



## VW GOLF GT 1.4 TSI SUPER/TURBO TWININTERCOOLER INSTALLATION



Tools needed:

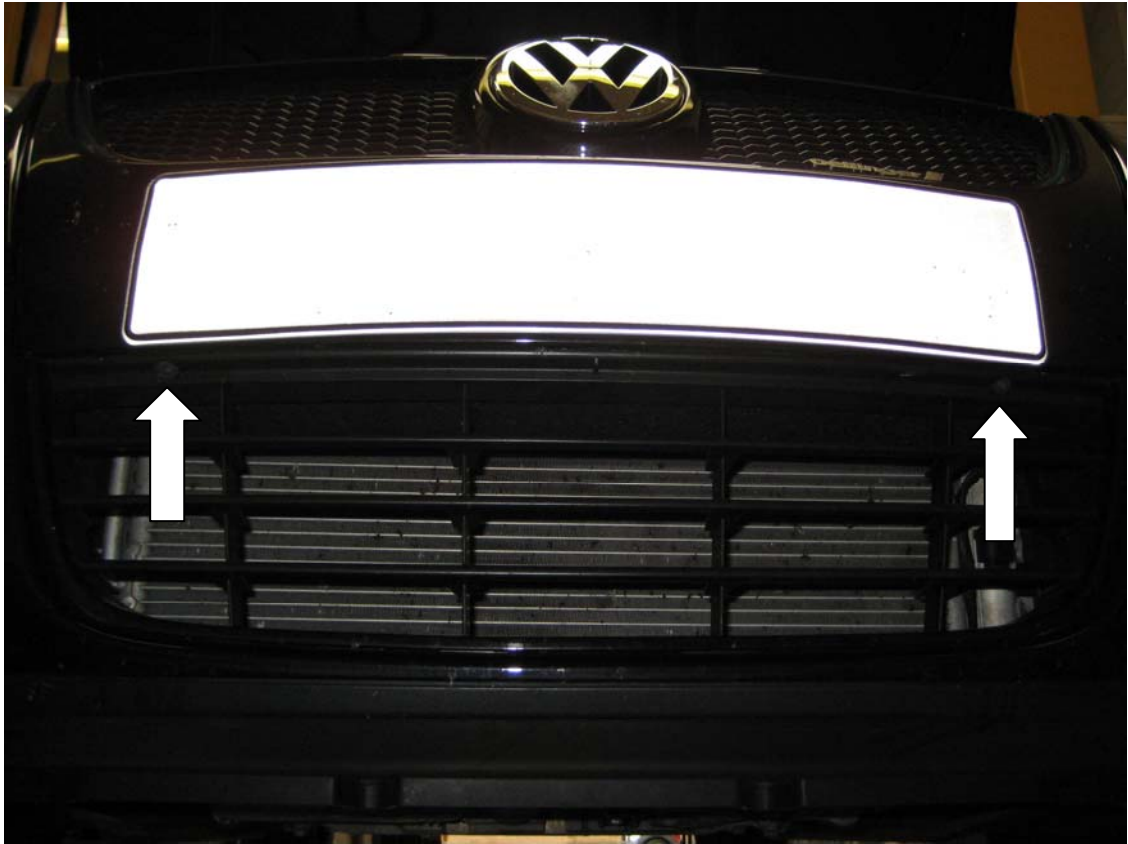
Torx T20,T25 and T30 screwdrivers or bits

