

# Vauxhall Astra VXR Mk6 (J) Intercooler Fitting Instructions

## Tools Required:

- Ratchet and Socket Set
- Trim Removal Tool or Flat-Blade Screwdriver
- T20 Torx Socket
- E12 E-Torx Socket
- Drill and 4mm Drill Bit
- Jubilee Clamp Flexi-Driver
- Cable Ties
- Rivet Gun and Rivets

## Kit Contents:

- 1x AIRTEC Motorsport Intercooler
- 2x Side Mount Brackets
- 1x Top Mount Bracket
- 4x Alloy Pipework
- 5x Pro Hoses Silicone Hoses and Jubilee Clips
- 2x Rubber Grommets
- 5x M6x16mm Socket Head Bolts
- 3x M6x12mm Socket Head Bolt
- 12x M6 Pan Washers
- 6x Nyloc Nuts
- 1x M6x6mm Socket Head Bolt
- 1x M6 Mudguard Washer



PLEASE THOROUGHLY READ THESE INSTRUCTIONS AND MAKE SURE YOU ARE FAMILIAR WITH THE STEPS BEFORE CARRYING THEM OUT

# Instructions:

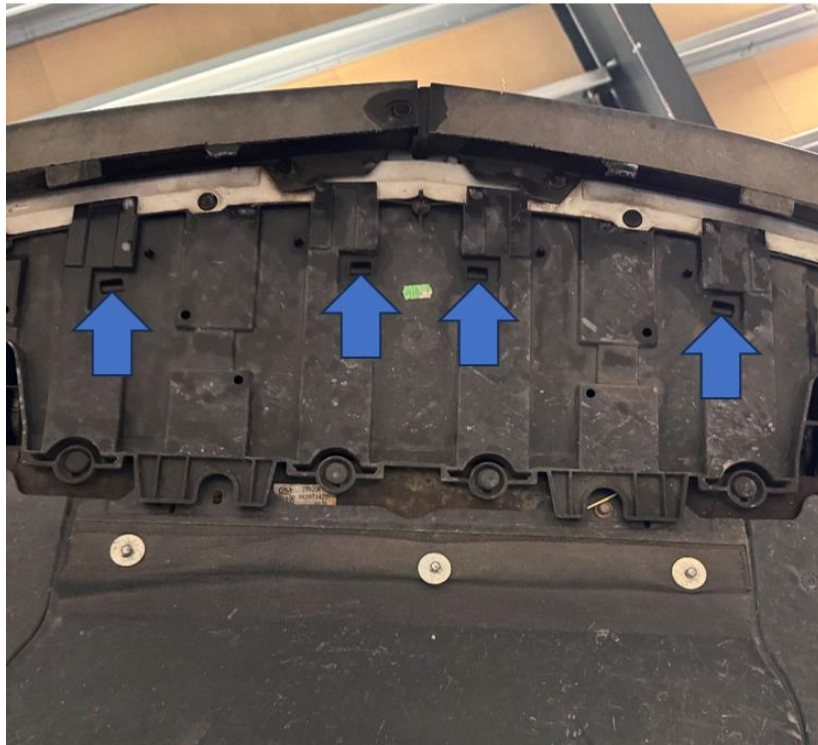
1. Open the bonnet and remove the four T25 Torx bolts along the top of the bumper.



2. Raise the vehicle into the air and locate and remove the four T25 Torx bolts fixings in each arch liner, pull back on the liner to reveal the T25 Torx bolt attaching the bumper to the arch.



3. Under the car, locate the four plastic clips that secure the front part of the undertray and unclip them using a trim removal tool or similar.

