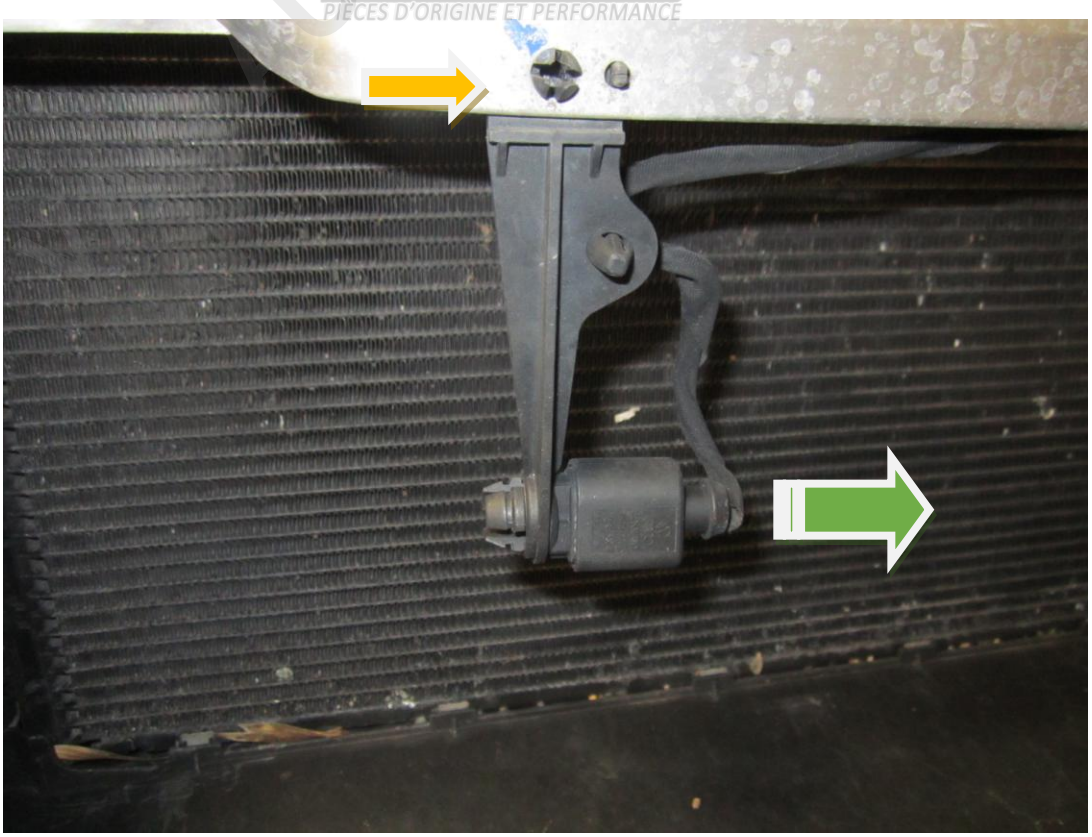
12. Using a T30 torx drive loosen the fasteners that hold the head light in place. The fasteners that are arrowed red must be removed fully .



13. Disconnect the wiring loom from the back of the headlights then fully remove .



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



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

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16. Remove the part of ducting arrowed (pictured below) to gain access to the lower charge cooler hose that must be removed .

17. Fit the new forge motorsport radiator to the modified crash bar provided. Do not tighten the M8 allen caps fully as there is adjustment that is needed in a few further steps.

18. We found it helped to pry the crash bar mounts open slightly before loosely mounting the new Forge Motorsport chargecooler radiator in place.

19. 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 to either re-use or dispose of correctly.

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

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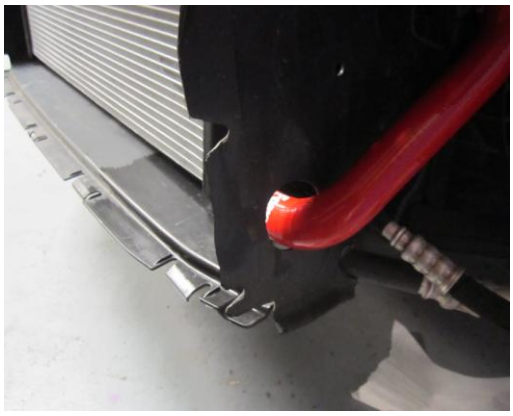
21. Where the lower Forge Motorsport charge cooler radiator pipe sits, a 40 mm hole must be drilled in the cowling as per the picture below .