Pick/Small screwdriver

Phillips head screwdriver

7mm hose driver or 7mm socket

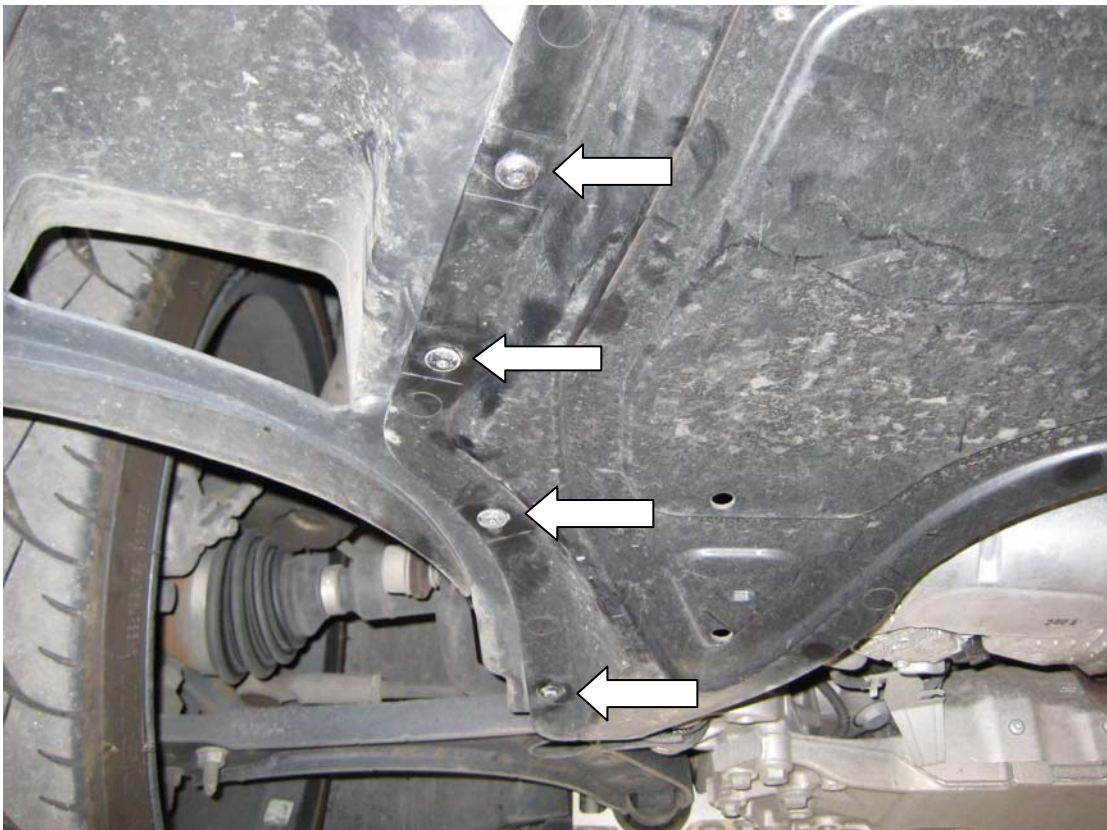
1. Jack the car up and support the front on axle stands. Open the bonnet. From the front of the car, remove the two T20 screws under the number plate and the four T25 screws along the front edge of the grille. Pull the grille off the mounting tabs and remove it from the car.