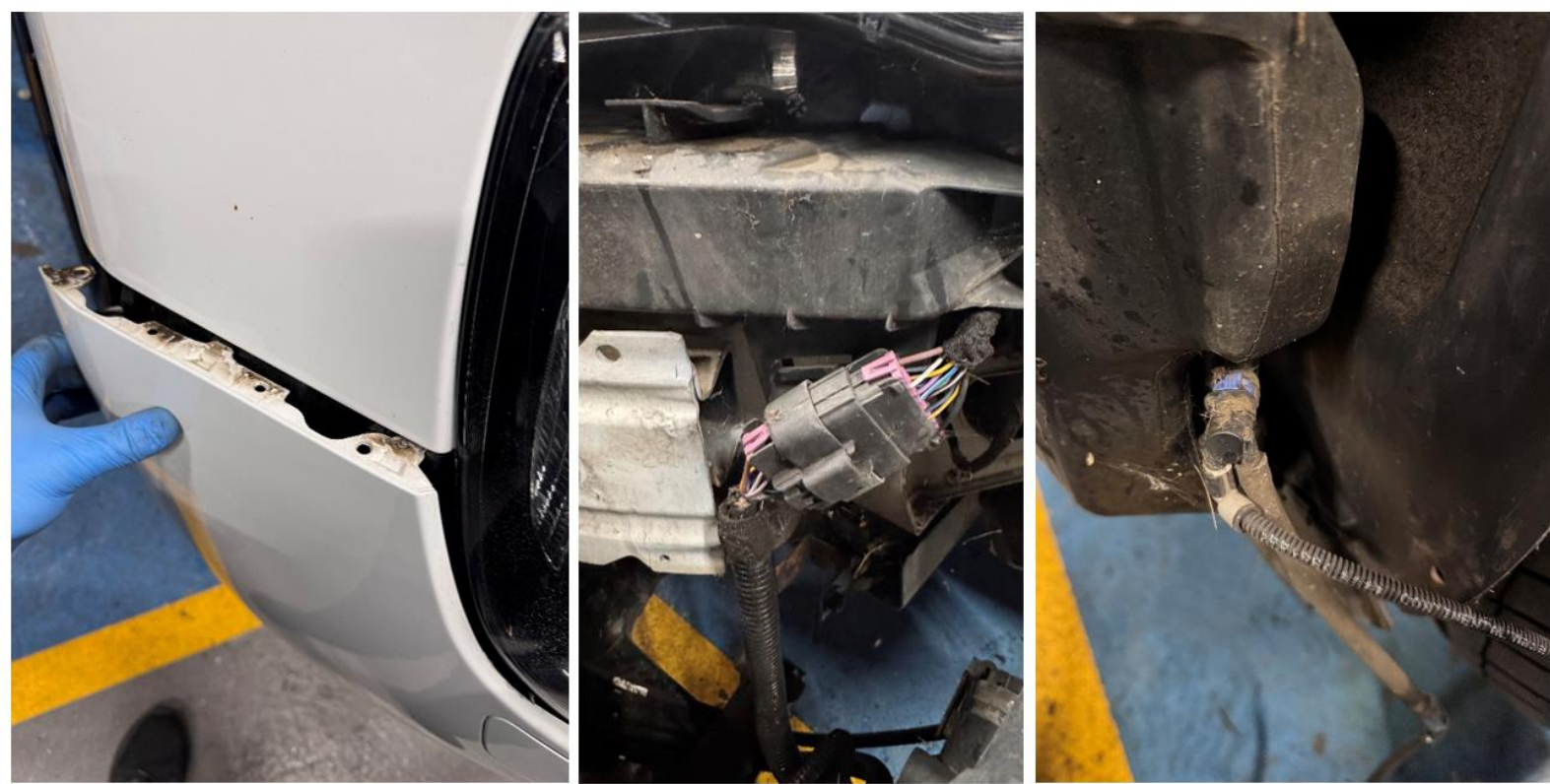


4. Once the undertray is removed, in each corner locate the E12 Torx bolt and remove it.





5. To remove the bumper, firmly but carefully pull on each edge to detach it from the car. On the passenger side, locate the wiring multiplug for the front bumper and undo along with the headlight washer pipework. We advise having a suitable container to hand to catch any spilt fluid.

