



## AUDI TT MK3 TFSI PERFORMANCE INTERCOOLER INSTALLATION



### 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.

3mm Allen key

Flat bladed screwdriver

Please thoroughly read through 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 the risk of 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 the front wheels.
2. Using the T20 torx drive, remove the two fasteners either side of the duct for the airbox and remove.



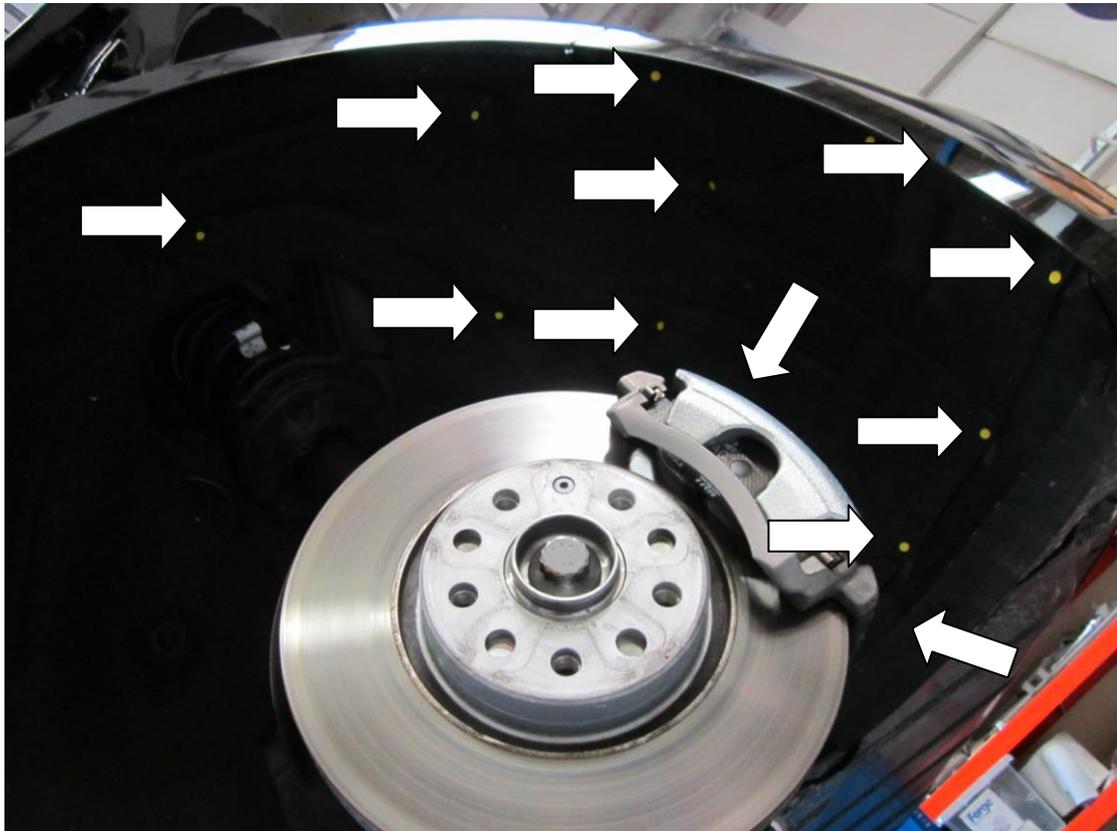
3. Remove the 6mm vac hose from the side of the airbox.



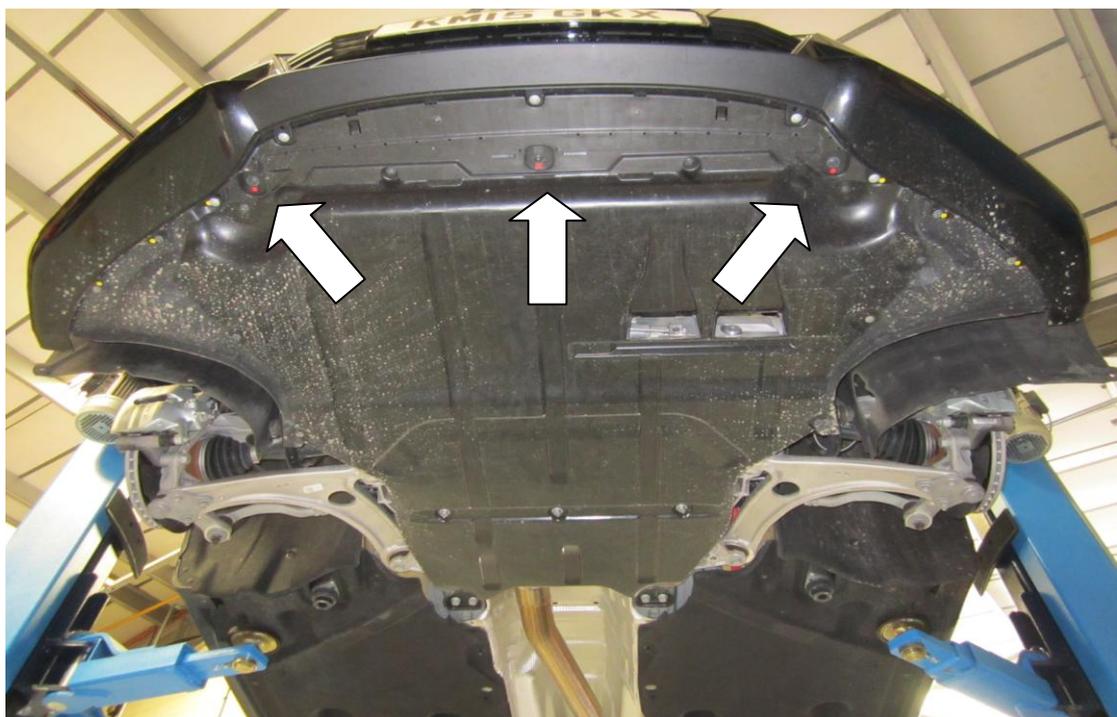
4. Loosen the clamp on the induction hose to your turbo, then pull in an upwards motion to remove.



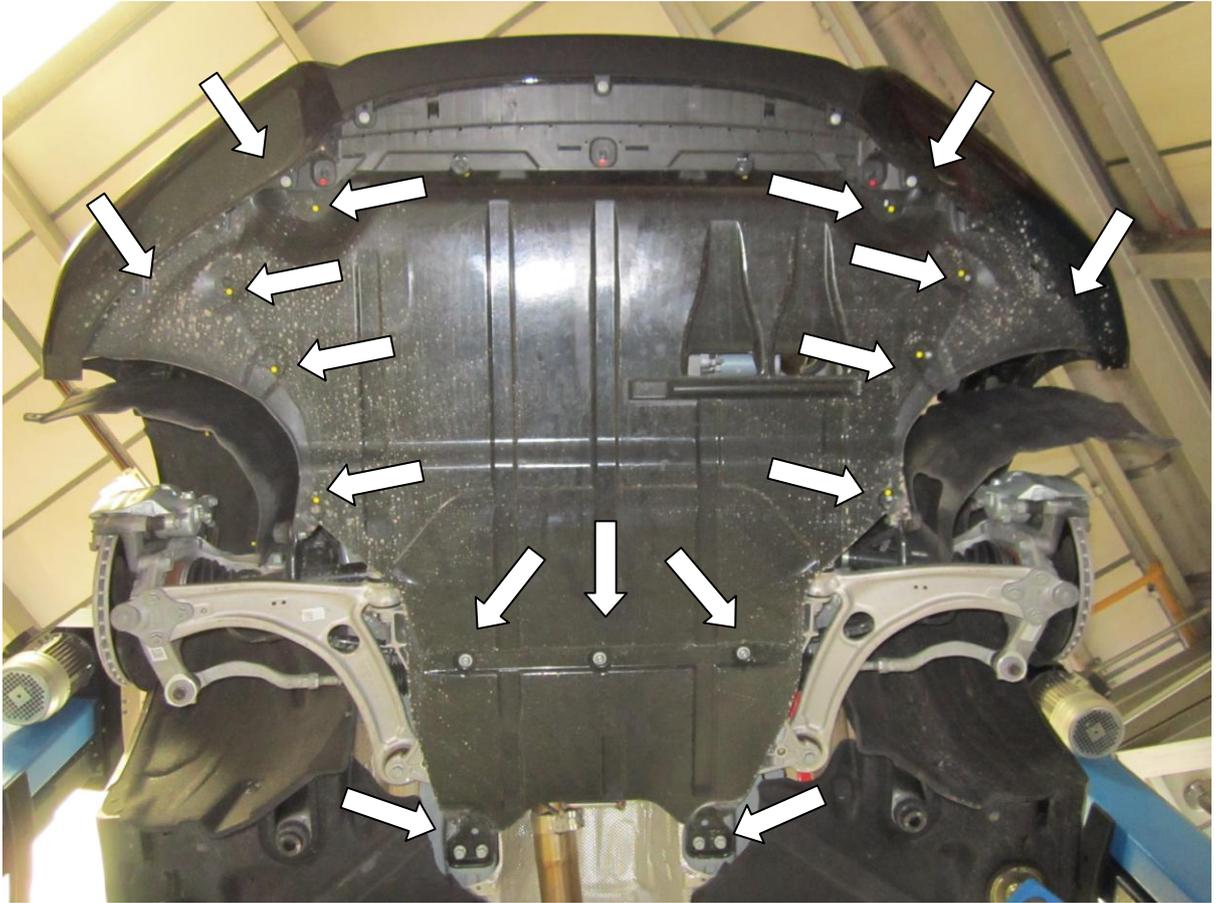
- Using the T20 Torx driver, remove the fasteners from the inner arches. You only have to undo the front half of the arch liner. There are 12 fasteners on the front half of each arch liner.



