MERCEDES A45 AMG – CENTRE CHARGECOOLER RADIATOR
INSTALLATION INSTRUCTIONS.



Tools required:

- **Vehicle ramp or jack and suitable axle stands.**
- **10mm spanner.**
- **8mm, 10mm Socket, suitable ratchet.**
- **T25, T50 Torx driver.**
- **E11 Torx socket.**
- **Hose clamp removal tool or large pliers.**
- **Flatblade screwdriver or flat panel clip removal tool.**
- **Suitable containers for draining of coolant and screen wash.**
- **Safety eyewear, footwear, gloves and protective clothing are also recommended.**

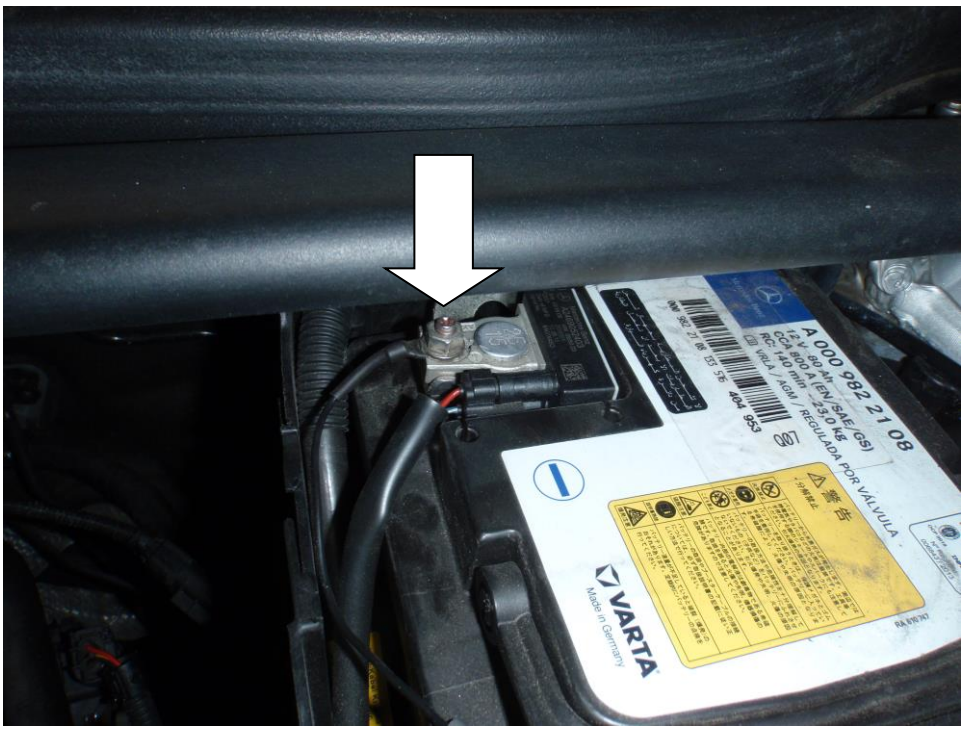
1. To avoid injury allow the vehicle to cool down fully before starting this installation.

2. Raise the vehicle on a ramp or using a jack and support with suitable axle stands.

Engineered for performance

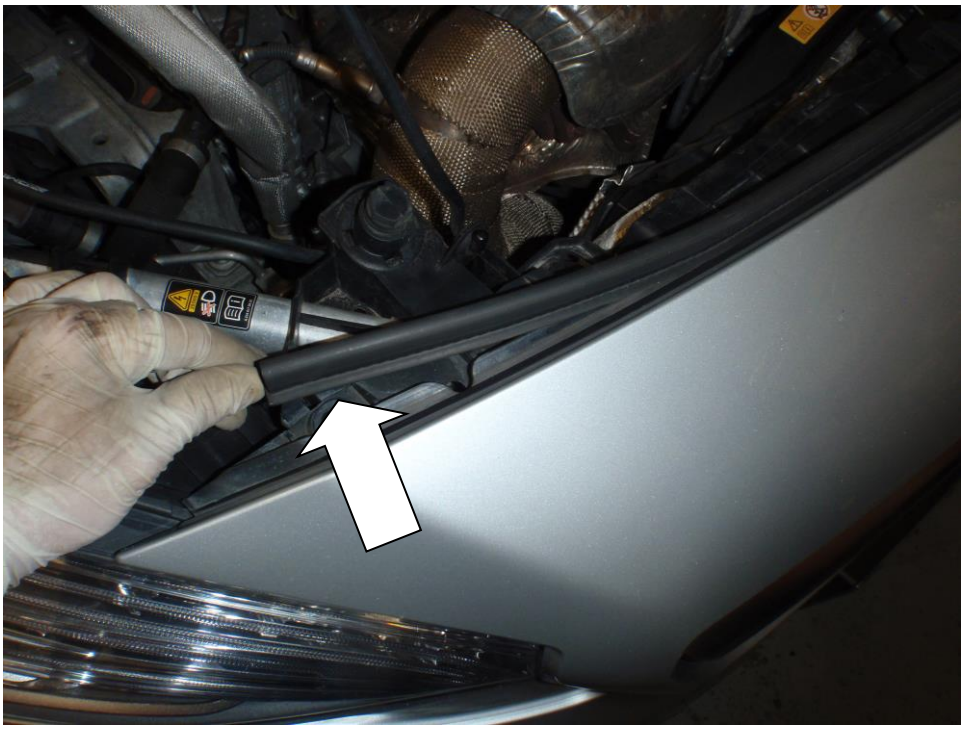
3. Open and secure the bonnet. Carefully remove the battery cover and using a 10mm spanner disconnect the 2x battery terminals. Use a suitable piece of packing material to prevent the terminals from touching the battery while the parts are being installed.



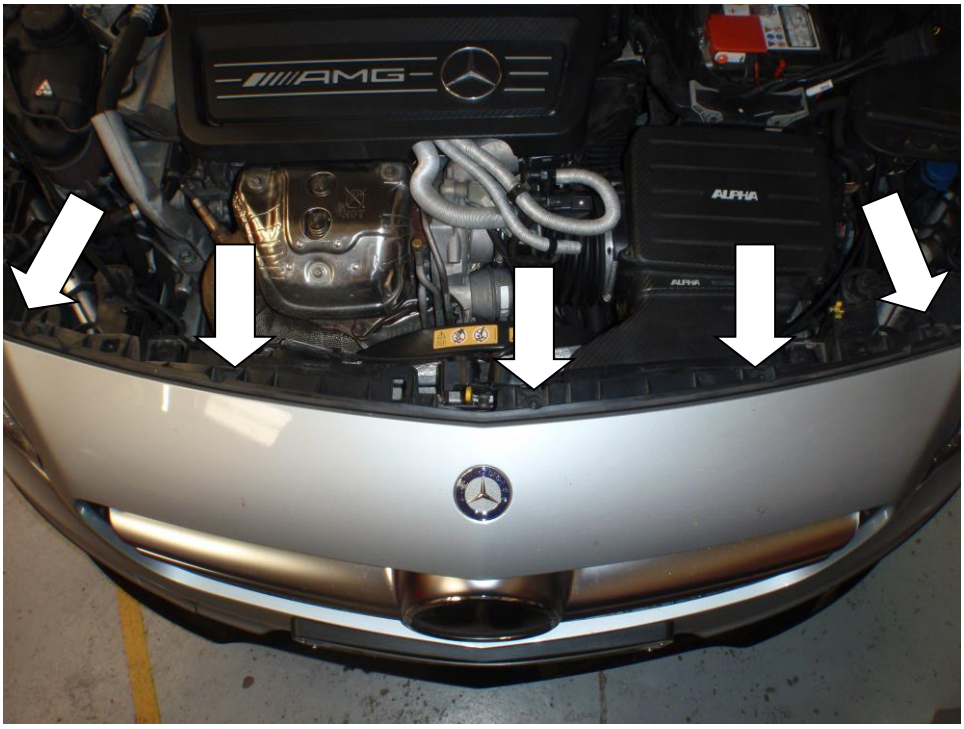


Note: Failure to correctly disconnect the battery may cause issues with the crash protection system (SRS) and the ECU.