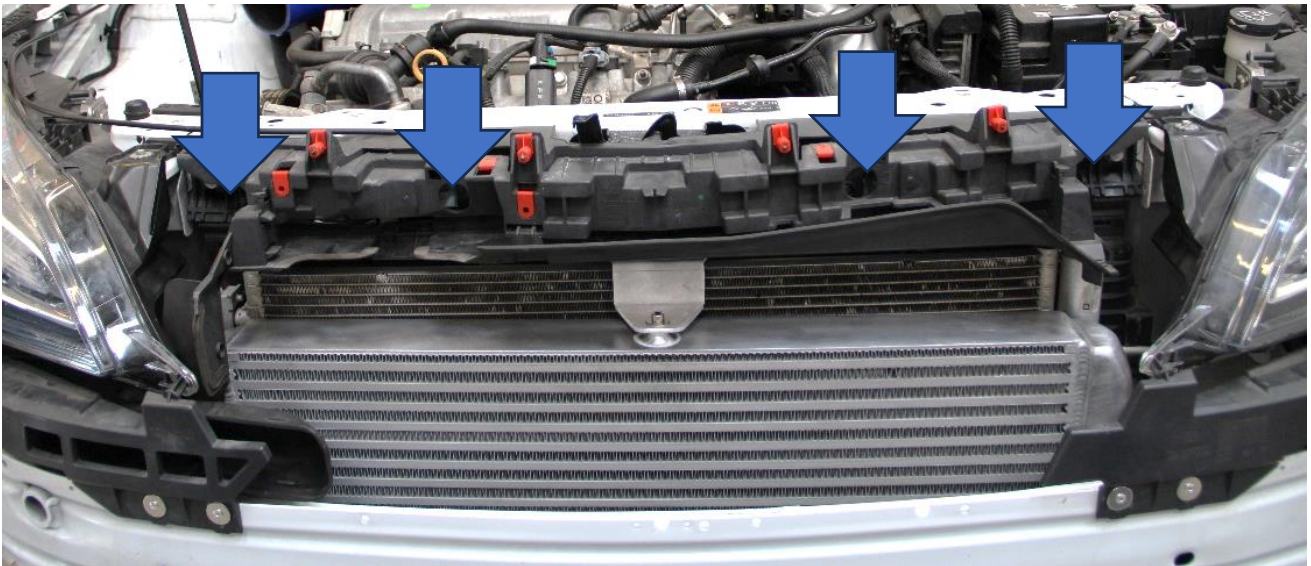


6. Remove the plastic air guides both sides by unclipping them and rotate them free.

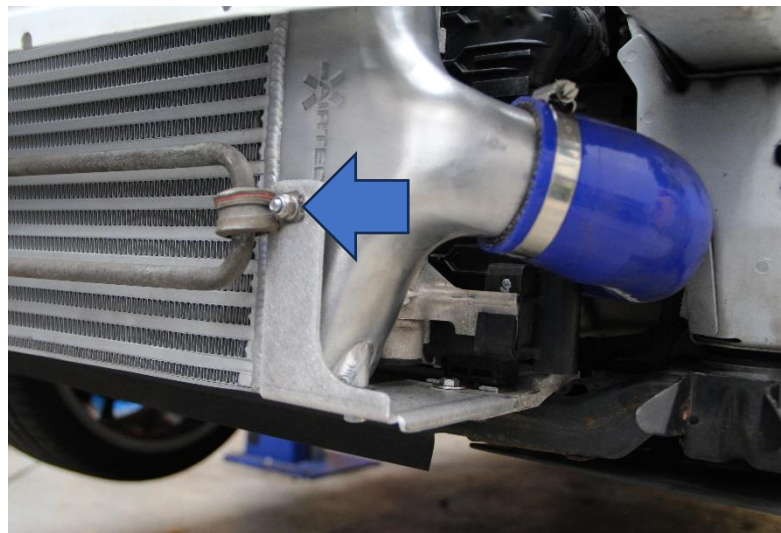
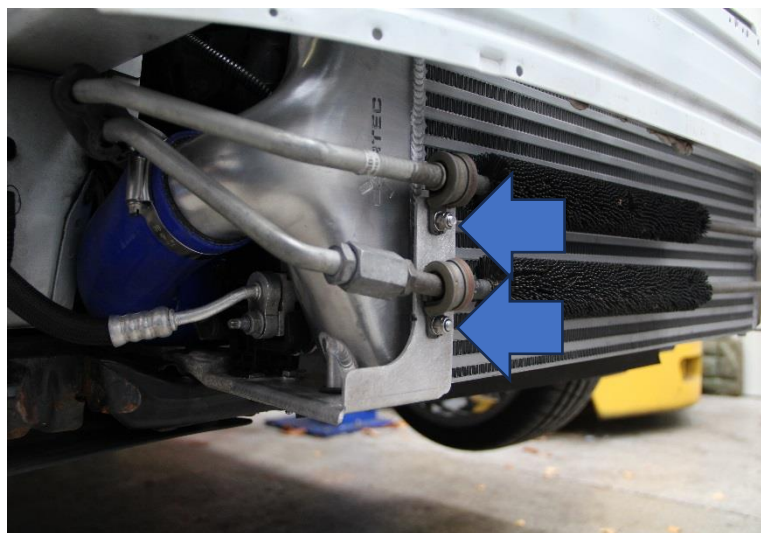




7. Remove the four bolts on the lower plastic front panel and unclip.



8. Remove the three nuts securing the power steering cooler and hang from it from the crash bar using a strong cable tie. **Please note:** this is not a standard intercooler shown.