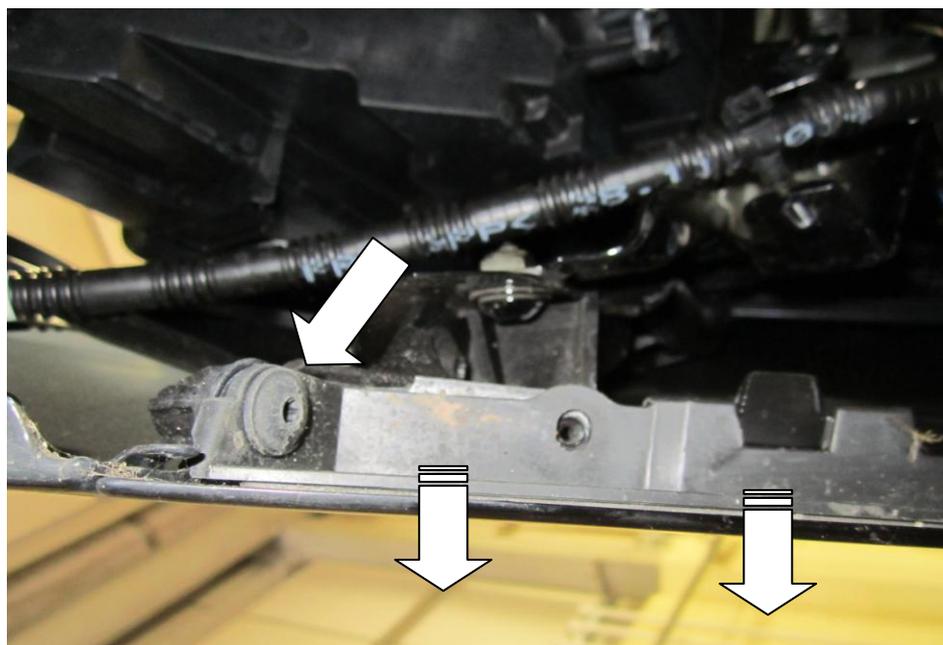
- Using the T30 Torx drive undo the 3 fasteners pictured .



7. Now using the T20 and T45 Torx drives remove the fasteners pictured ,there are also two trim clips at the rear of the undertray that must be removed.



8. Using the T20 torx drive remove the fasteners that bolt the bumper to the wing on both sides of the vehicle. Once these have been removed pull the lower bumper away from the arch to unclip the bumper ready for removal .



9. Disconnect the wiring loom on the inside the lower passenger side of the bumper (RHD vehicles)



10. Using the hose clamp drive disconnect the intercooler boost pipes.



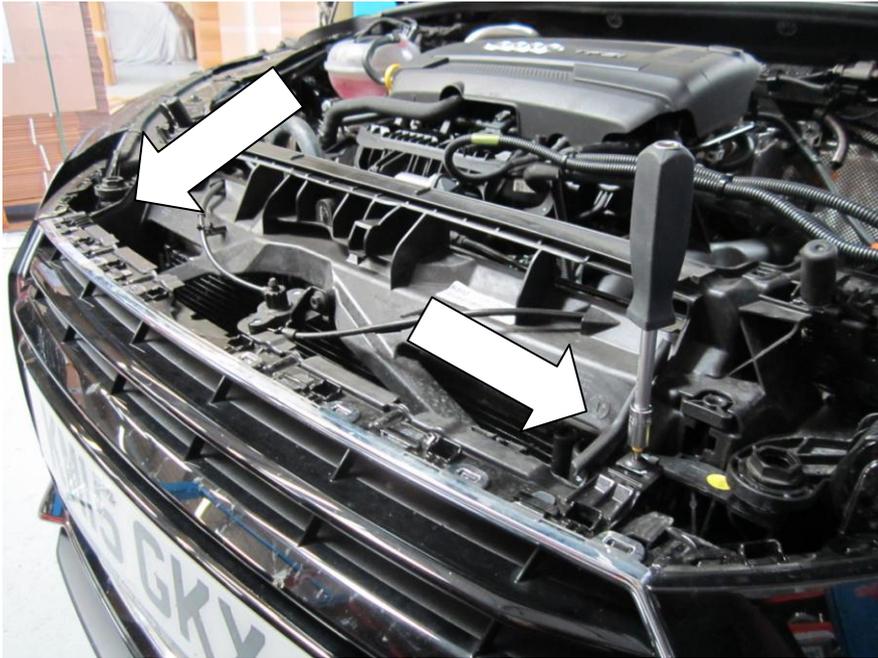
11. You must now remove the bonnet pull. Use a flat bladed screwdriver to push in the tab on the back of the lever then simply pull upwards to remove.



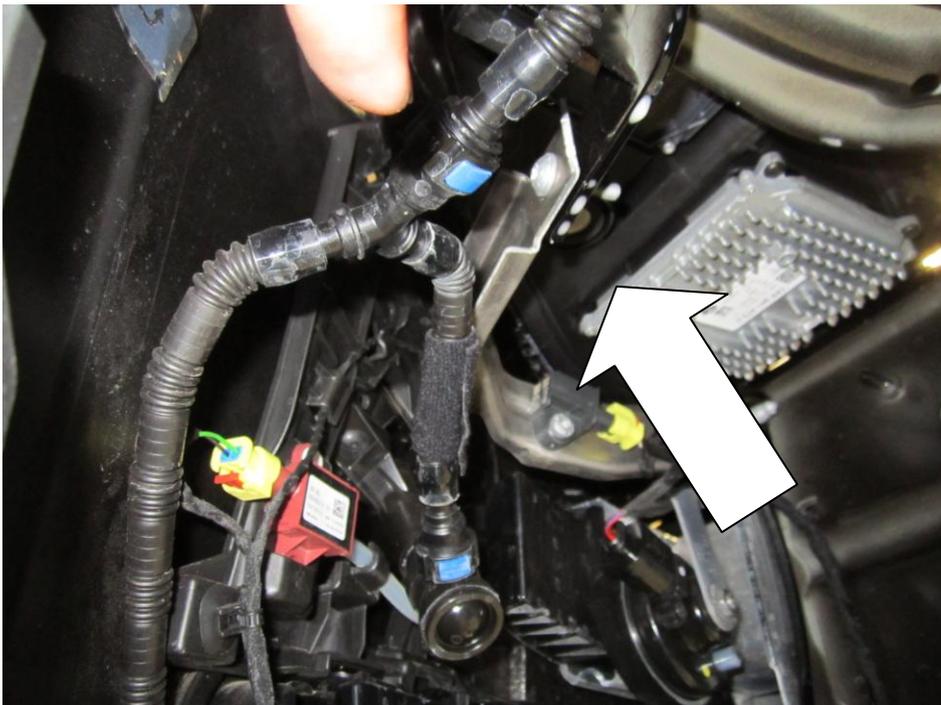
12. You will now be able to remove the plastic panel underneath the lever, pull in an upwards motion to remove.



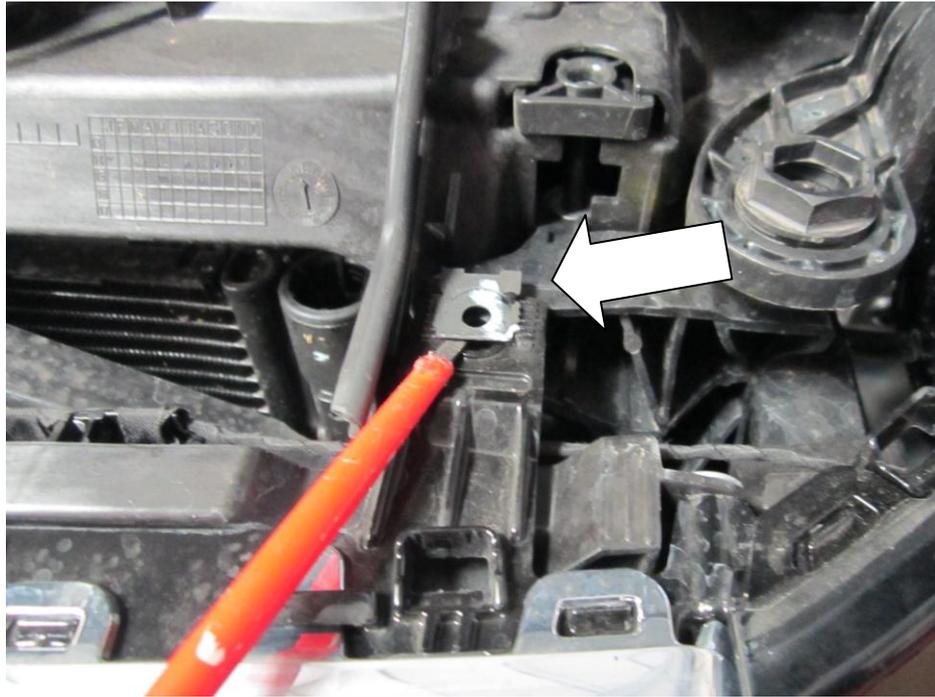
13. Remove the T20 fasteners under the plastic cover .