4. Remove the rubber strip from the top edge of the bumper.



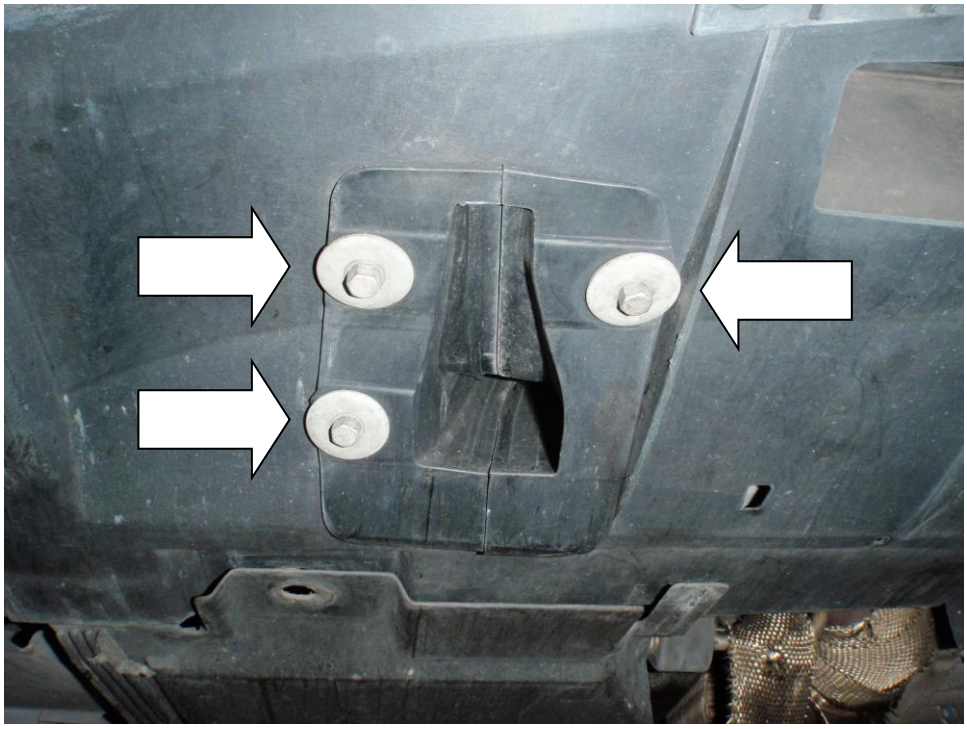
5. Using a T25 Torx driver undo the 5x screws across the top of the bumper.



6. Using a flat panel-clip tool or similar remove 2x plastic clips from each arch liner.

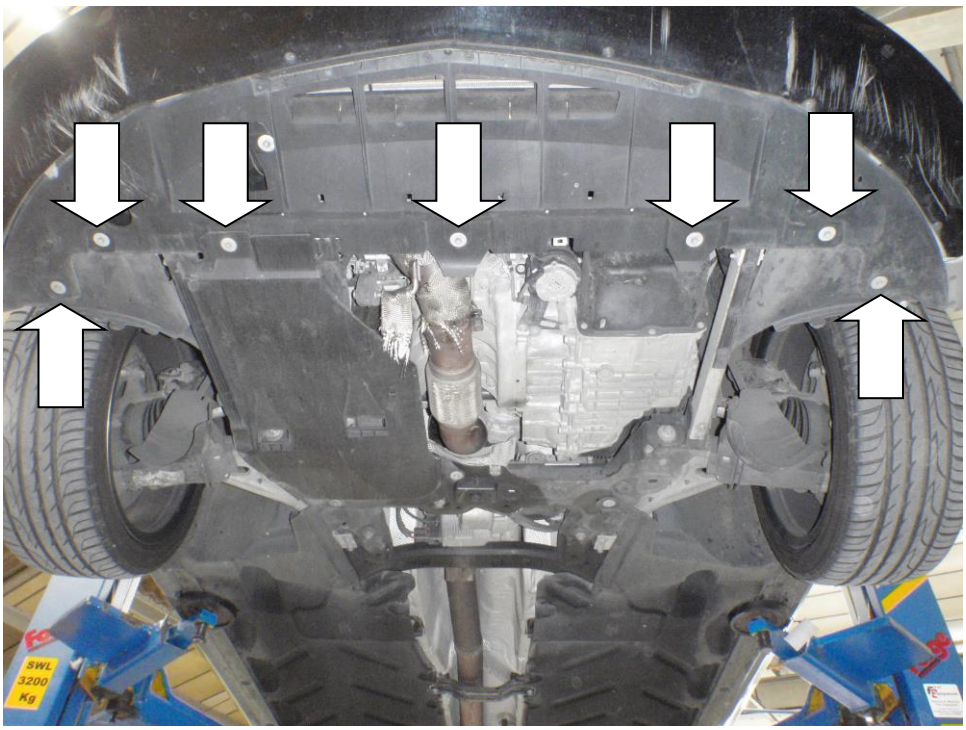


7. Undo 3x 8mm screws and remove air intake scoop.

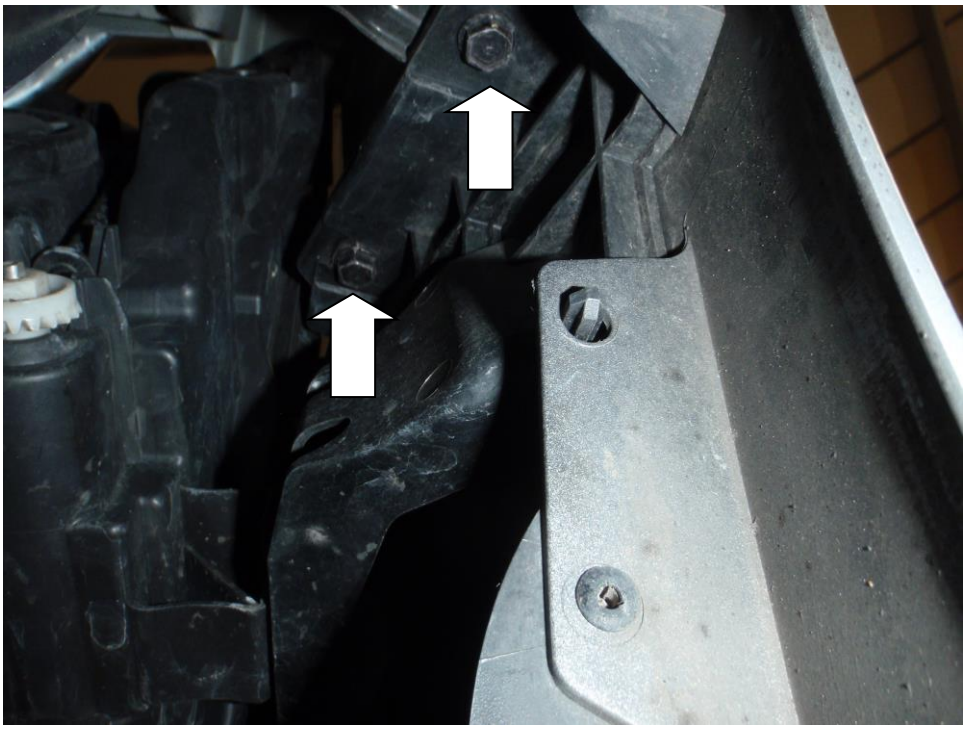




8. From the underside of the vehicle, undo 7x 8mm screws.



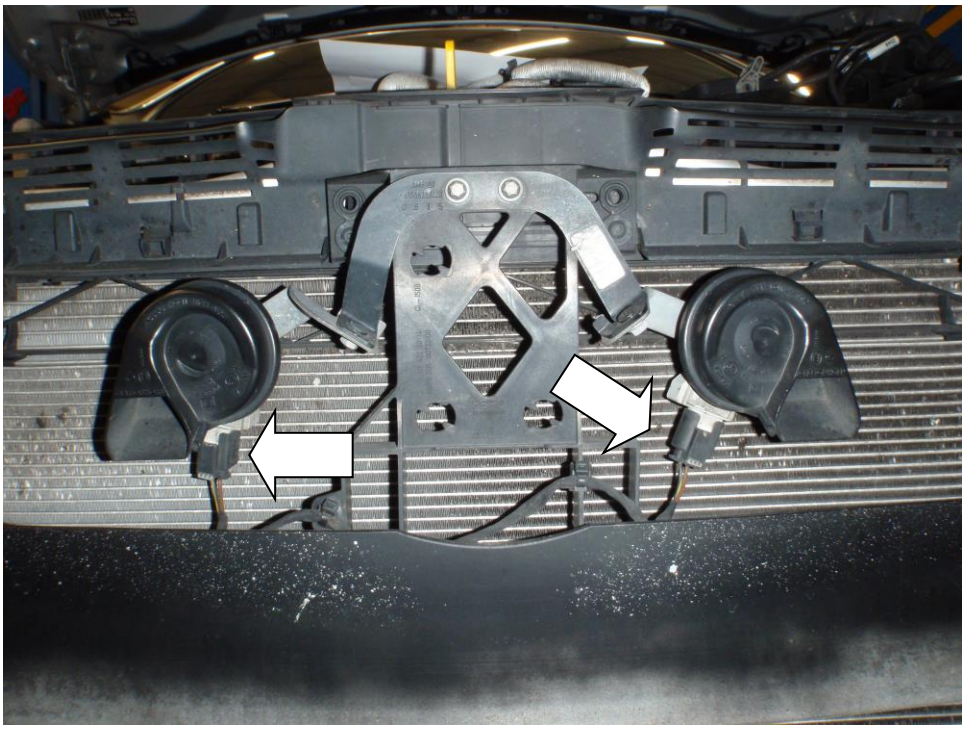
9. Using a 10mm socket, extension bar and 1/4” drive ratchet undo 2x bolts. Pull the arch liner to one side to access. Repeat the process for the opposite side.