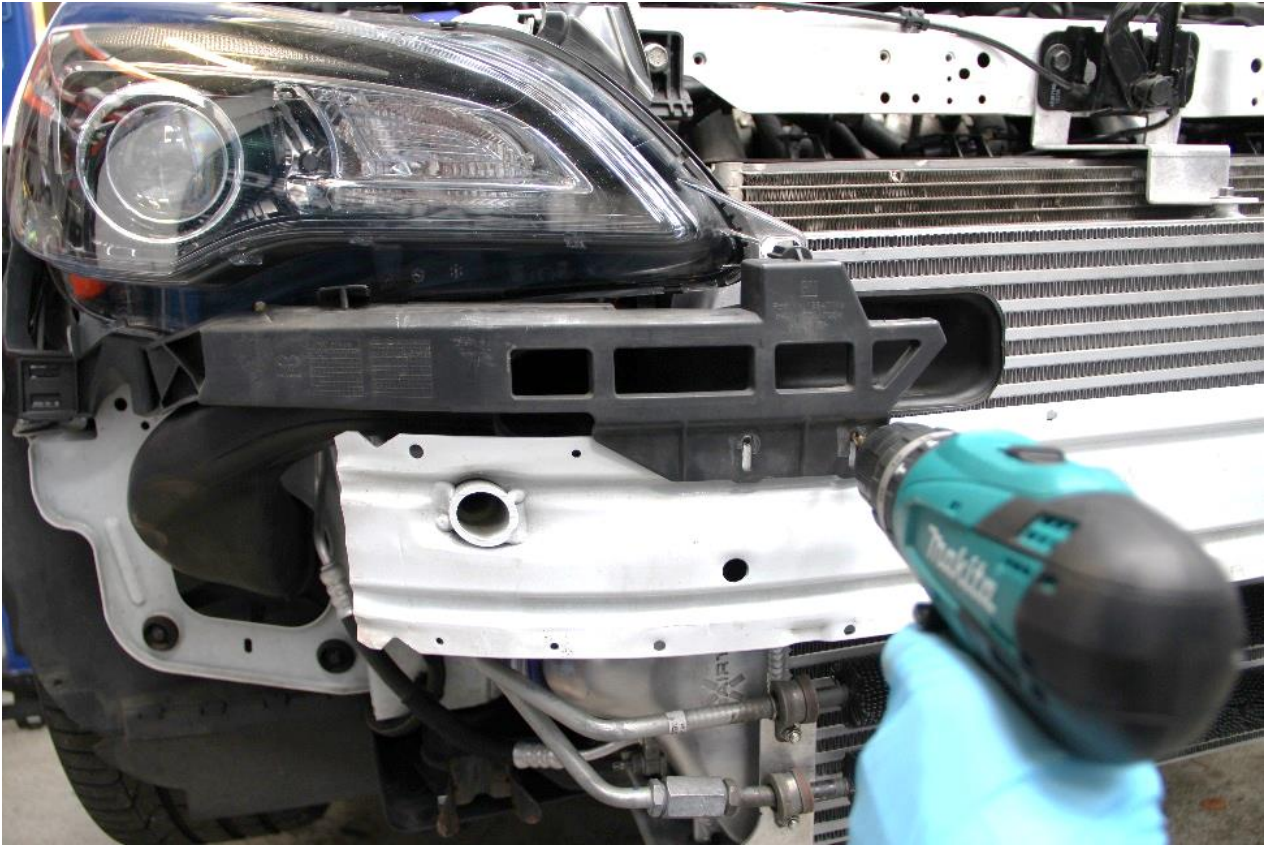


9. Remove the two bolts securing the power steering cooler brackets.

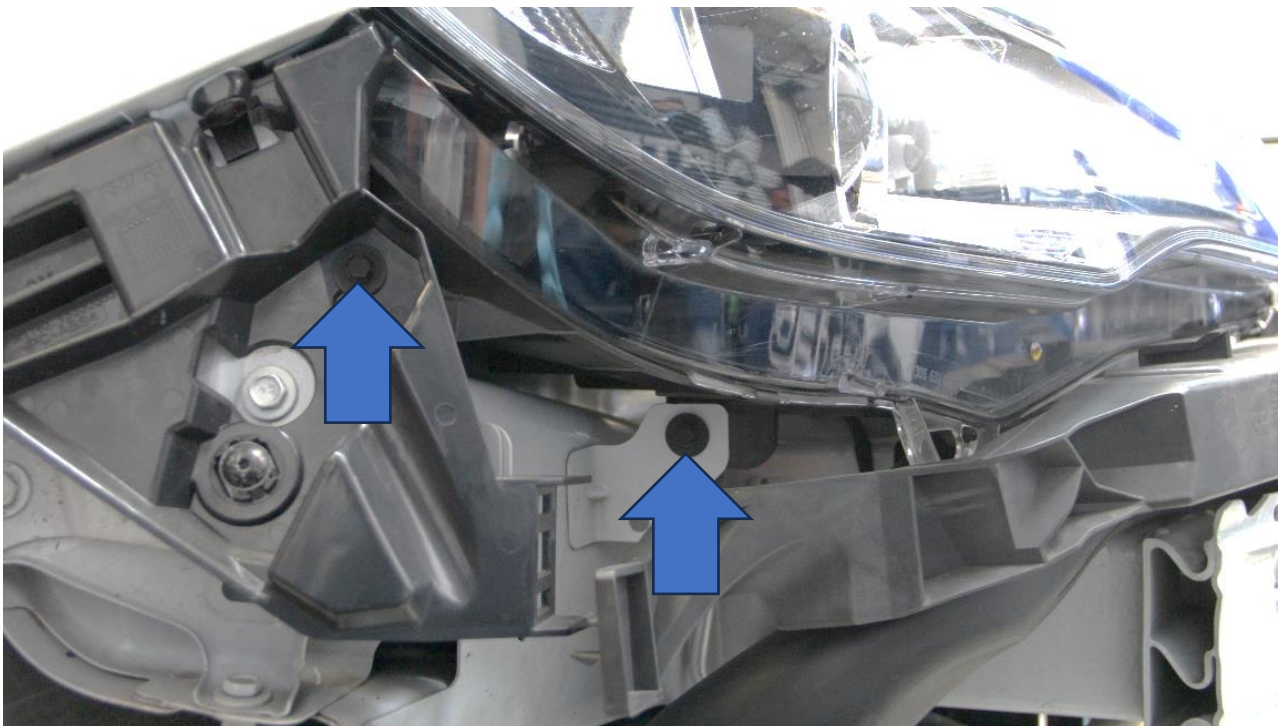




10. Carefully remove the rivets under the headlight supports using a 4mm drill bit and then unclip them from the headlight. You