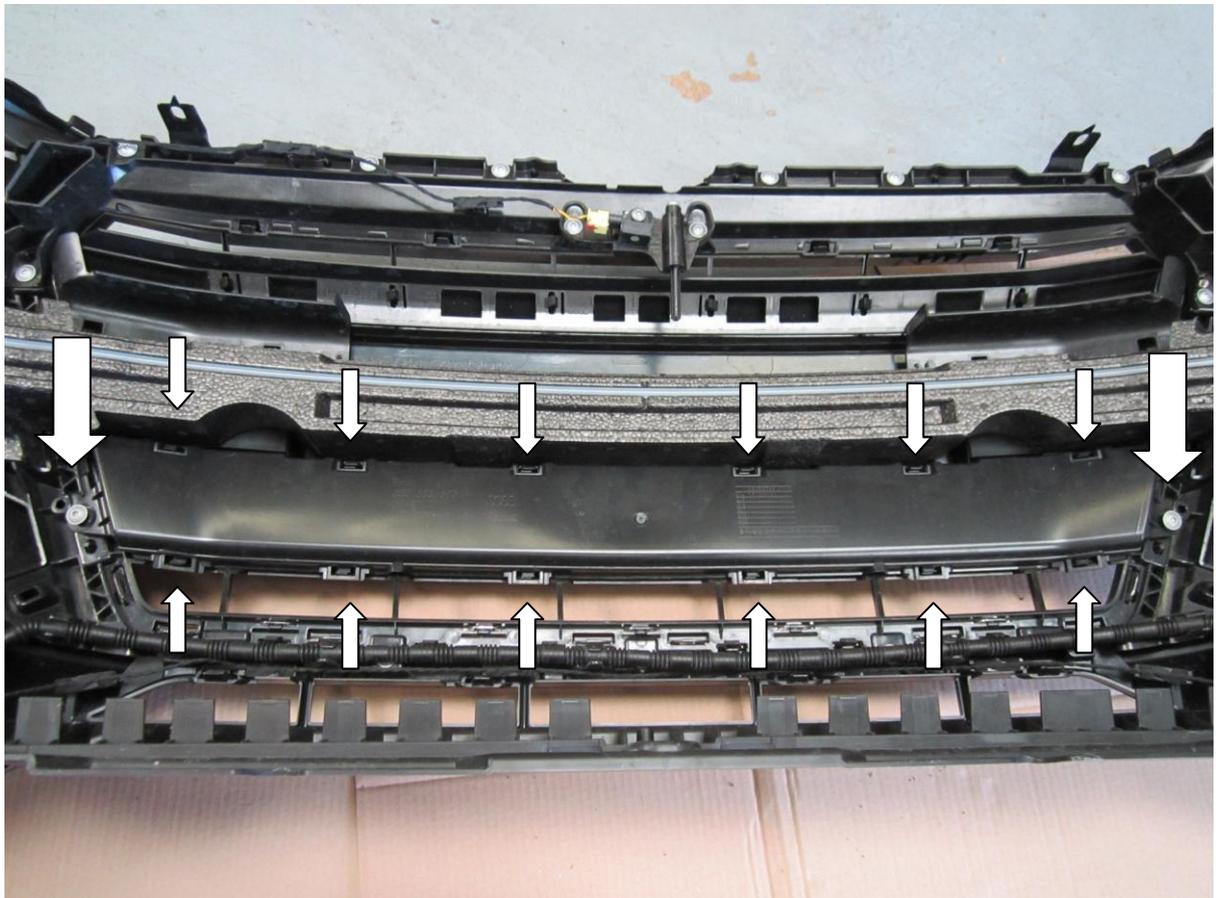
14. Undo the front light washer jet, this can be found behind the front bumper on the passenger side (RHD vehicles).



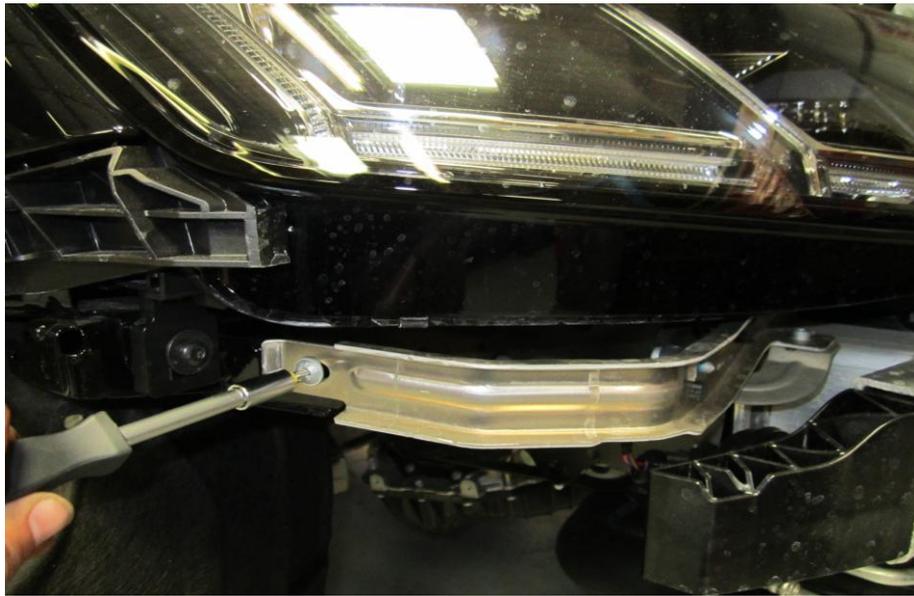
15. Using a flat bladed screwdriver prise up the clips that hold on the front bumper, these are beneath the torx fasteners you removed in section 12. To make it easier a second person should help you lift and remove the bumper safely without damaging it , however this can be done alone.



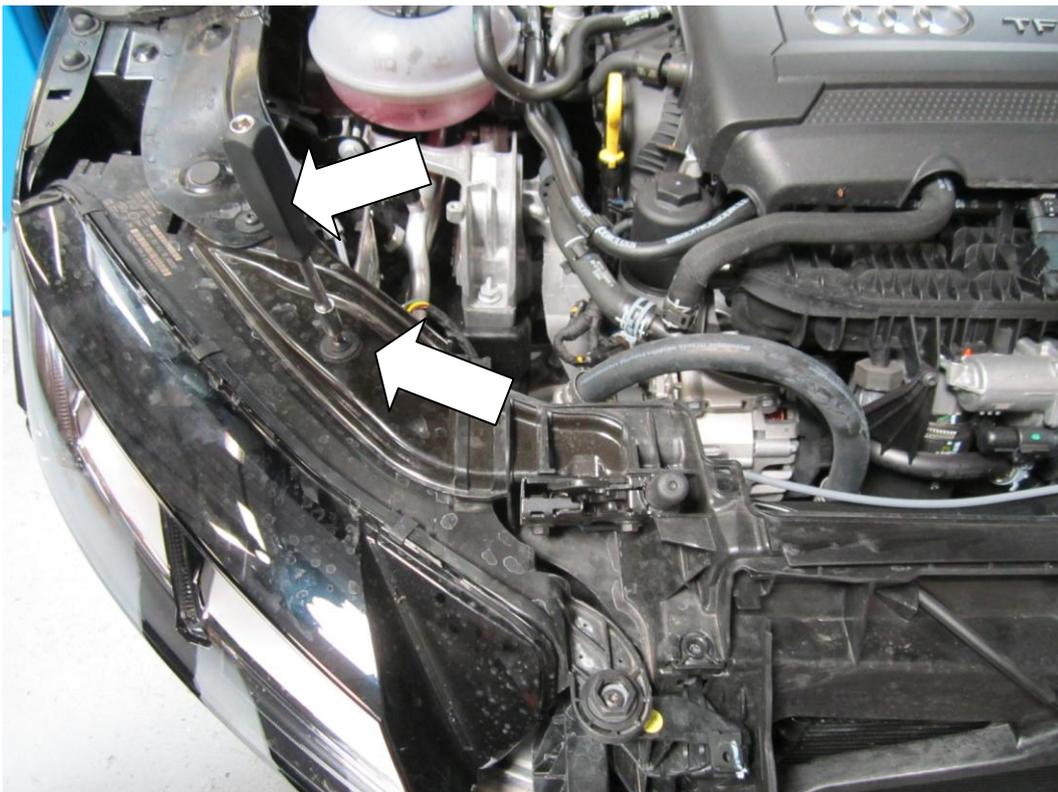
16. Now the bumper is off you can remove a part of the plastic grill. This does nothing but restrict air to your vehicles cooling systems. Your intercooler and radiator will benefit from the removal of this part. Using a T20 torx drive remove the two fasteners arrowed in the picture below then just unclip the plastic cover and remove .



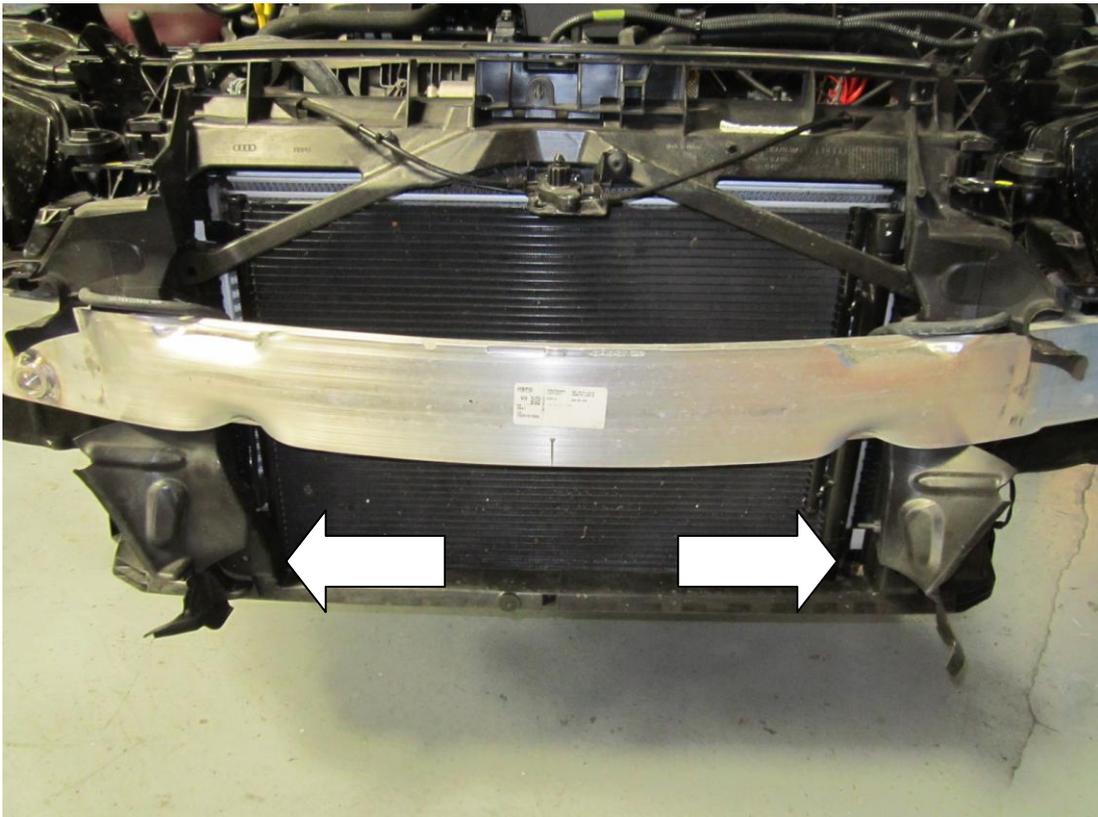
17. Undo the T30 fastener that holds the under light brace bar .