22. Fit the new Forge Motorsport silicon lower charge cooler hose into position and tighten the hose clamps at both end .



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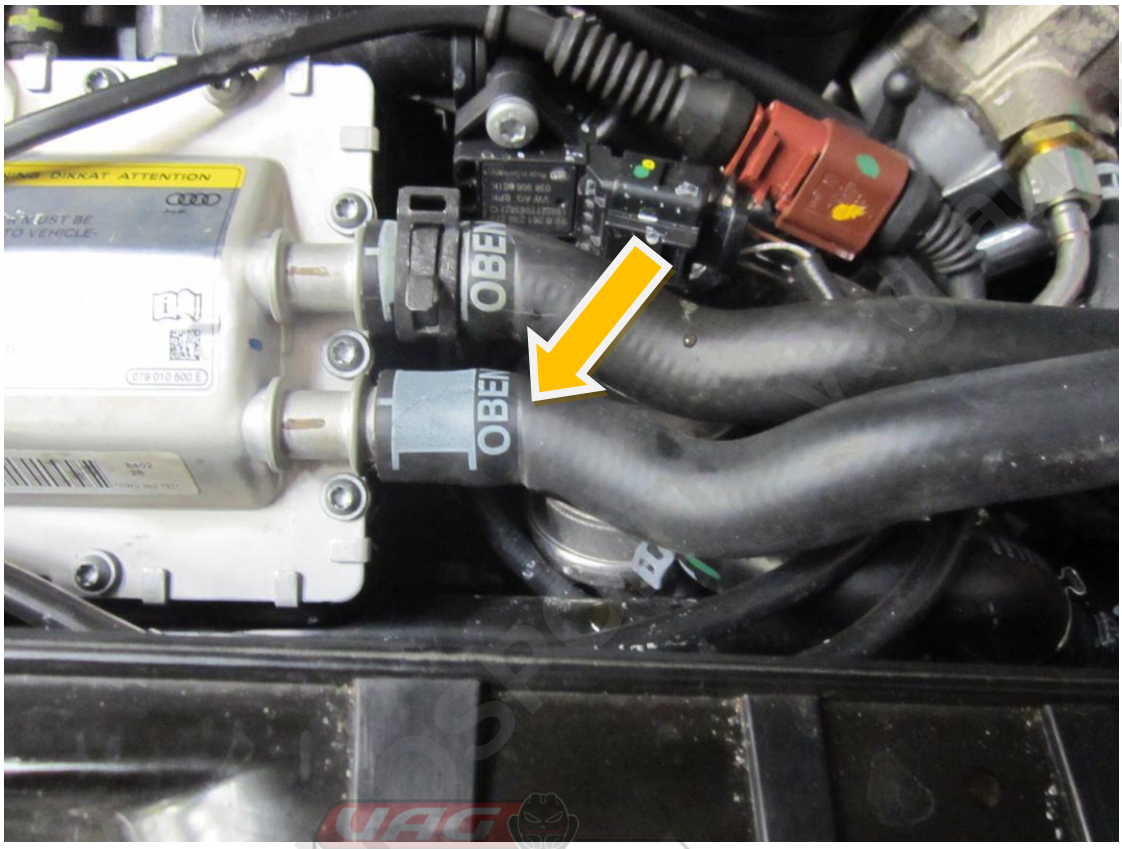
23. You must now remove the upper chargecooler hose fully ,this is arrowed and pictured below.