can then unclip the back of both headlights.

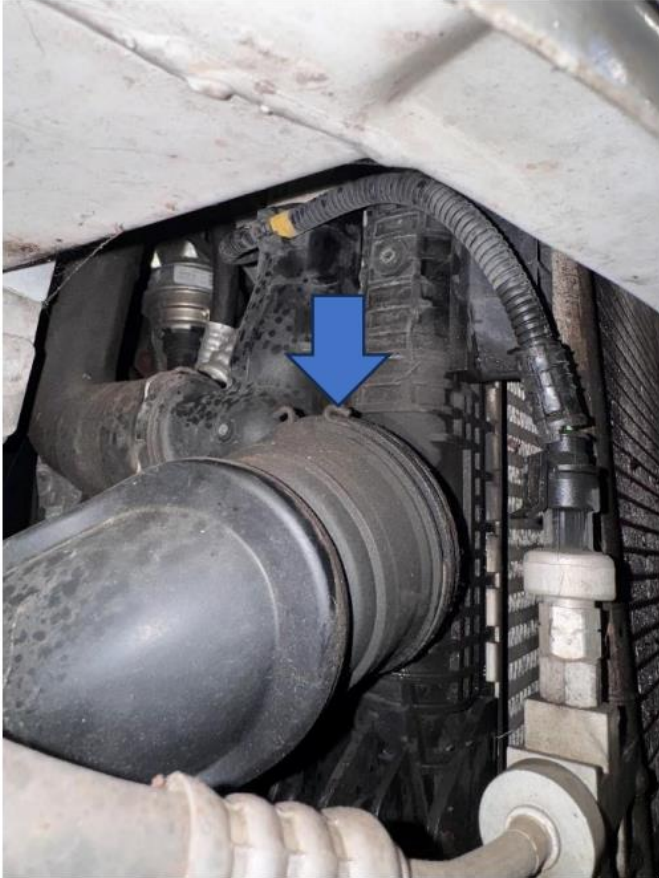


11. Remove the two bolts under each headlight. Then lift the headlight upwards to carefully release it. To prevent damage to the headlights, store them in a safe place away from the working area.