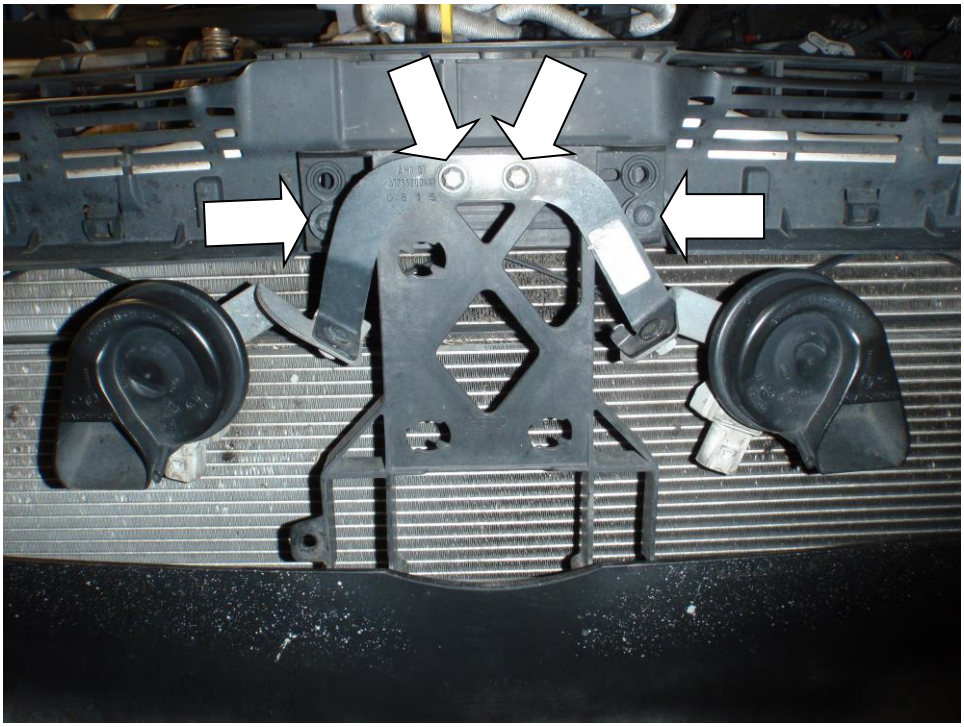
10. The next part requires two people carefully pull the bumper away from the vehicle. While one person holds the bumper, the second person needs to reach inside and disconnect the temperature sensor and large electrical connector (located on the left-hand side of the vehicle viewed from the front).



11. Disconnect the wiring to both horns.



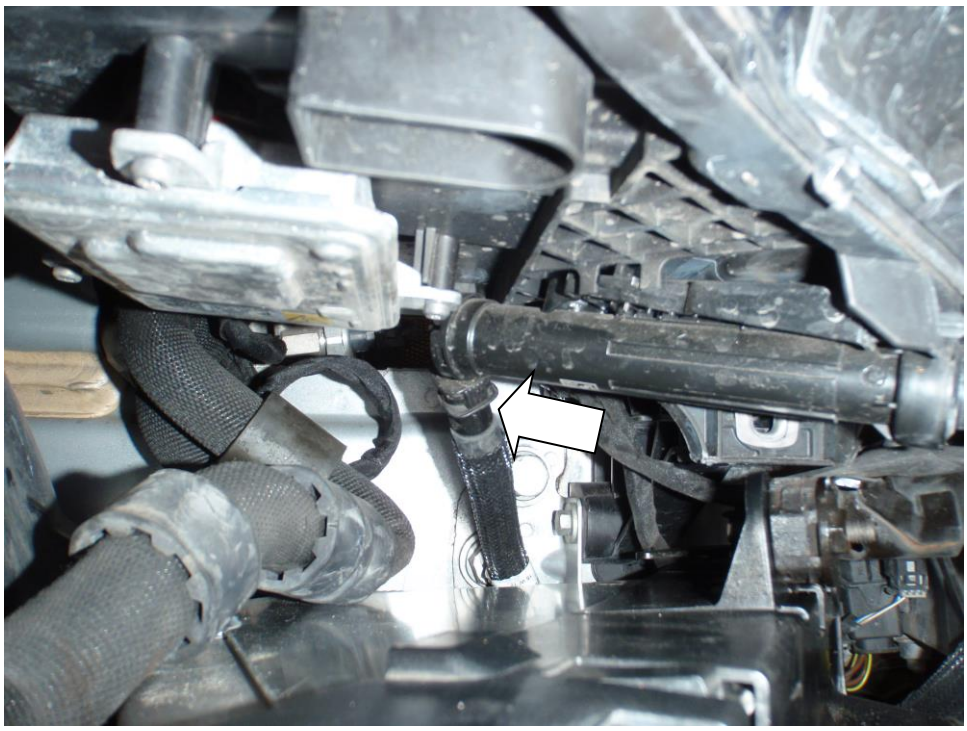
12. Using a Torx E11 socket undo 2x bolts and remove horn bracket. Using a T25 Torx Driver undo 2x Screws.



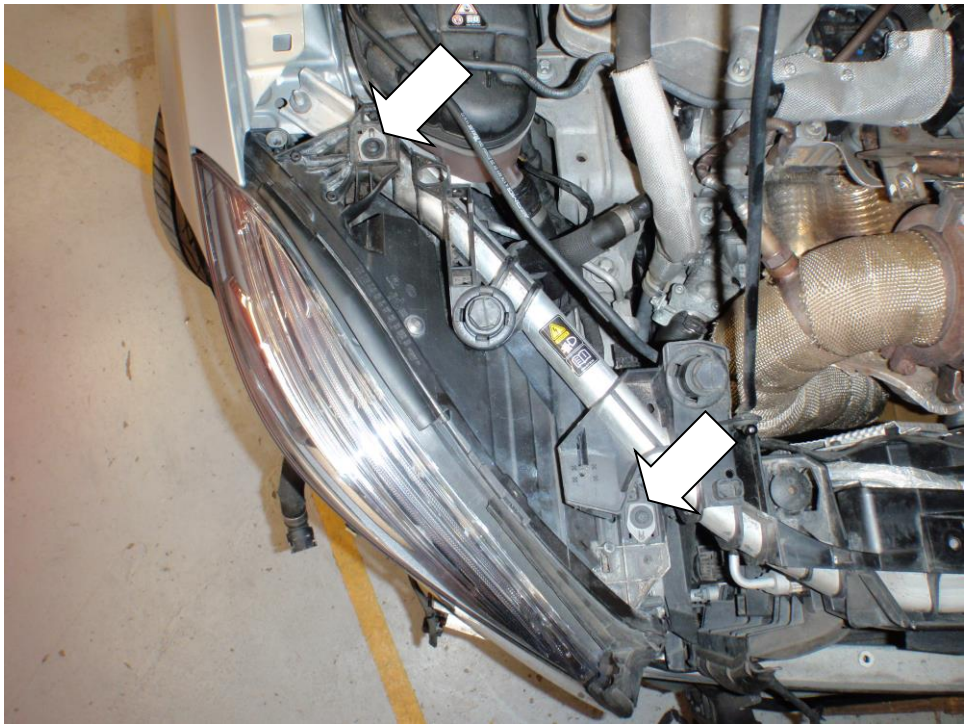
13. Disconnect the headlight washer pipe from the headlight nearest the reservoir tank and drain the contents into a suitable container.