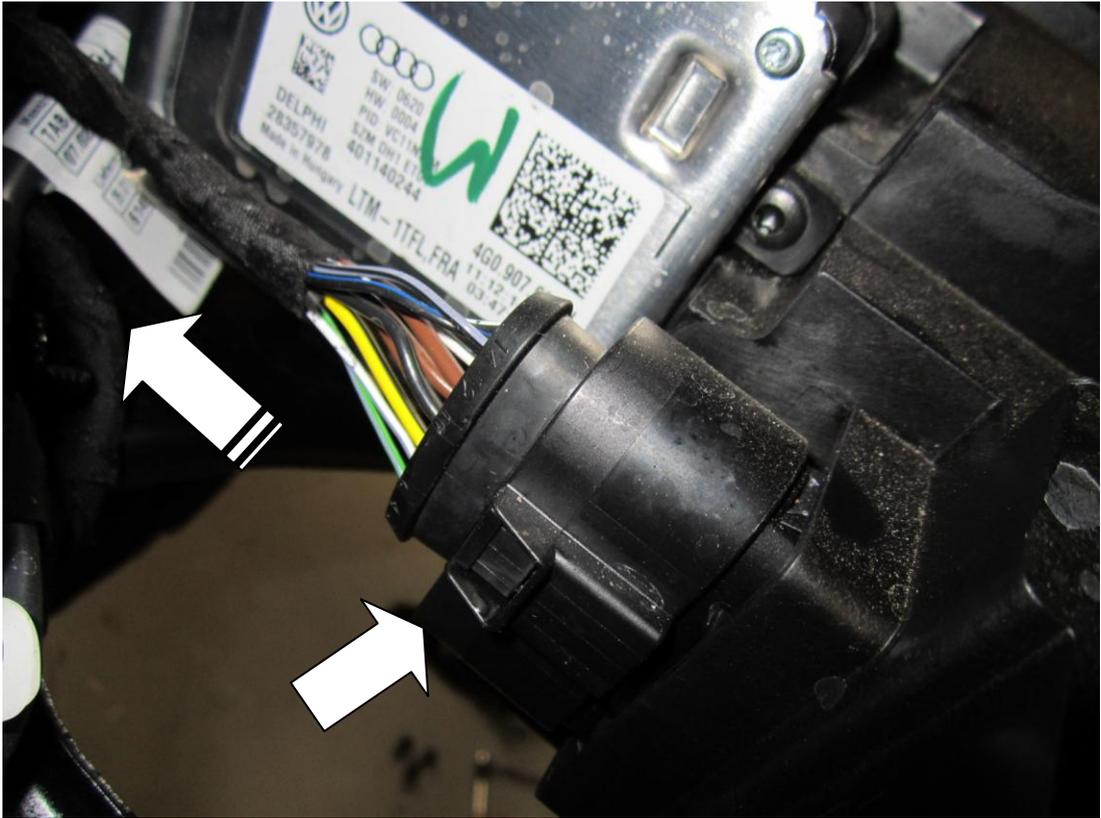
18. Undo the two T30 Torx fasteners above each headlight .



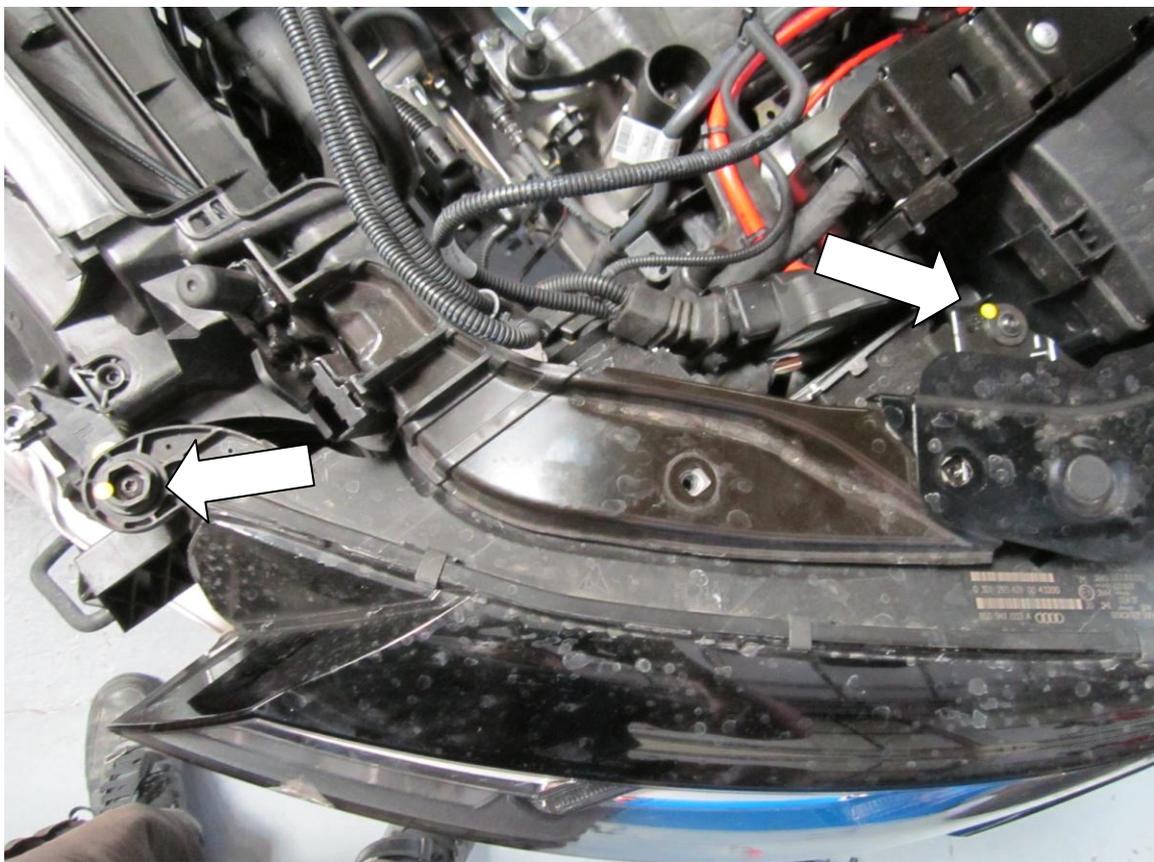
19. Disconnect the air temp sensor and remove the ducting either side of the intercooler assembly.



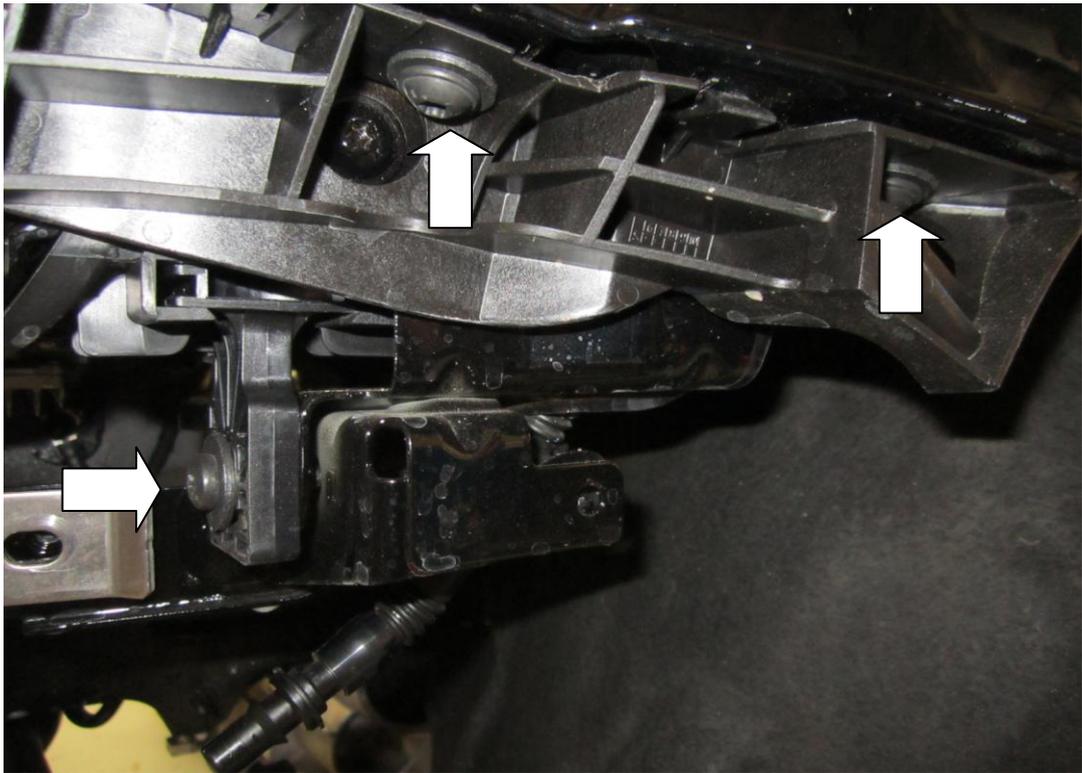
20. To remove each headlight disconnect the wiring loom on the rear of each light by pushing in the tab arrowed then pull the loom away from the headlight .