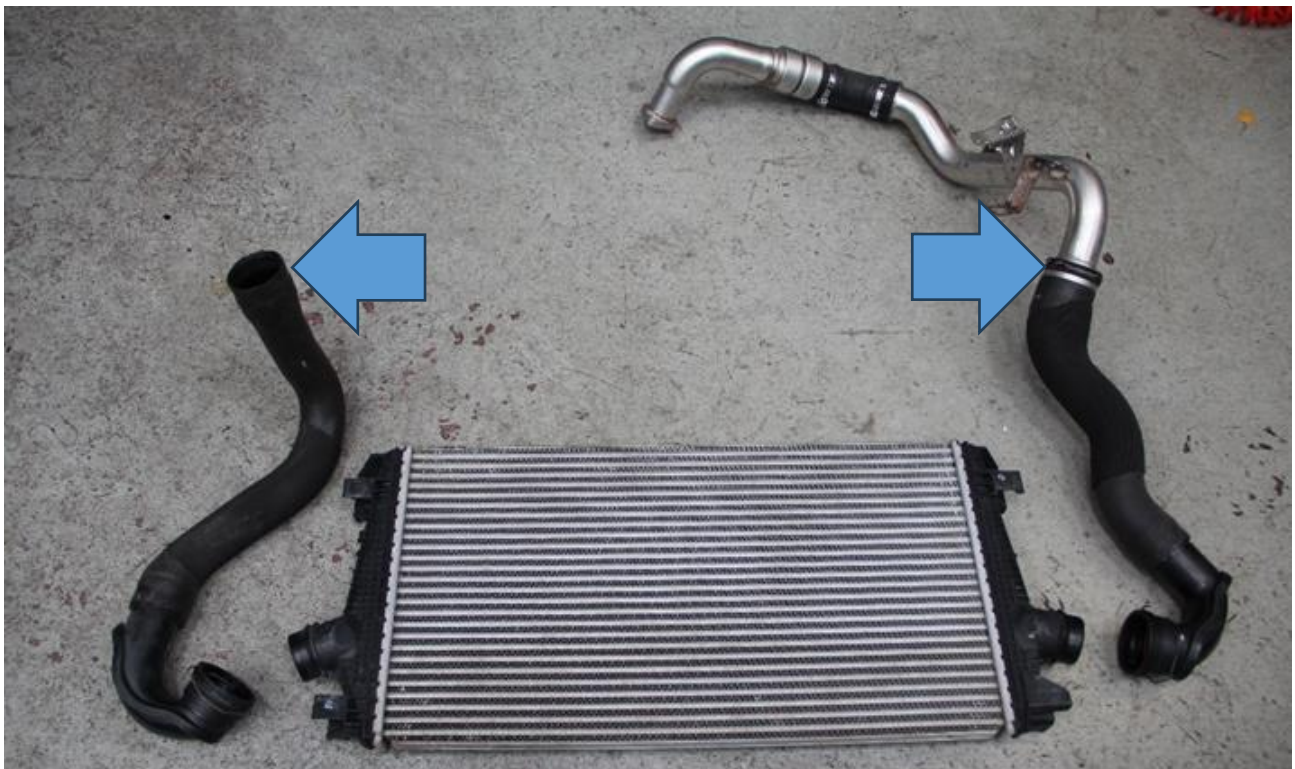




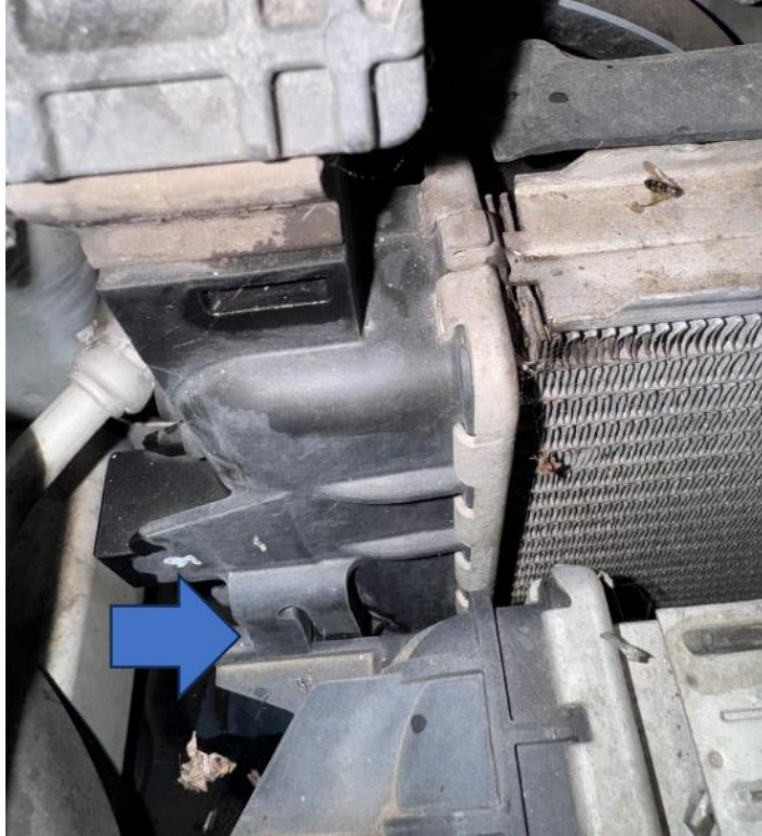
12. Under the car, remove each of the standard boost pipes from the intercooler by releasing the clips using a flat-blade screwdriver.