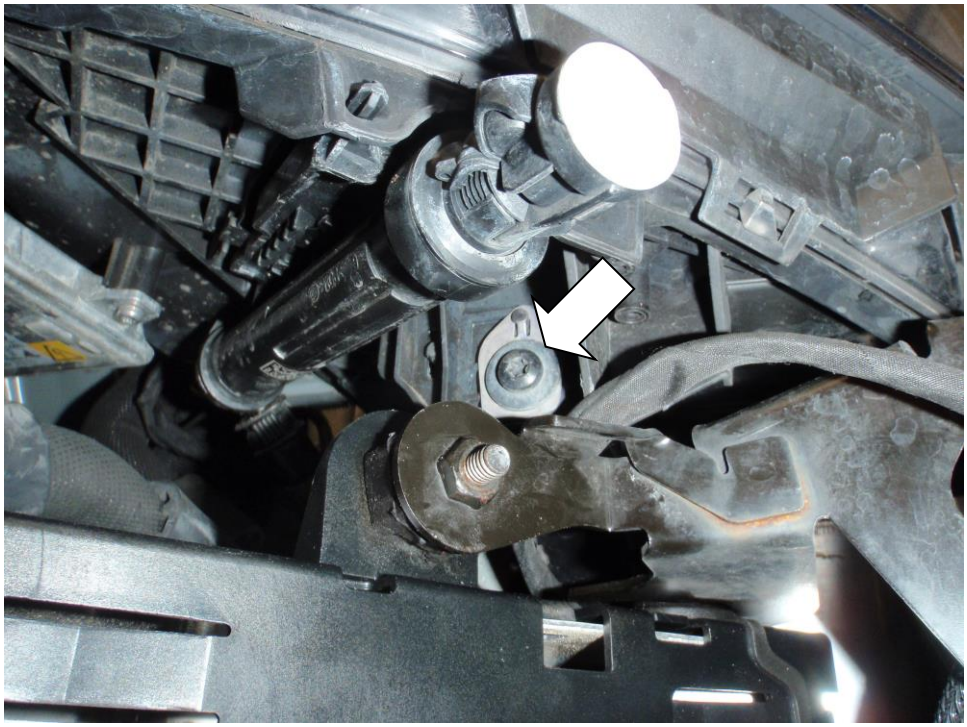


14. Disconnect the pipework to the opposite side headlight washer.

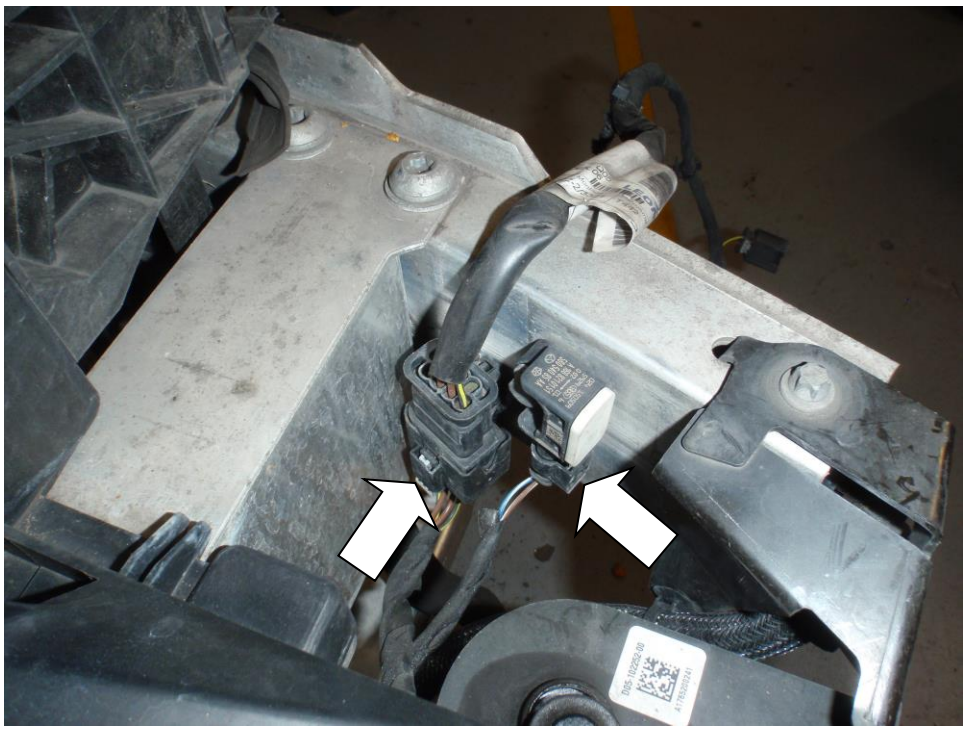


15. Undo 2x T25 Torx screws located on the top of the headlight and 1x T25 Torx screw located underneath. Carefully slide the headlight forward and disconnect the large electrical connecter located at the back of the headlight. Store the headlight in a safe place while carrying out the rest of the installation.

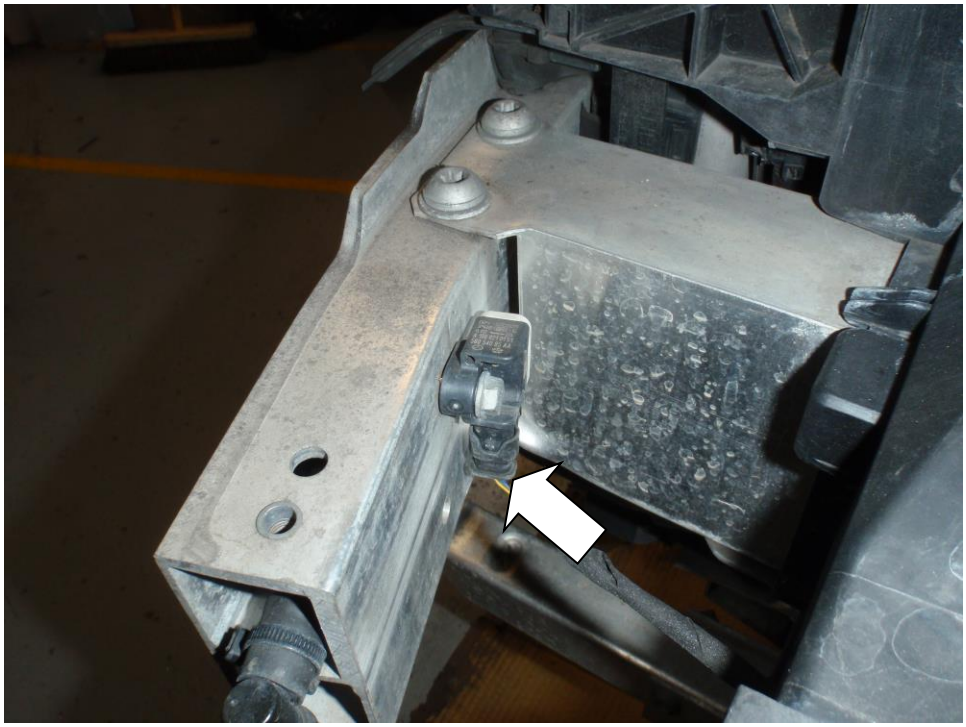




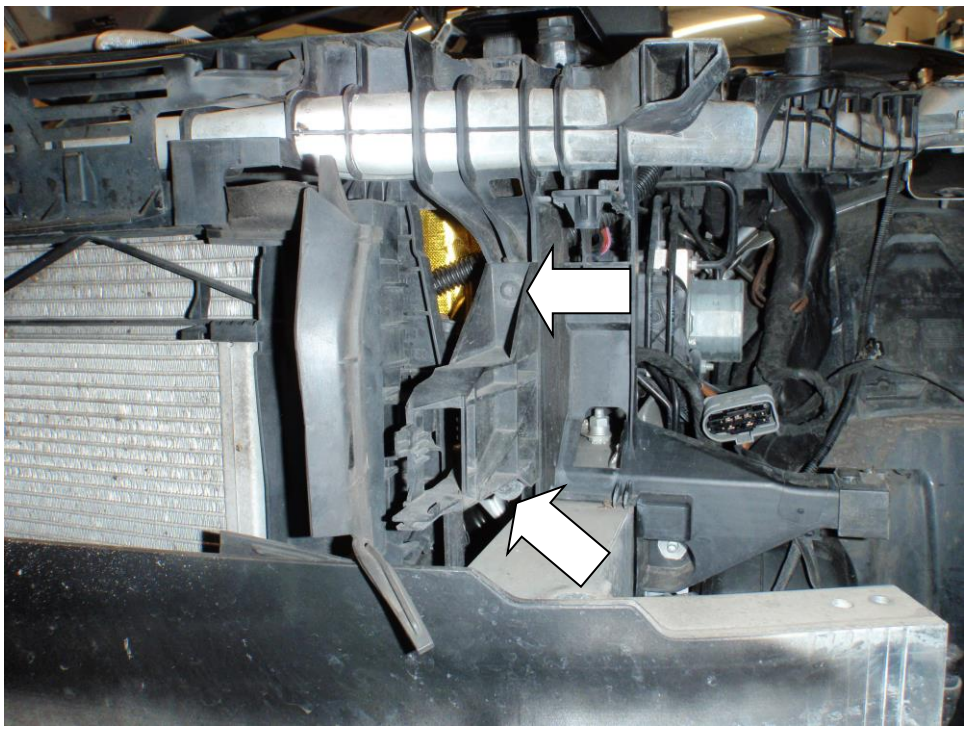
16. Ensuring that the battery has been disconnected previously, disconnect the wiring to 2x sensors.