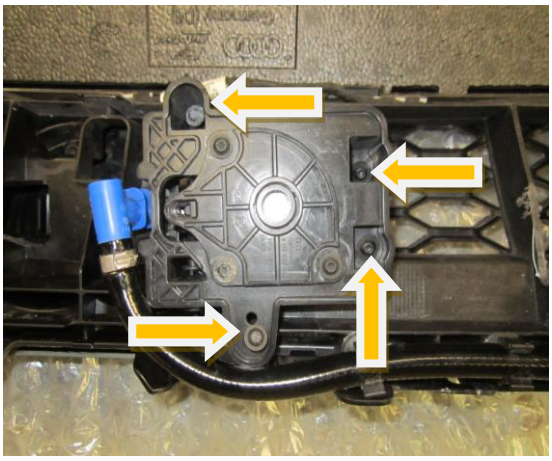


24. You can now fit the new upper Forge Motorsport silicon hose and tighten the hose clamps at both ends .

25. 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

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



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

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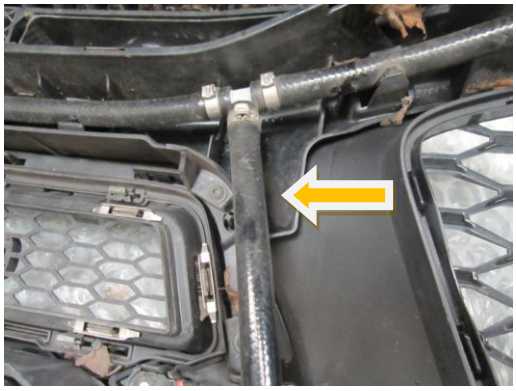
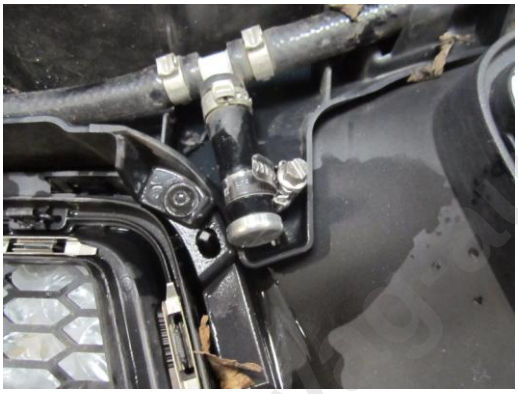
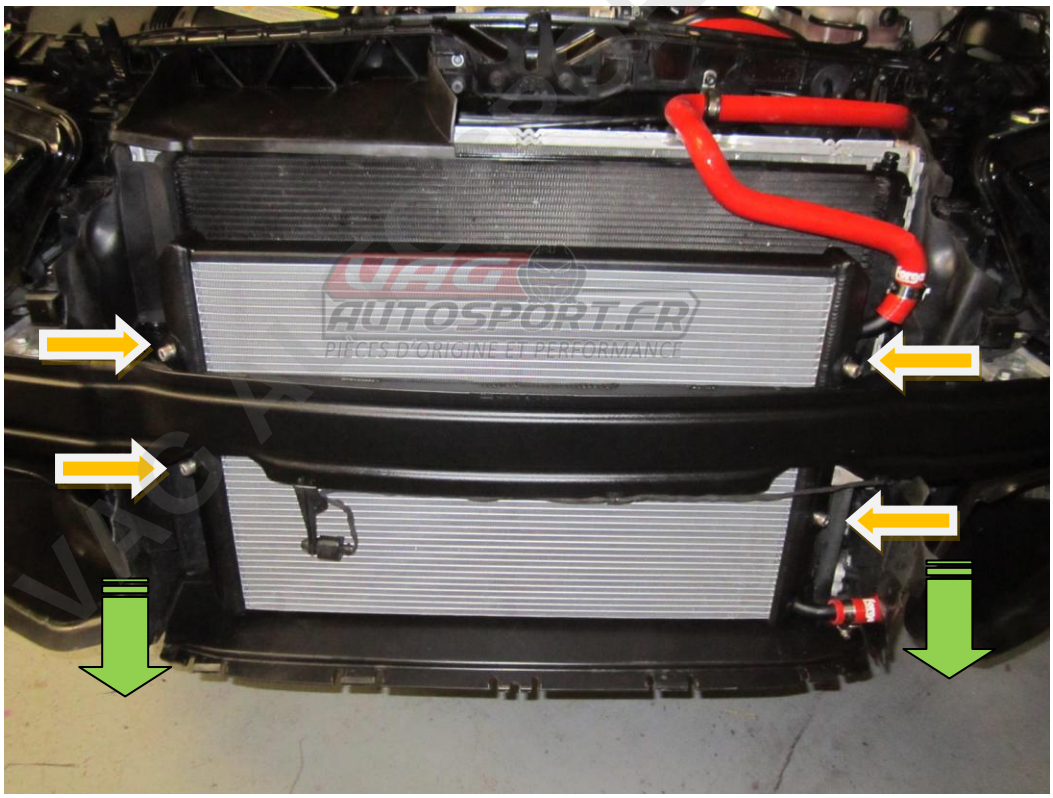