13. Follow each boost hose up and loosen the jubilee clips securing it in place, as highlighted below in the picture of it removed.



14. Unhook the intercooler from the radiator and lift it upwards and out. Take care not to damage the fins on both the air-con radiator and water radiator.



15. Reinstall the air-con radiator onto the mountings on the radiator that used to hold the intercooler.

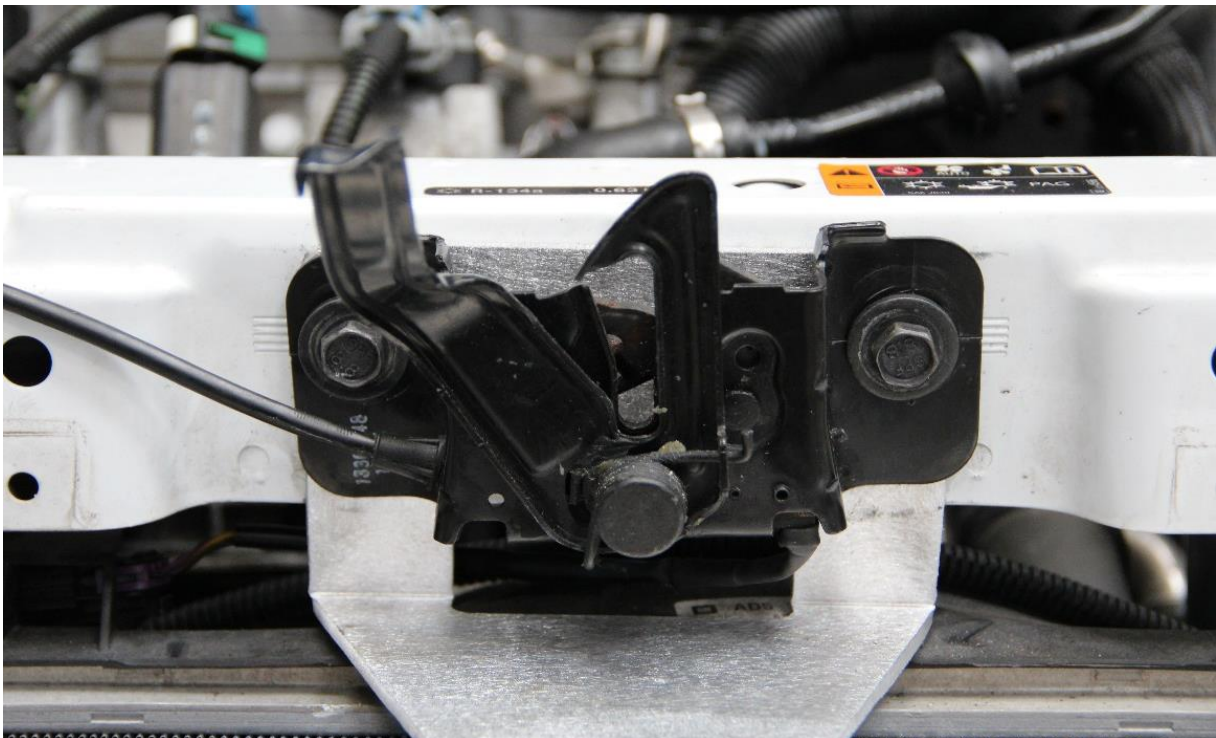




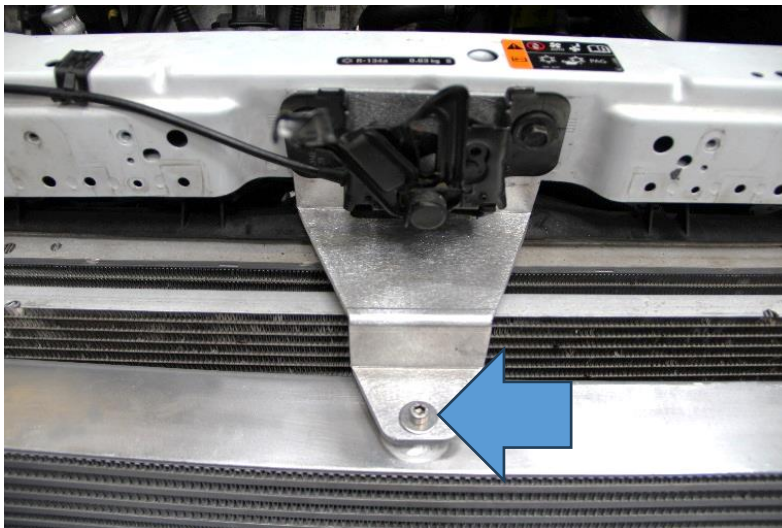
16. Locate the new intercooler in place by fitting the lower mounting brackets using the two supplied M6x16mm bolts with Nyloc nuts and washers both sides. The intercooler will then push into the rubber mounting grommets. Bolt the power steering mounts to the new brackets using the three supplied M6x12mm bolts and Nyloc nuts with washers both sides. It is easier to get the boost pipes into position before fully tightening power steering clips.