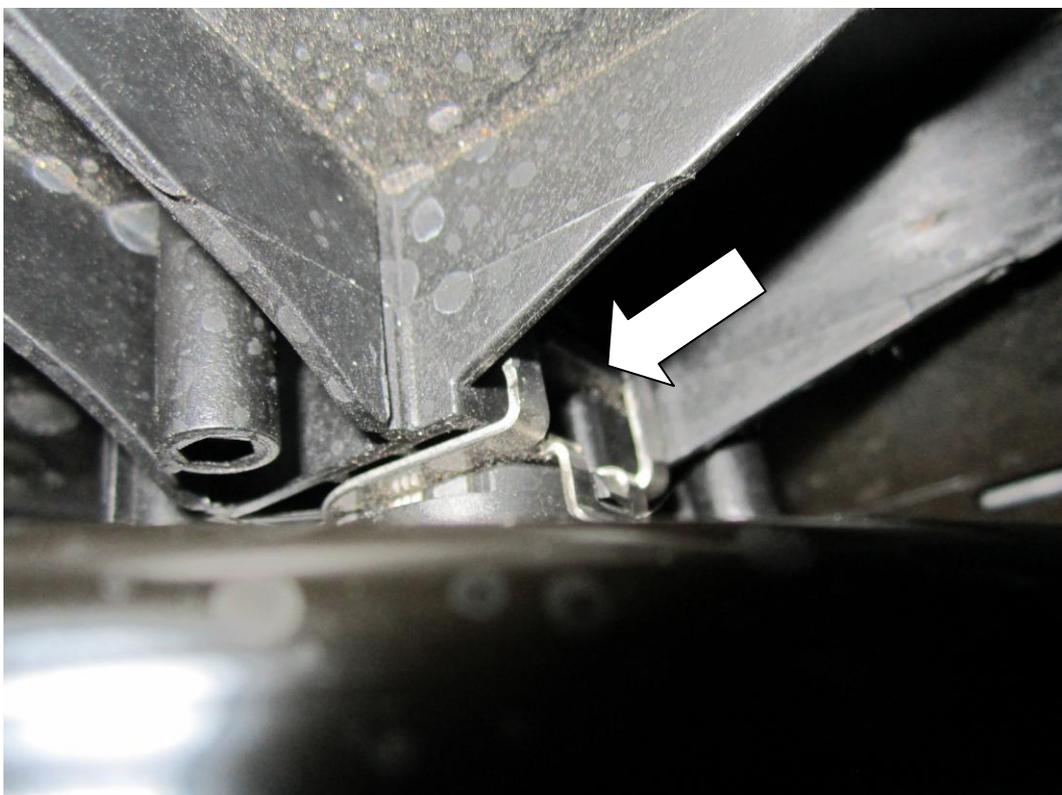
21. Undo the two T30 fasteners arrowed in the picture below.



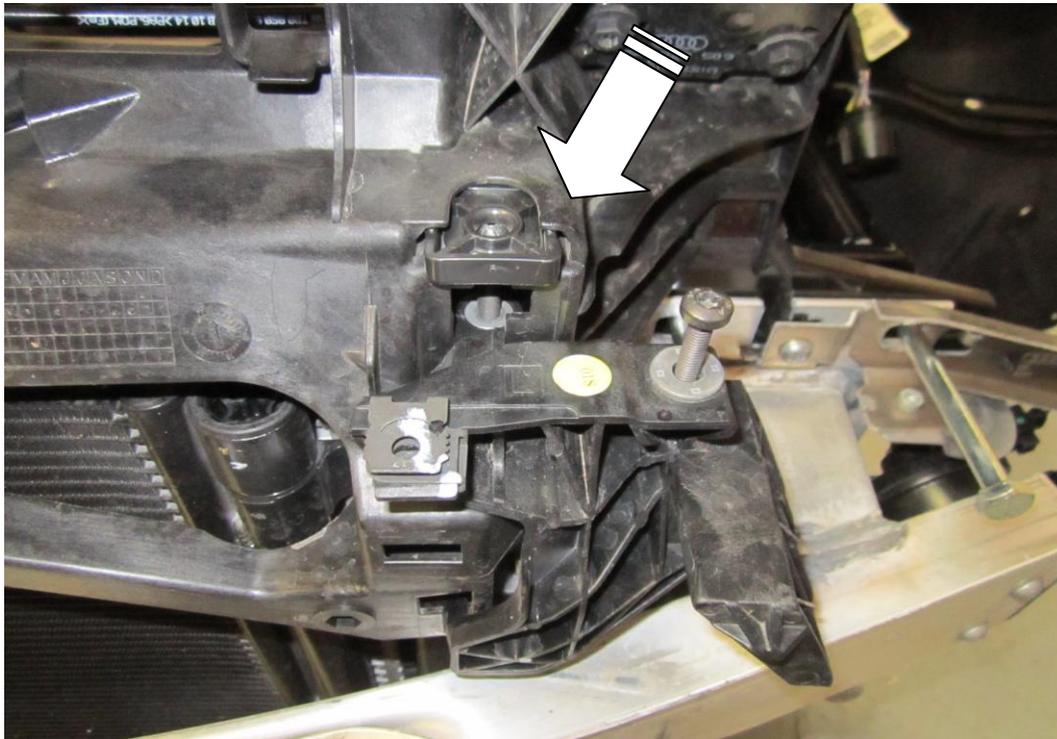
22. Undo the three T30 torx screws underneath the headlight next to the wing.



23. Next remove this tab light mechanism from the top of the headlight. Now slide the headlight out from under the housing.

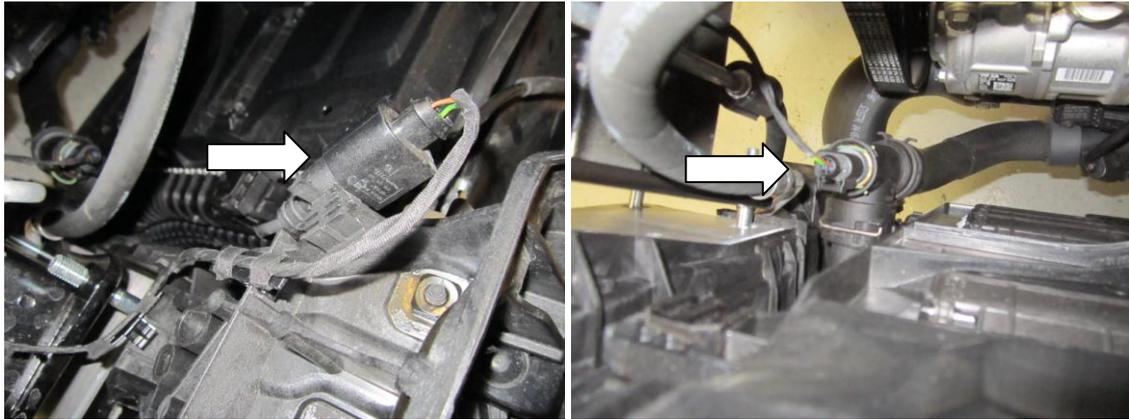


24. The light housing needs to be removed. Pull out the tab that is arrowed in the picture below then slide the housing upwards. Do not undo the bolt under the tab as this will adjust the height of your headlight.

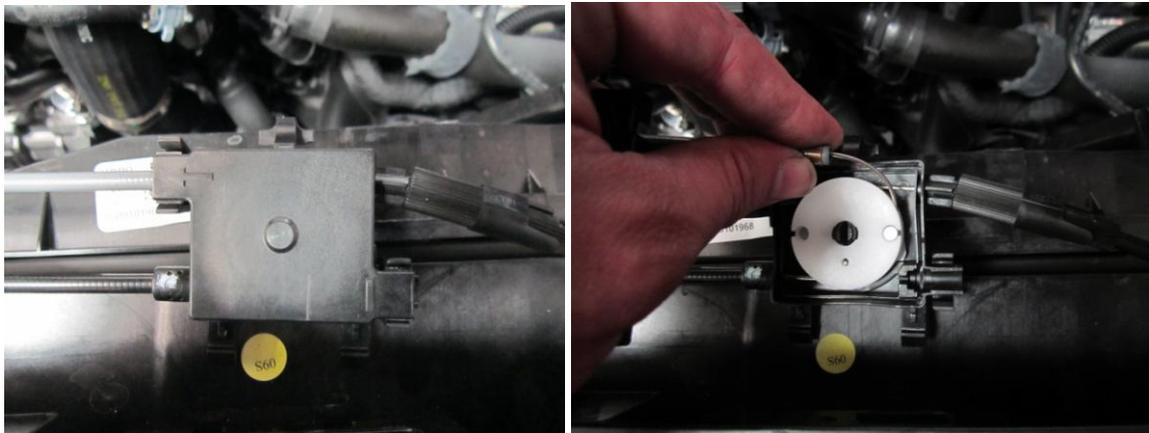


25. Disconnect the wiring loom plugs shown in pictures below. This is to enable you to remove the condenser radiator and intercooler pack with ease .





26. Slide the cable box off the plastic cowl, disconnect the bonnet pull, open the top of the cable box and disconnect the grey cable .