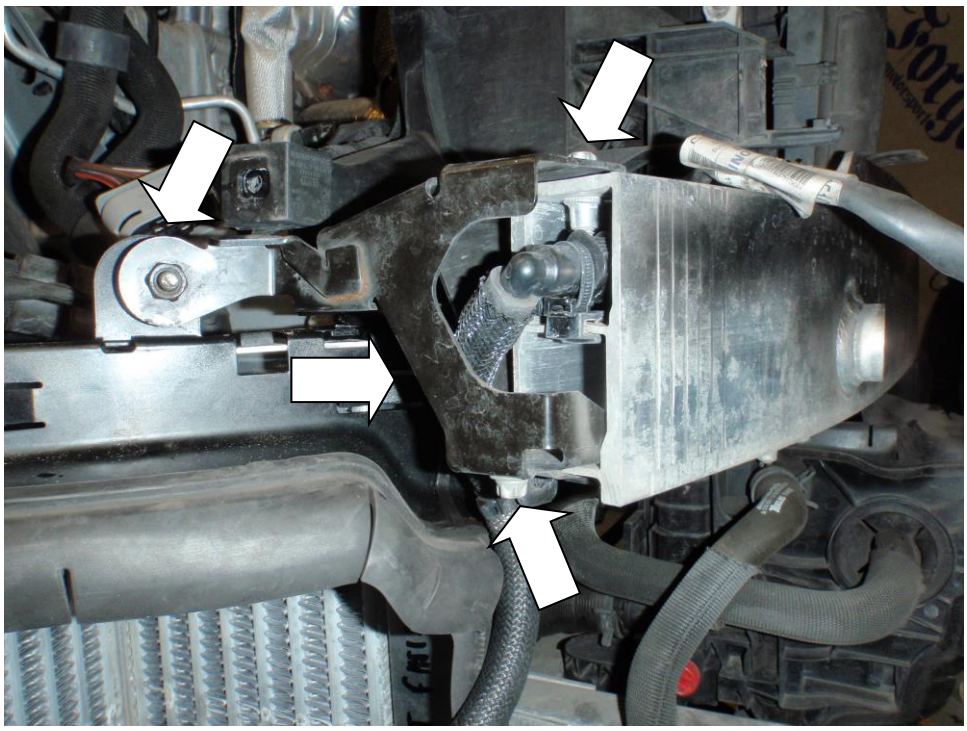
17. Disconnect the single sensor at the other end of the crash bar.



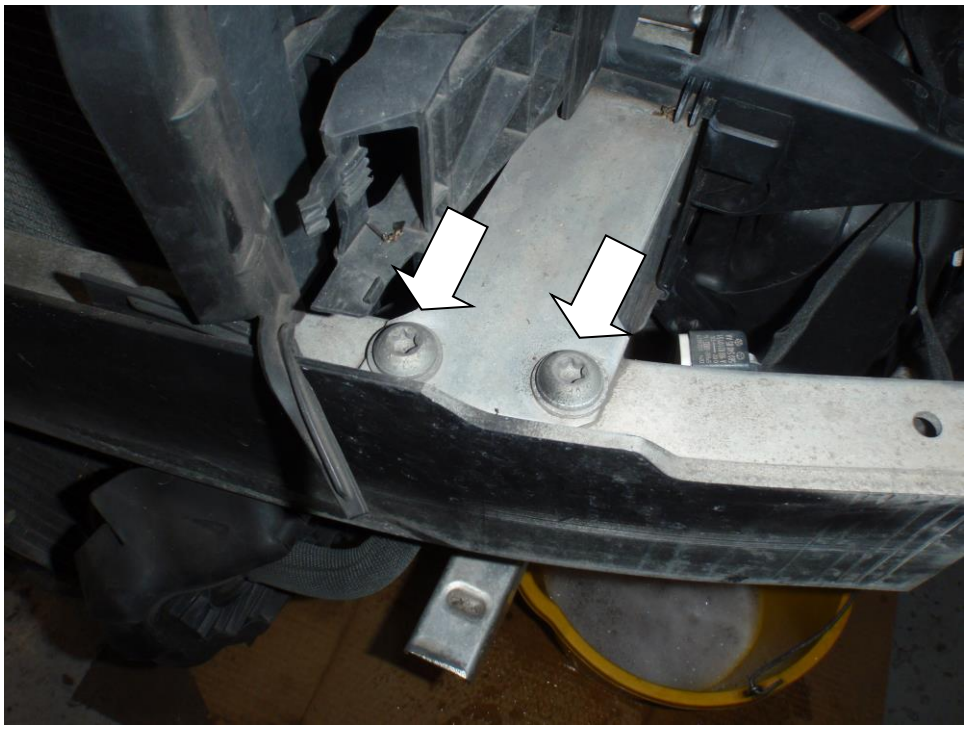
18. Undo 2x T25 Torx screws but do not fully remove. This will allow the plastic support to be pushed to one side, giving access to the inner crash bar bolt.



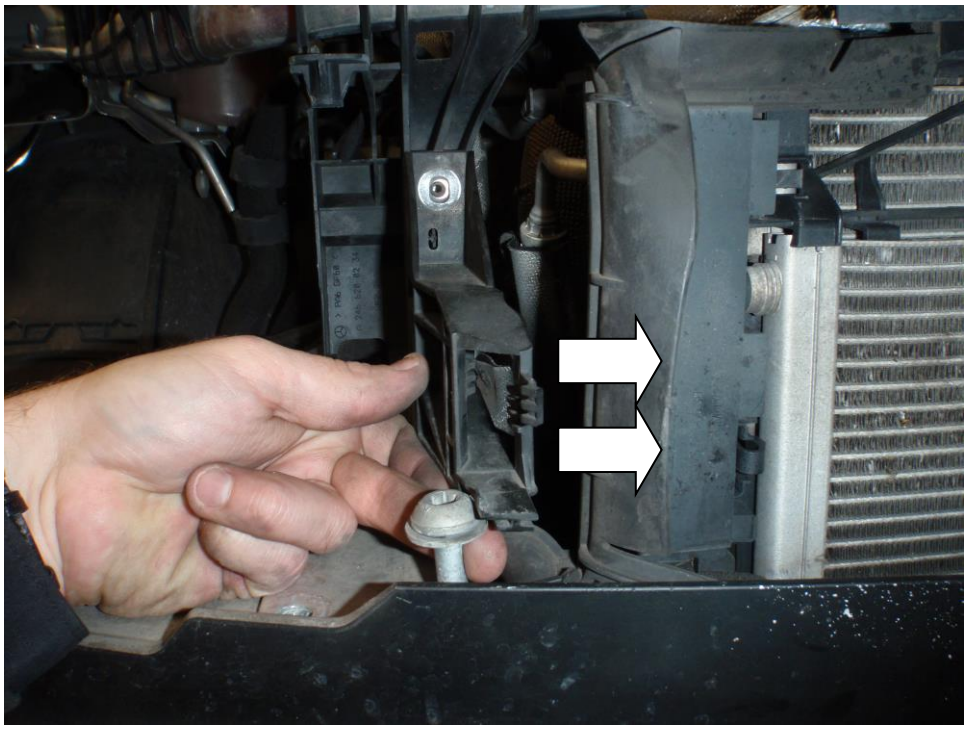
19. Undo 2x T11 bolts, 1x 10mm Nut, Plastic hose clip and remove the sidemount radiator top bracket.