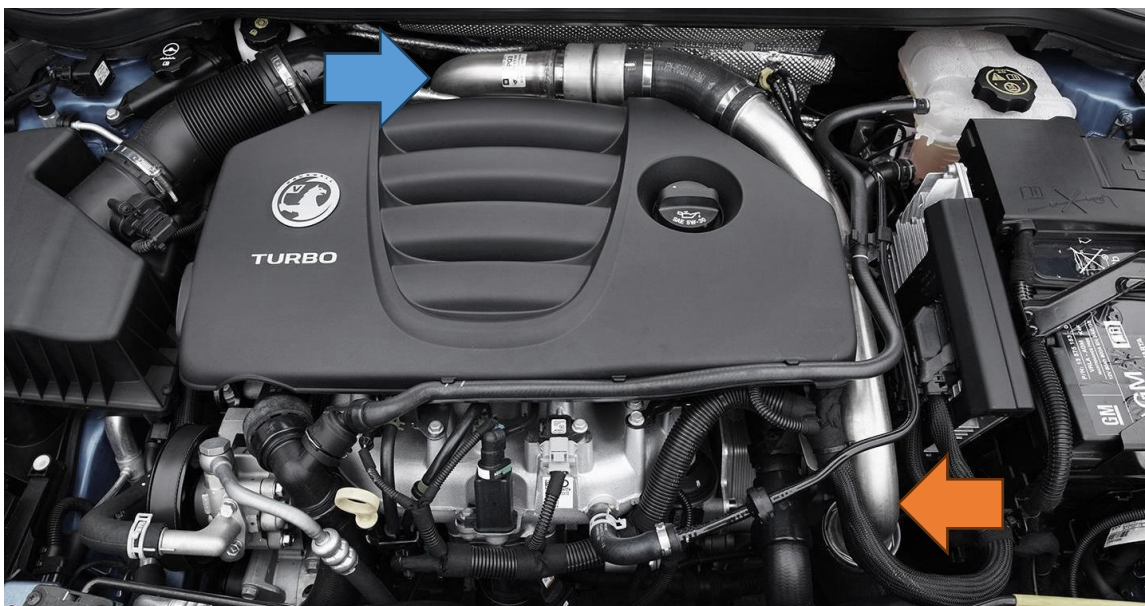
17. Undo the two bolts on either side of the bonnet catch.



18. Trace the wiring back from the bonnet catch and unplug it. Then install the supplied intercooler top mount behind the catch and refit it. You can then secure the bracket to the intercooler with the bolt and washer provided.



19. Now remove the engine cover by pulling up on one corner to release it from its rubber mounts. Then remove the top pipe by undoing the two E12 Torx bolts on the turbo side (blue arrow) as well as the bolts (orange arrow) on the mounting bracket the other side.





20. For the hot side of the pipework going from the turbo to the intercooler, please make note of the picture for reference.



21. Start fitting this side by removing the rubber seal from the original turbo outlet pipe removed in Step 19 and carefully insert it into your new AIRTEC Motorsport turbo outlet pipe. Then fit the outlet pipe using the two supplied M6x16mm Socket Head bolts provided. **Do not fully tighten yet to allow movement.**

You can then fit the supplied 45-degree hose with jubilee clip, followed by the top pipe, as shown. Secure in place with the supplied M6x16mm Socket Head bolt and Nyloc nut (blue arrow).



22. Now fit the 90-degree silicone hose onto the intercooler and attach to the new top pipe with the supplied jubilee clips. Once happy with the fitment, fully tighten all bolts and clips.



23. For the cold side of the pipework going from the throttle body to the intercooler, please make note of the picture for reference.





24. Start fitting this side by connecting the supplied silicone reducer onto the throttle body with the supplied jubilee clips. Then install the remaining alloy pipework and silicone hoses, as shown and connect it to the intercooler with the supplied jubilee clips.



25. Finally, check all hose clamps and fixings are correctly tightened and in the correct position. You can then refit the headlights by riveting them back onto the crash bar and then refit the bumper in reverse of removal.