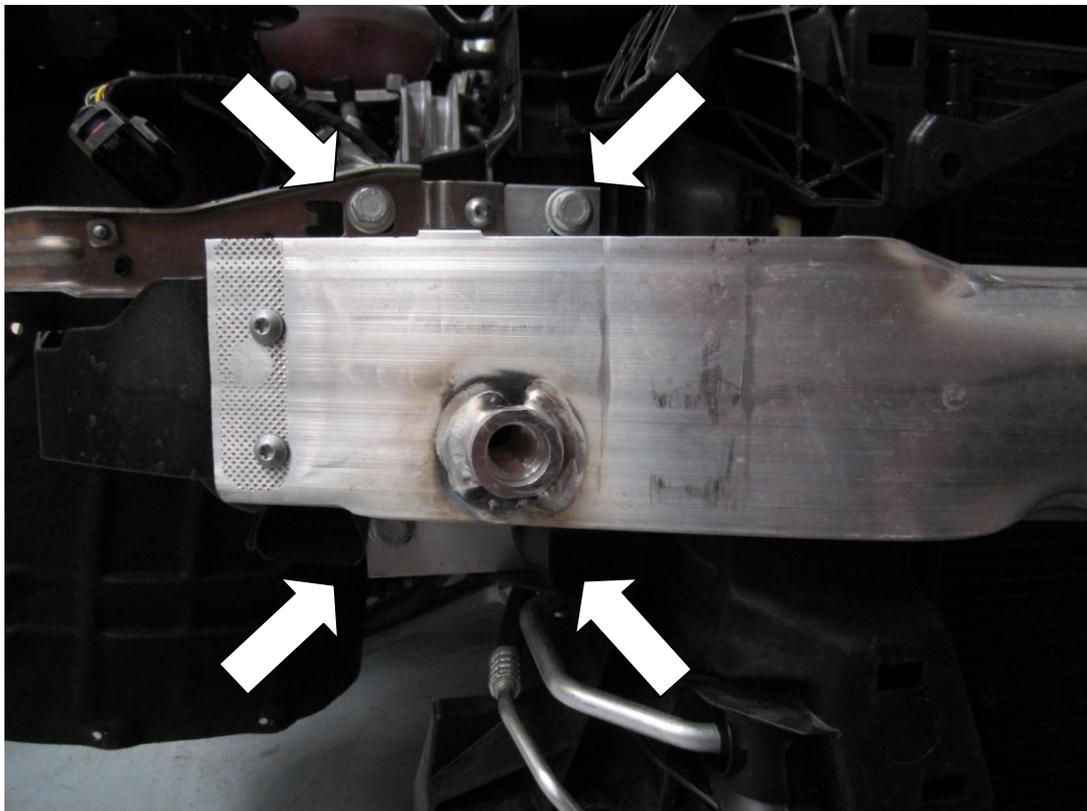
27. Using sharp side cutters cut the tabs from the white blocks that hold the intercooler in place. Dont worry about breaking these as new mounting blocks are supplied with your new Forge motorsport intercooler.



28. We supply longer m8 bolts to help with the install. These will enable you to make sure everything is disconnected and help you to place a jack under the front cowling before removing the crash bar.

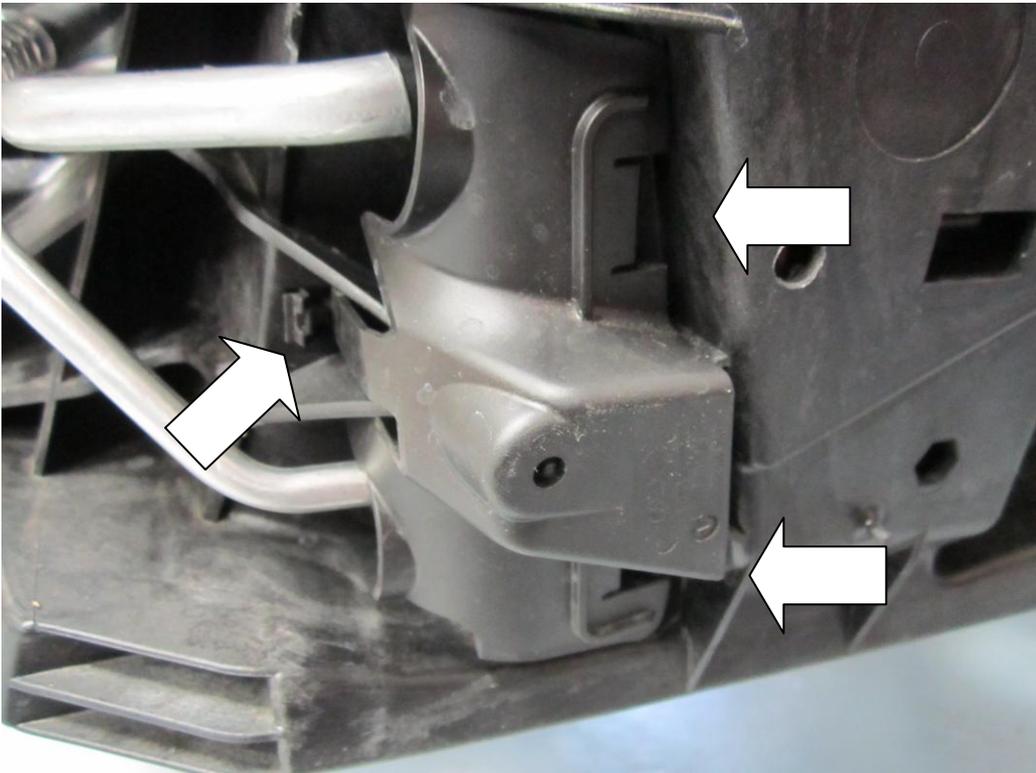


29. Using a 17mm socket remove one bolt from each side of the crash bar and replace them with the longer bolts supplied. Now remove the other 3 bolts from each side. When the jack in place the long bolts can be removed.

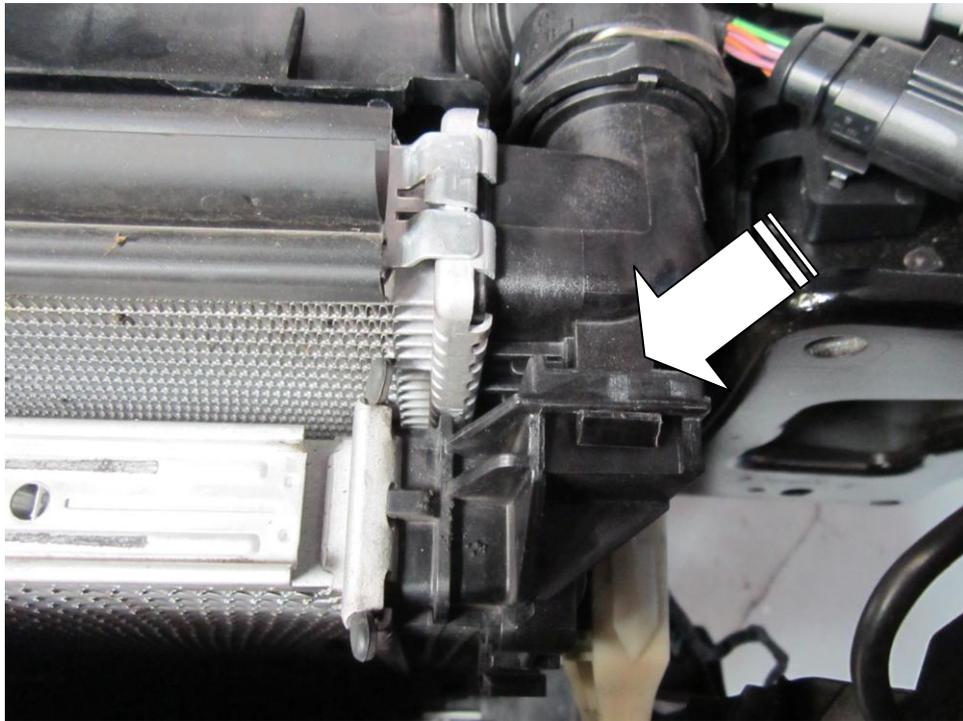




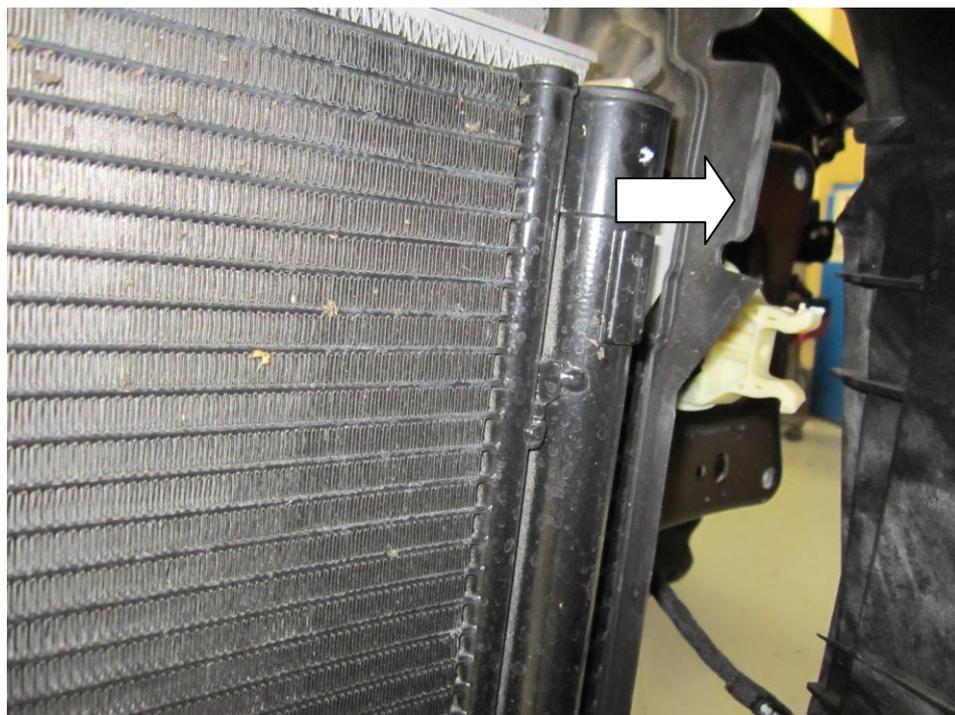
30. Remove this part of the plastic cowling where the air condenser pipes pass through the intercooler assembly housing by pushing in on the tabs as arrowed .