2. Working in each wheel arch remove the four T25 screws (three down the edge, one up into the wing).



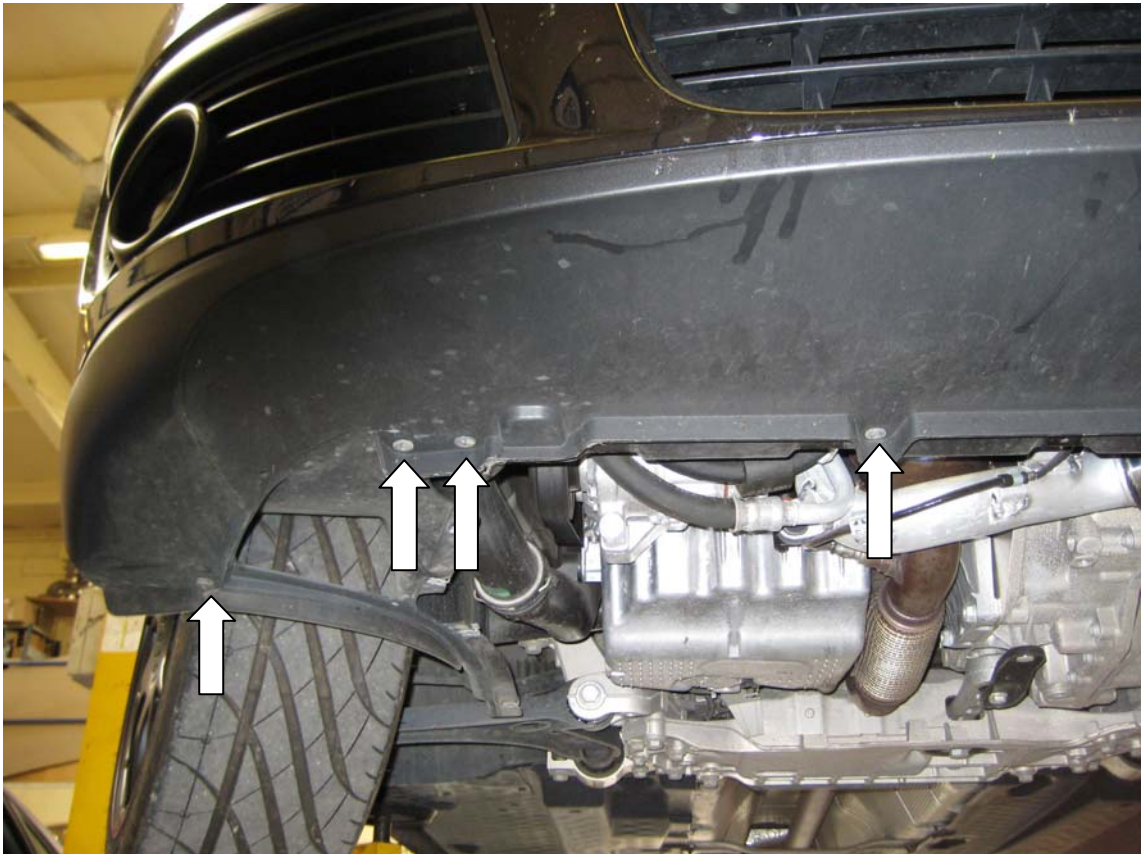
3. Working under the car, remove the four screws down each side of the engine undertray, and pull the undertray towards the back of the car to release it from the radiator cowl.



4. The headlight washers either have to be removed or the system drained when the bumper is removed. We will cover both methods. To remove them, on the front edge of the bumper, get your fingernail or an object that won't mark the bumper, and work it under the edge of the headlight washer cover. Pull the headlight washer mechanism upwards (be careful, it will be very highly sprung) and remove the cover over the tabs, before lowering it gently back into the bumper.



5. Remove the eight screws from under the front edge of the bumper (four on each side).



...and finally the two T30 screws in the grille area to release the bumper from the car.