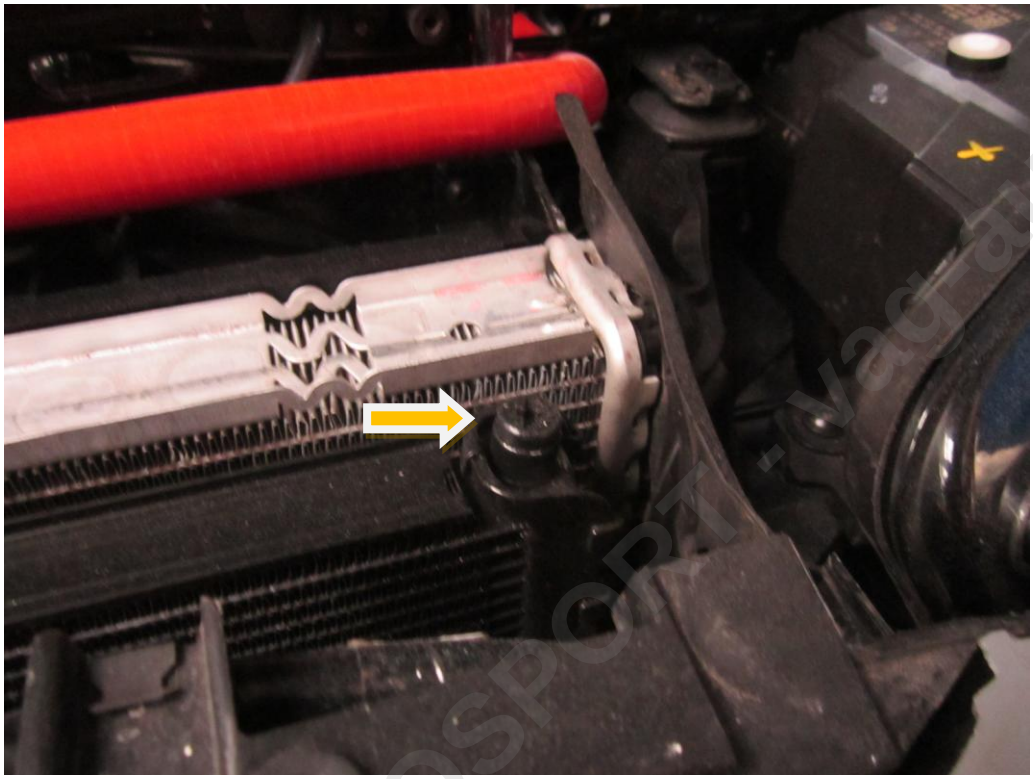


28. You must now tighten up the M8 allen cap bolts that hold the new charge cooler radiator in place, slide the radiator down towards the lower cowling leaving approx 1-3mm gap then fully tighten the radiator in place .



29. Place the bumper back in position connecting the wiring loom to the various functions you had un-plugged in the earlier stages, fasten the bumper with the two fasteners you removed in step 8 .

30. You must now fill the coolant back to the correct level and bleed the 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 drive 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 the engine and repeat this process until the charge cooler radiator is fully bled.



31. Keep checking the coolant level until fully bled .

32. Repeat steps 1-18 in reverse order to complete the install.

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