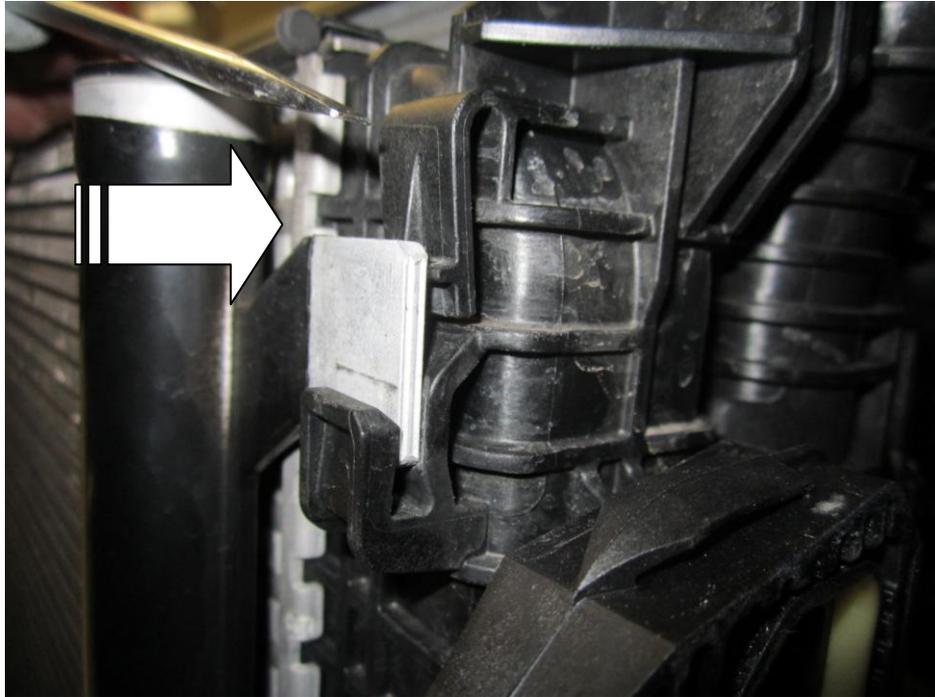
31. Pull the cowling away from you, then using a flat bladed screwdriver push down on the tabs holding the radiator to the intercooler. Push the radiator away from you while the tabs are depressed.



32. Remove the rubber ducting which sits either side of the condensor, This will no longer be used as your Forge Motorsport intercooler is a lot thicker than your OEM item.



33. Push in the tabs on the top of the intercooler that hold the condenser in place then pulling or pushing the condenser in an upwards motion should remove it from the intercooler. **This operation can prove very difficult and is why we recommend having the air con de-gassed.**



34. Once the condenser is removed from the intercooler remove your OEM intercooler .

35. Now using either a sharp knife or a small dremel cut a small area away from the front cowling, this is just behind where the condenser pipes run through the front cowling. **If the condenser is still in situ take care as not to damage the condenser pipes as this could be very dangerous.** The area to cut is coloured red below.



36. Once the front plastic cowl has been trimmed fit the mounting blocks to each side of the intercooler.



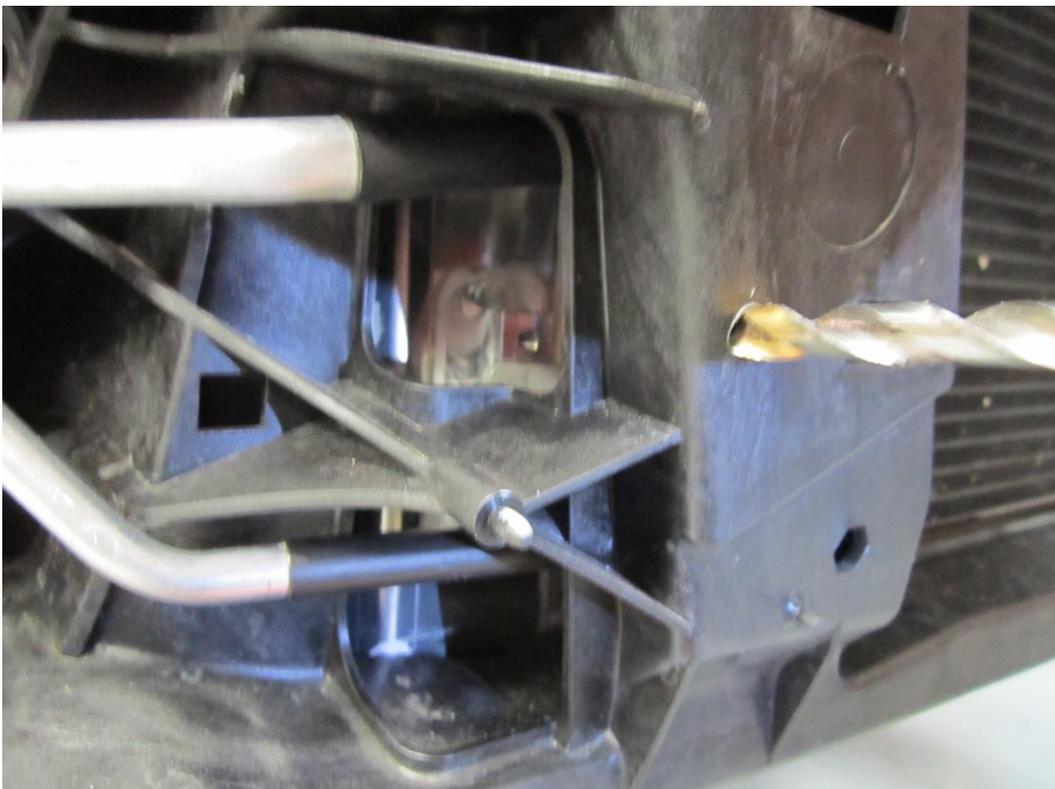
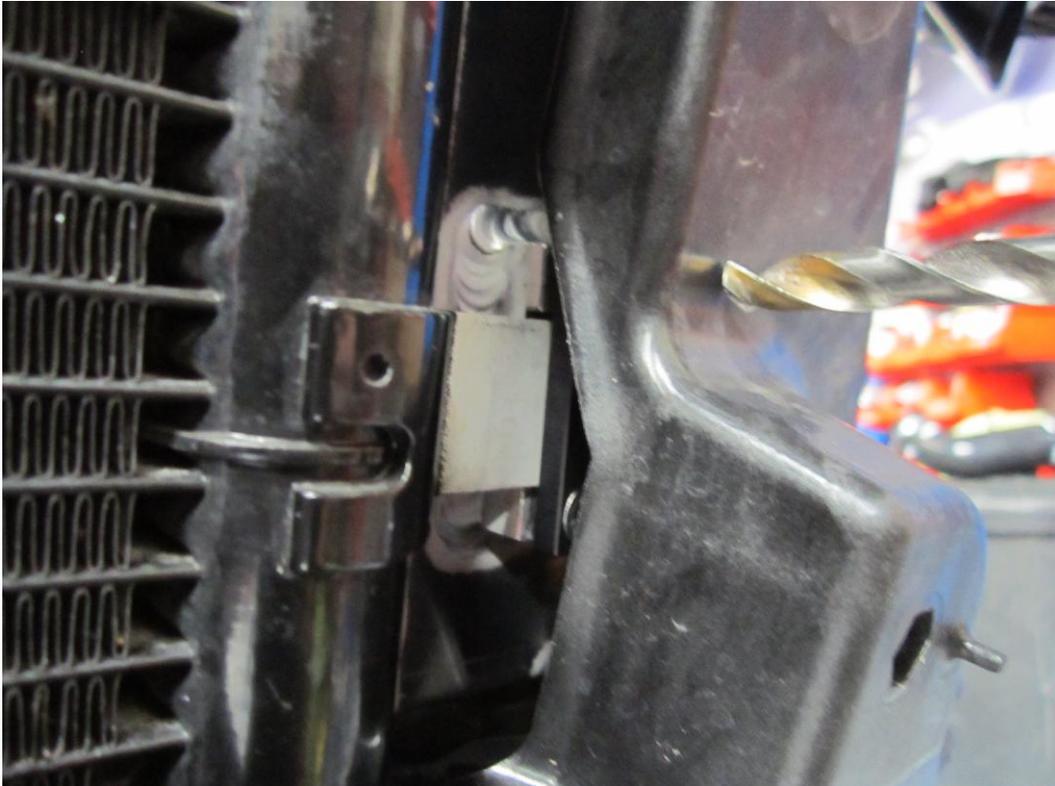
37. Now you can fit the Forge Motorsport intercooler into the OEM intercooler's position.



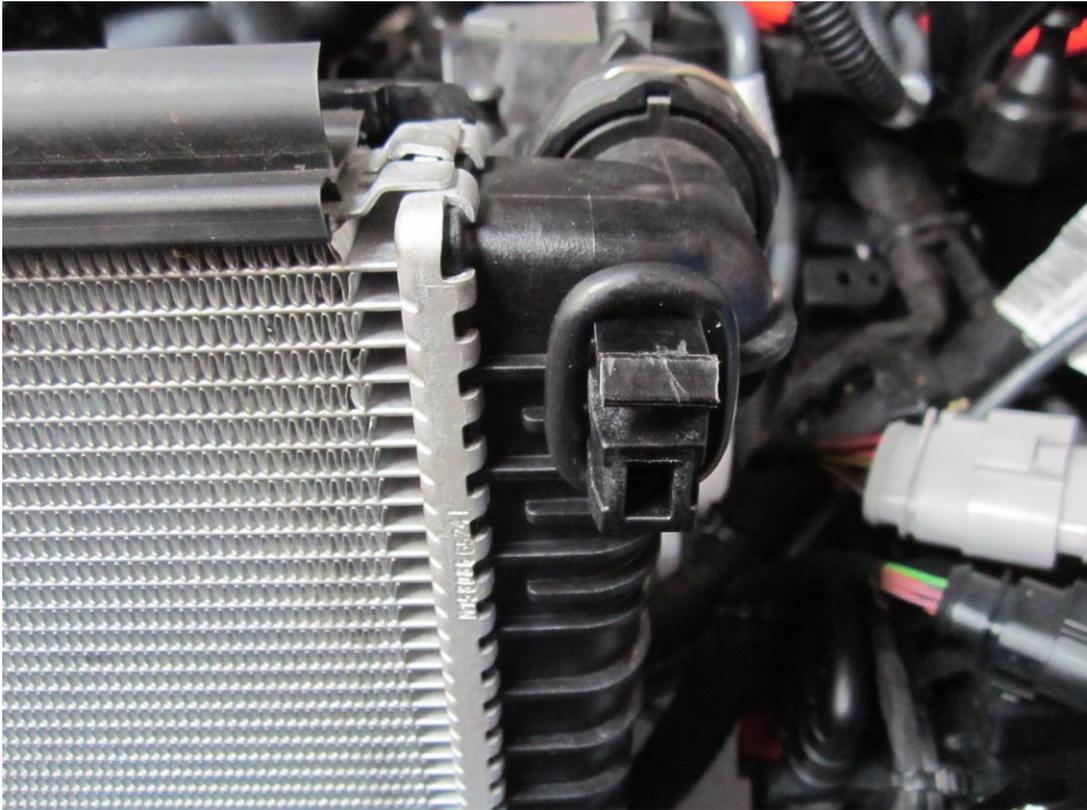
38. With the new intercooler in place fit the condenser into the mounting position then using a 3mm allen key fasten the mounting plates in place. You will need a drill and a 5 mm drill bit to drill some holes in the plastic cowling to access some of the fasteners.