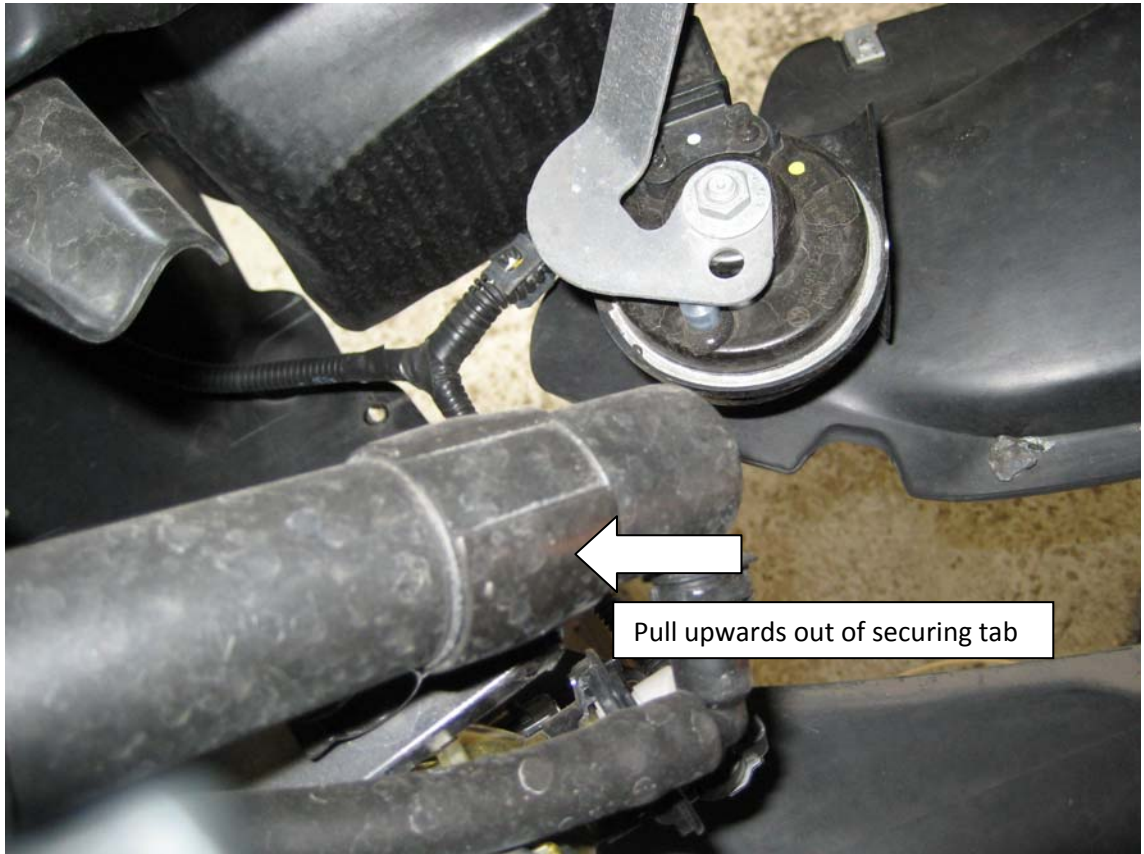


6. Support the bumper and slowly pull it forwards from the car. You will only be able to pull it about 12 inches before the headlight washers stop you. Remove the electrical connection to both foglights by squeezing the plug and pulling downwards.



7. If you want to drain the headlight washers, skip to the next step. If you don't want to drain the washer system, you will have to unscrew the washers from the back of the bumper using a T25 screwdriver, and unclip all the hosing, then pull them out of the securing tab and tie them up on the body or you may find they leak. Now remove the bumper entirely.