20. Undo the 2x T50 crash bar bolts on both sides.



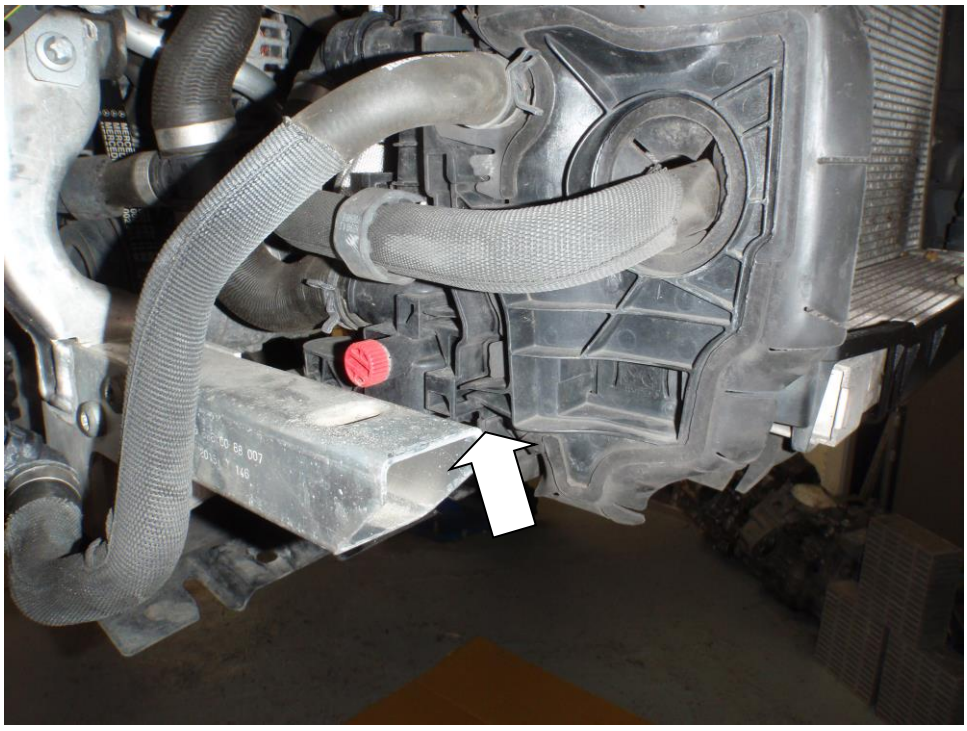
21. Push the plastic support to one side to remove inner bolt.

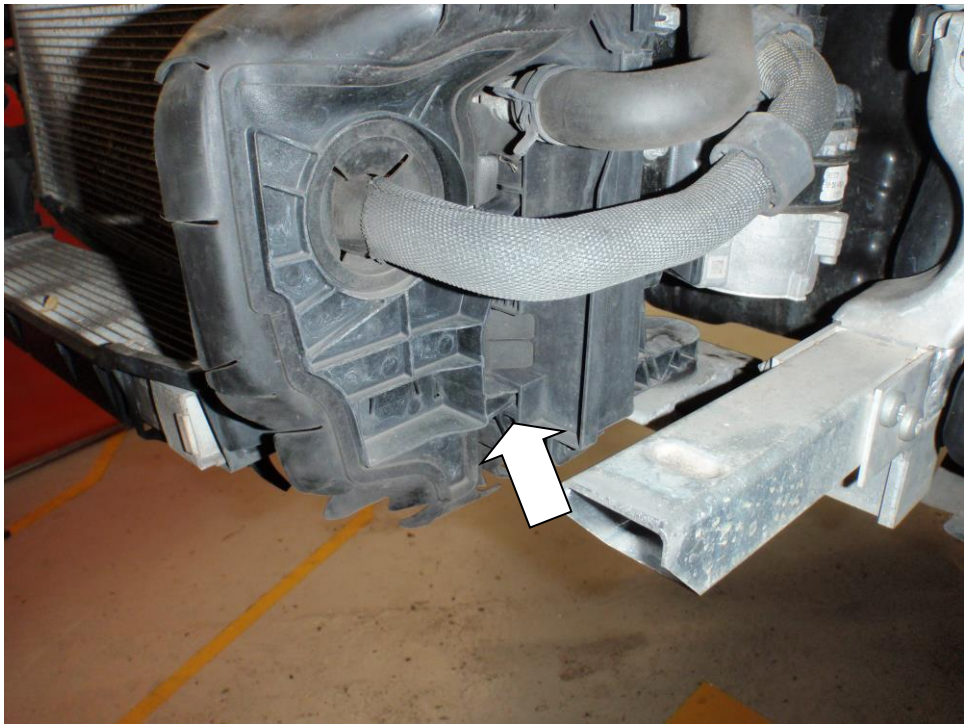


22. Carefully remove the crashbar from the vehicle.



23. Unclip the horizontal radiator at both ends. Pull the bottom edge forward and downwards to release it.

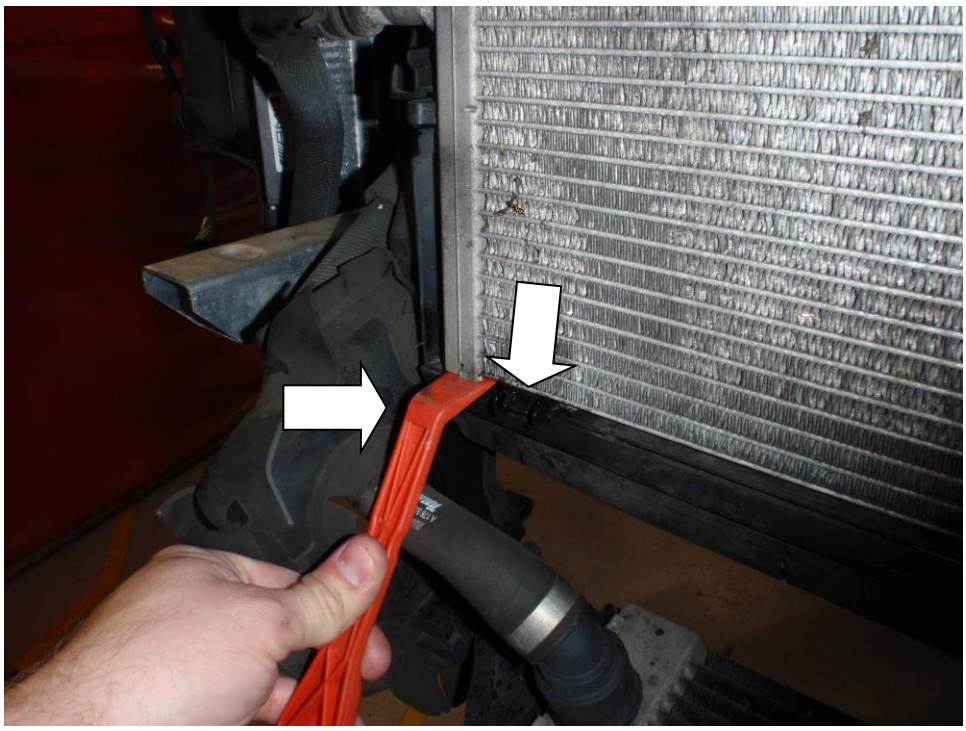




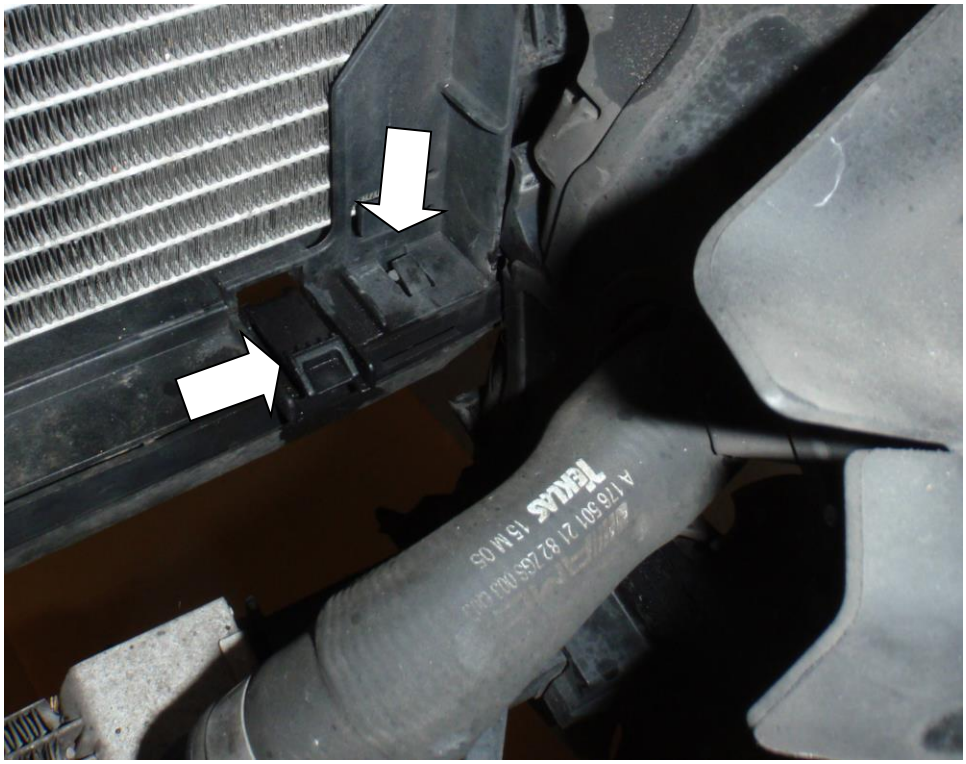
24. Using a hose clamp removal tool or similar disconnect the hose to one of the centre chargecooler radiator pipes and drain the coolant into a suitable container. Repeat for the other side.