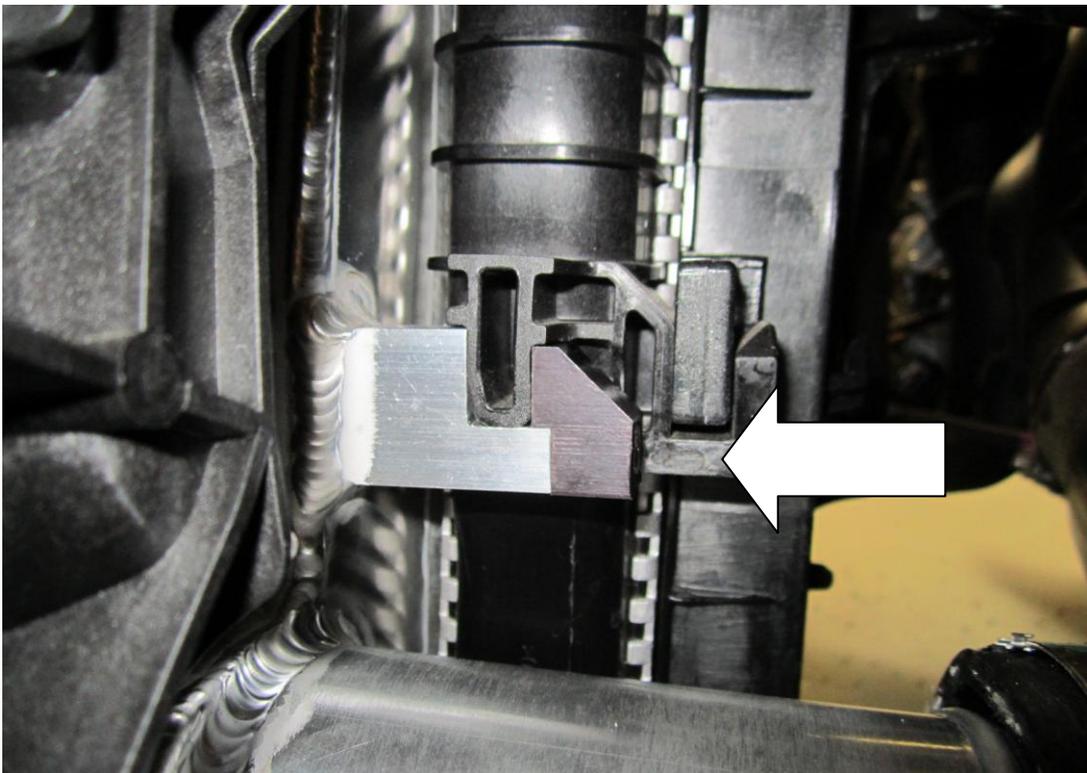
39. Please study the photos below to see where to drill the access holes in order to tighten some of the mounting clamps. The mounting clamp closest to the condenser pipes can only have one of the fasteners tightened dont worry as the cowling itself will hold this in position when fully installed.



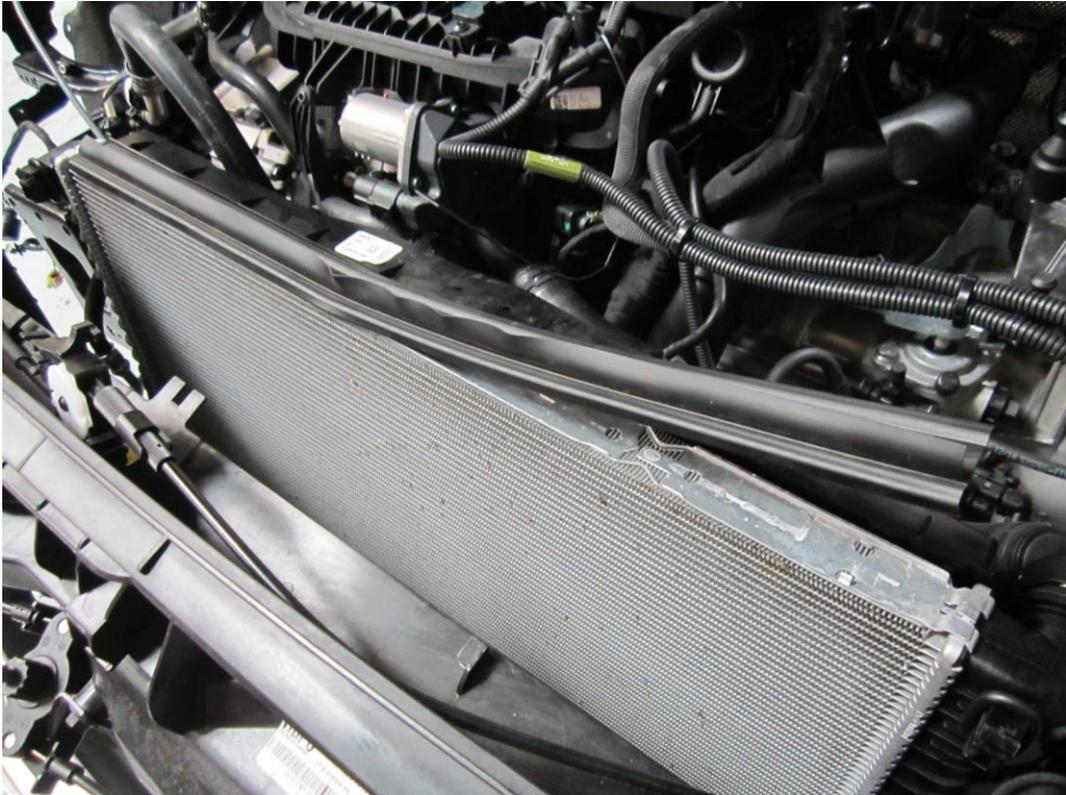
40. Place the rubber O-rings provided over the mounting clips on the radiator.



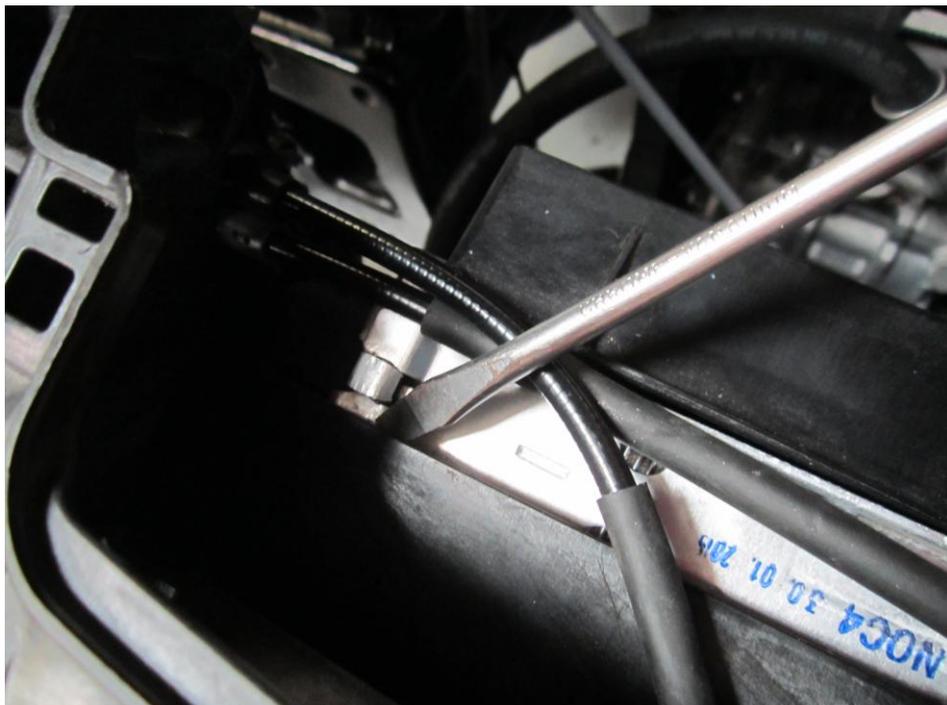
41. Place the radiator into position on the lower mounting blocks, then using a 6mm allen key, tighten into position.



42. Before clicking the radiator into position remove the plastic cover that is mounted on top and push the radiator into the rear of the intercooler making sure the tabs are fully inserted.



43. Now push the intercooler and radiator into position in the plastic cowling. You may need to use a flat bladed screwdriver to ease the intercooler under the the plastic cowling and into position.



44. Now the intercooler and radiator are sat within the cowling, use the self tapping screws and penny washers provided. Insert the screws through the plastic cowling and into the mounting blocks then tighten .



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

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