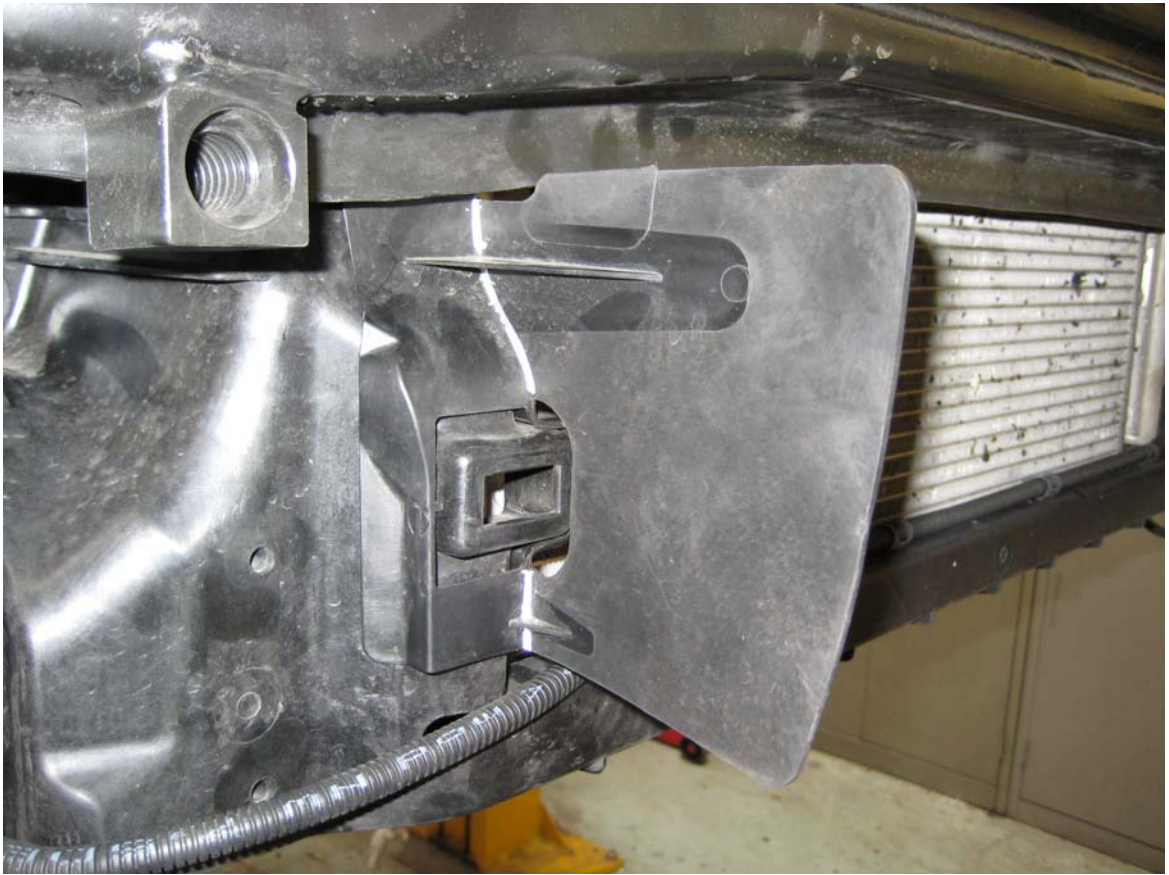




8. If you don't mind draining the washer fluid, find a suitable container (the system holds 5 litres when full) and position it under the outlet to the washers, then squeeze the connector and pull it off, then remove the bumper entirely.