25. Release the lower retaining clip by sliding a flat panel clip or similar between the plastic cowl and the radiator end tank. At the same time, unclip the secondary retaining clip.

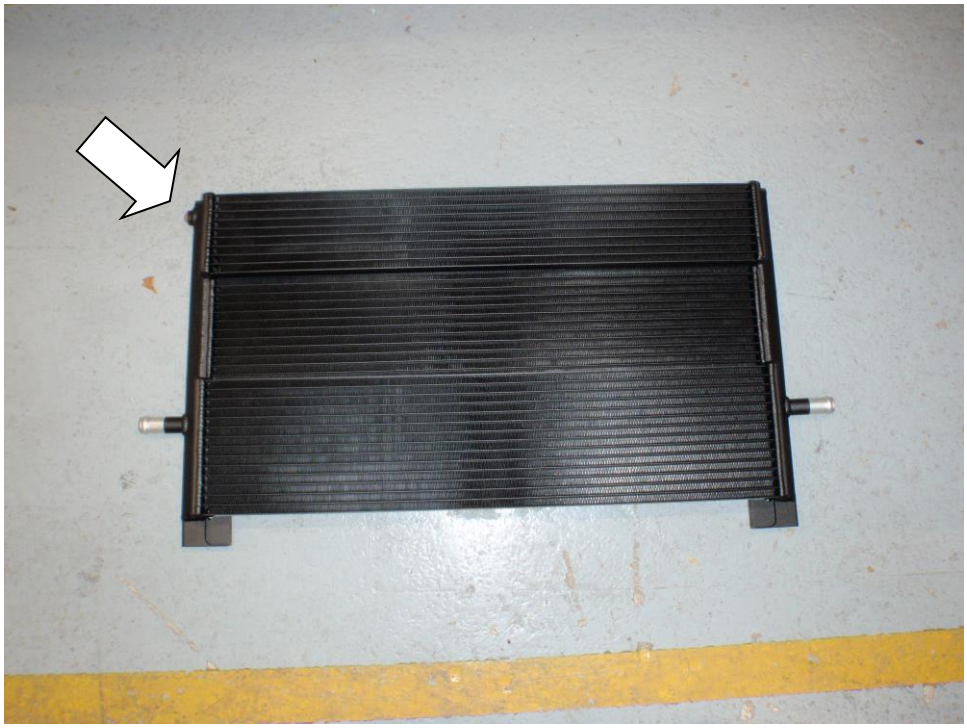


Clips with radiator removed

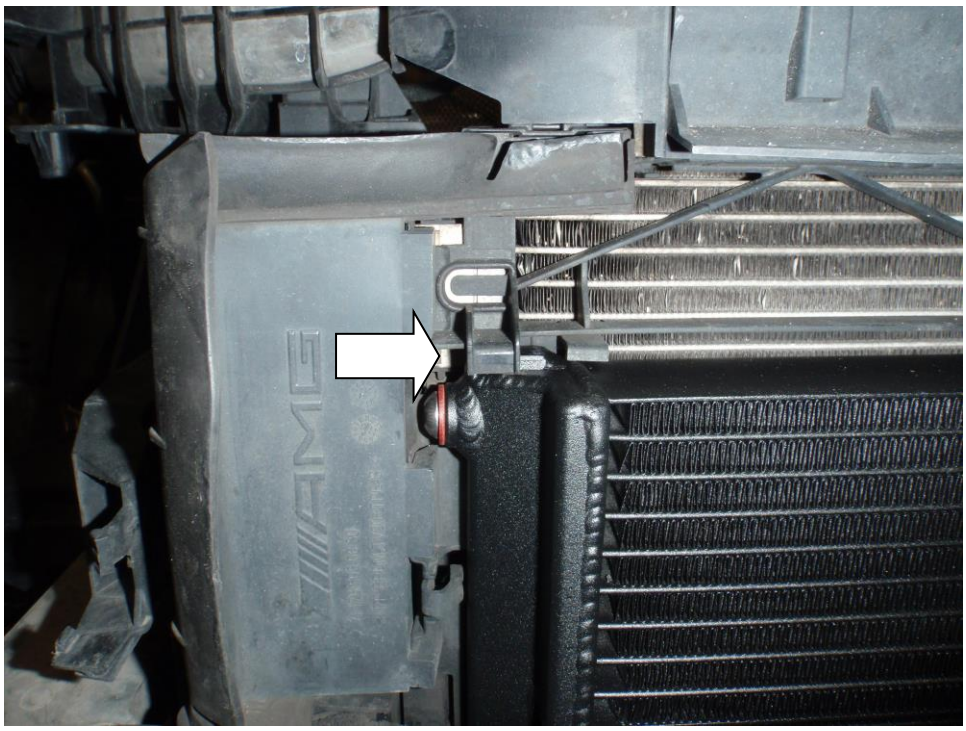


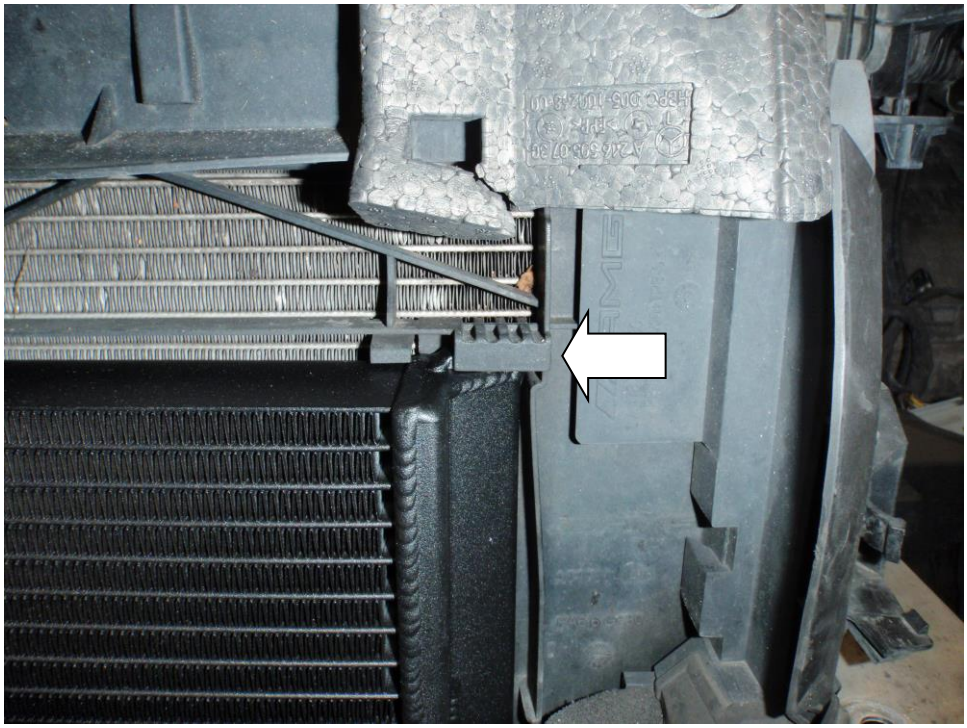
26. Pull the bottom of the radiator forward to release it from the plastic cowl.