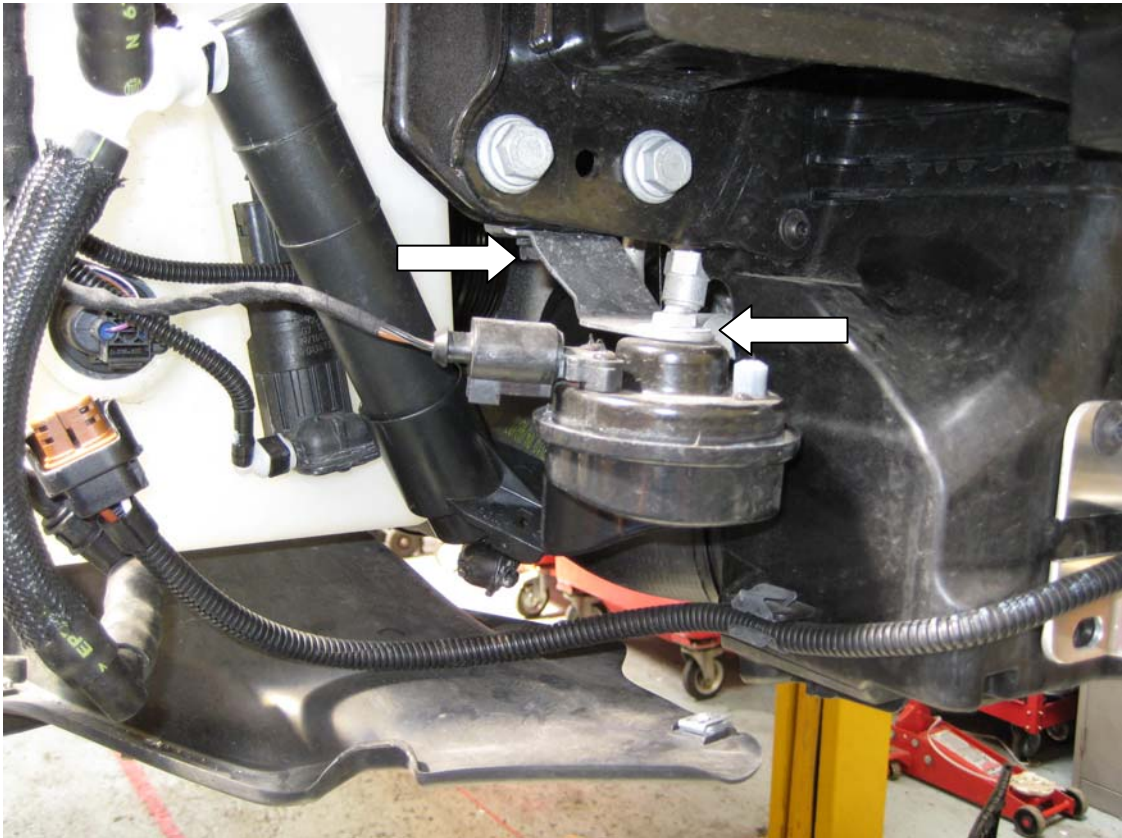


9. With the bumper removed, cut out the section of the air guide on both sides of the car indicated in white below, using a Dremel or similar.





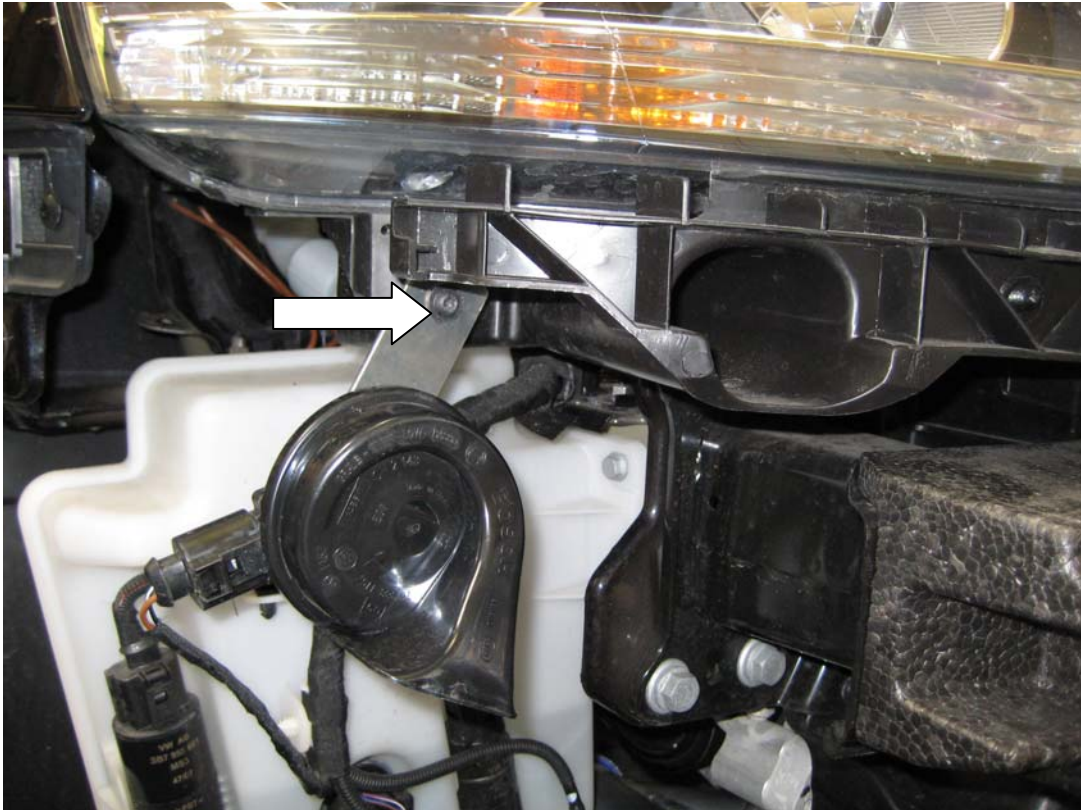
10. Disconnect both horn electrical connections, then remove the horns from the car using a 13mm socket, and remove the brackets from the back of the horns with the same socket.