27. Ensure that button head M8 X 12 bolt and fibre washer are fitted to the radiator and are undone a few turns.

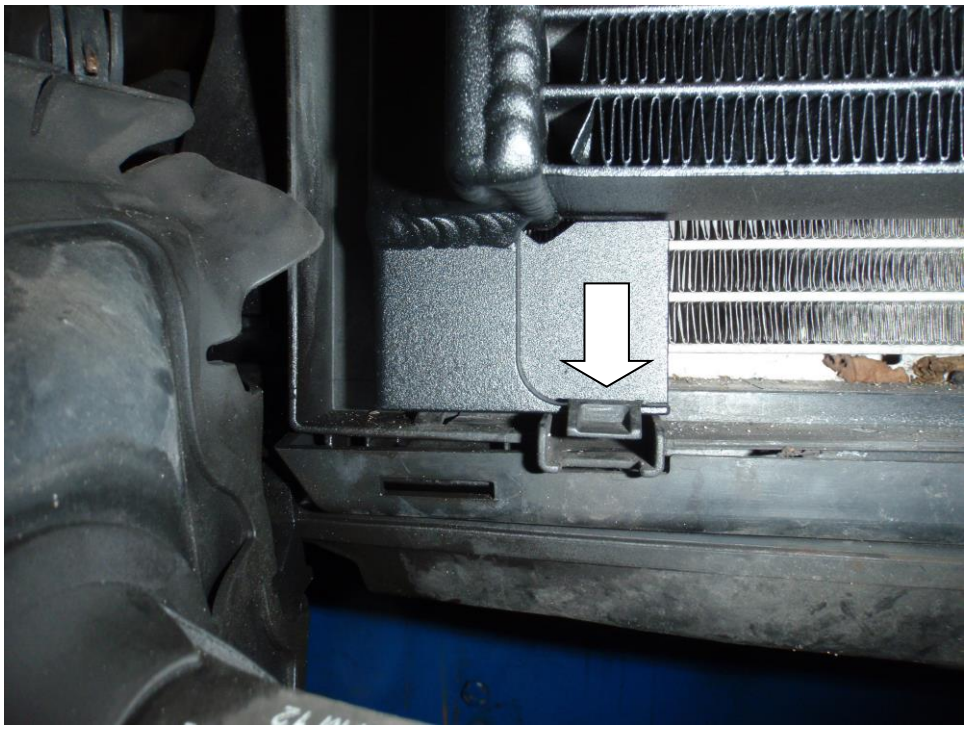


28. Carefully slide the radiator into position so that the top mounts engage.



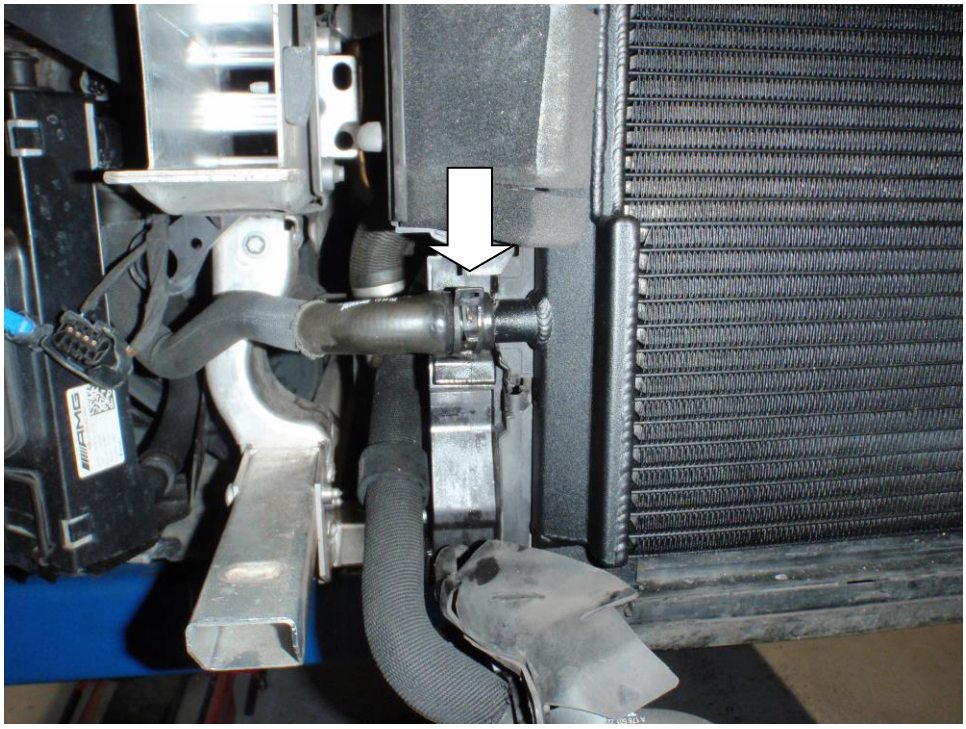


29. Push the bottom of the radiator firmly into position, ensuring all of the plastic clips engage.



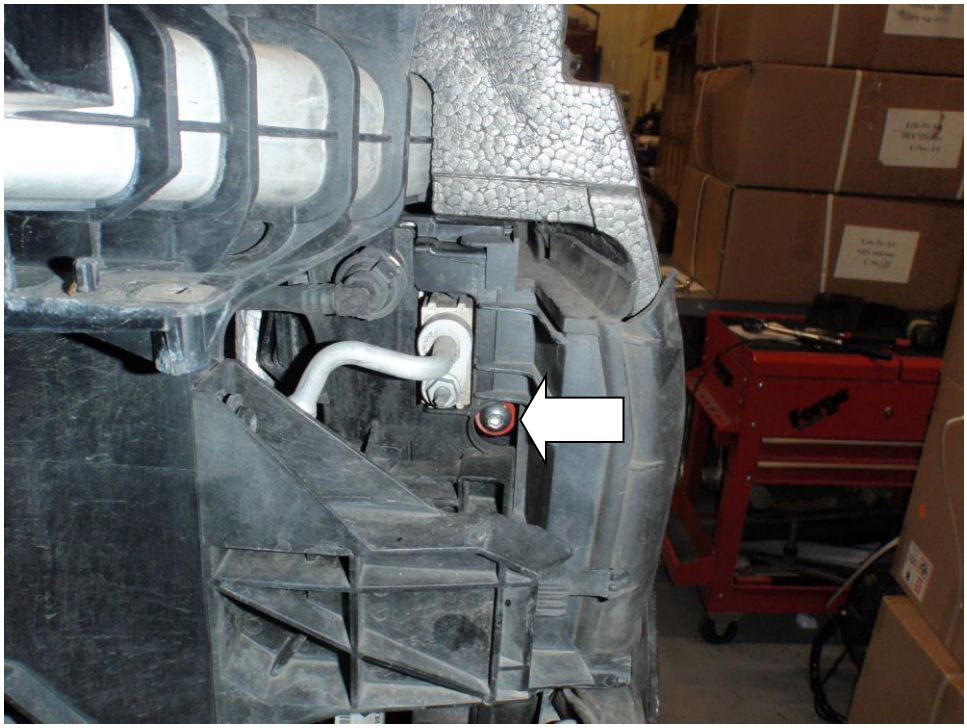
30. Using silicone spray, if needed refit and secure the OEM hoses to the inlet and outlet pipes.



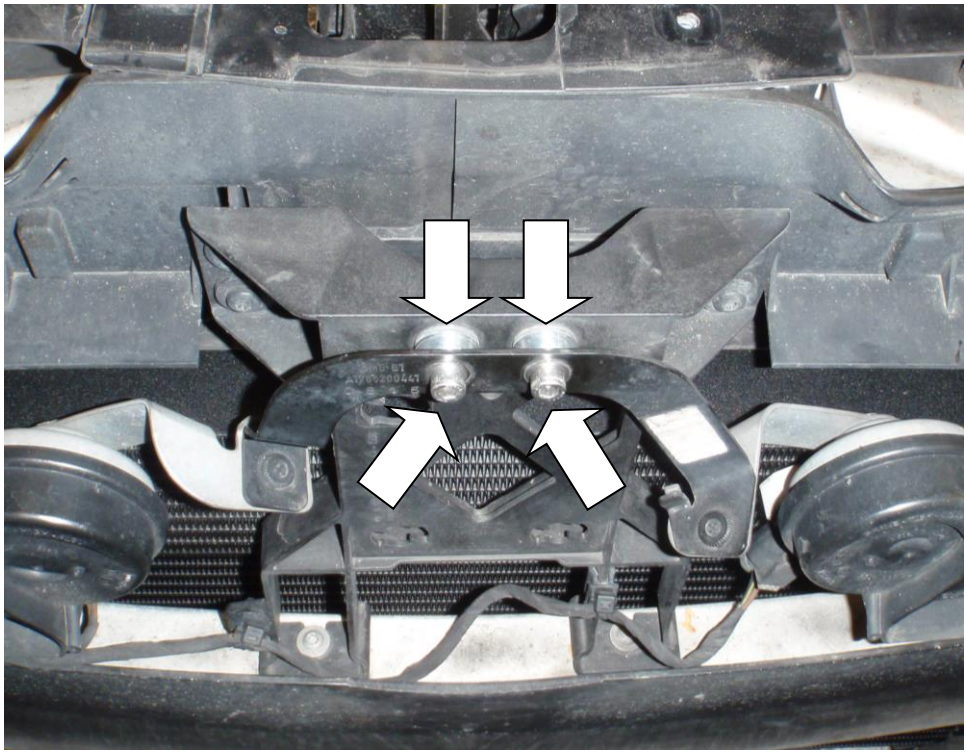


31. Refill the chargecooler reservoir tank with suitable coolant to the correct level and bleed the centre radiator before refitting the bumper.





32. Re-assemble your vehicle. Using the 2x M6 x 30mm Allen cap bolts, 6mm washer and spacers provided refit the horn bracket as shown to give extra clearance for the top of the chargecooler radiator.



33. After running the engine up to operating temperature, allow the car to cool before checking and topping up the chargecooler coolant reservoir if required.

34. Your installation is now complete.

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