11. Re-use the drivers side bracket on the passenger side as shown below, and reattach the horn and electrical connection.



12. Use the Forge horn bracket supplied for the drivers side, and mount the horn underneath the headlight as shown below, using the T25 screw already present, and reattach the electrical connection.



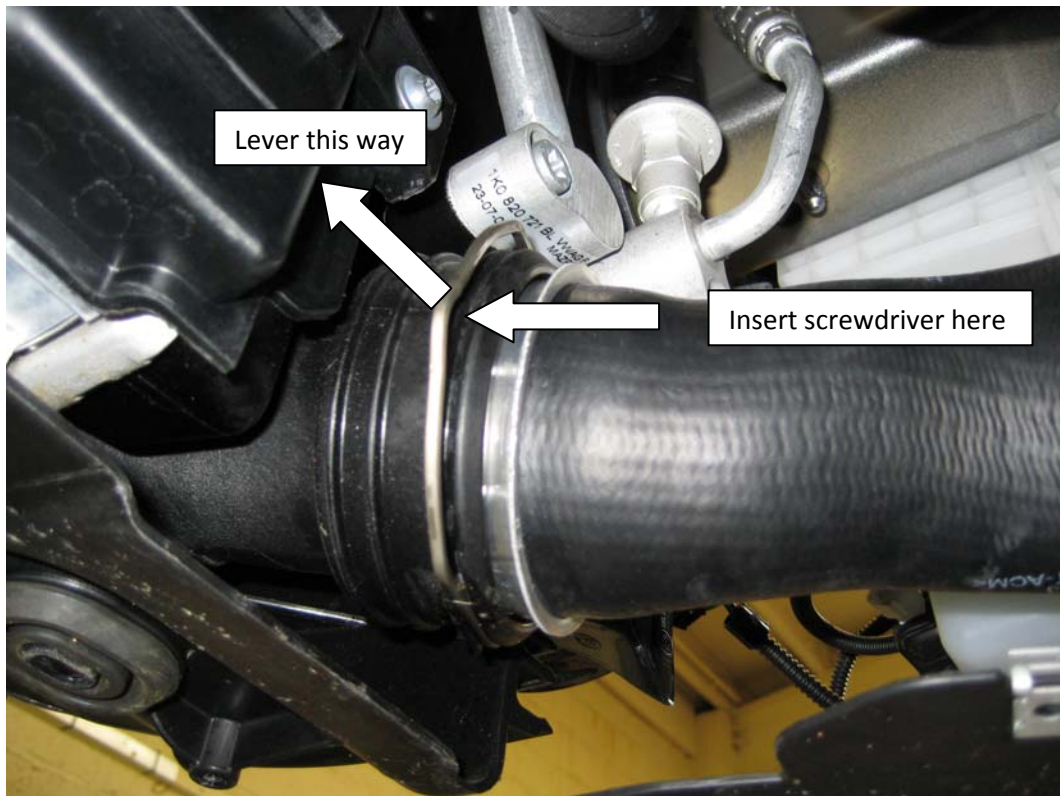
13. Remove the air temperature sensor from in front of the condenser, by squeezing two of the three tabs inwards and pulling the sensor upwards, leaving the wiring connected.



14. Mount the intercooler to the front of the car into the holes already in the radiator surround using the four self tapping screws and penny washers supplied. Clip the air temp sensor into the bracket welded to the end of the intercooler.



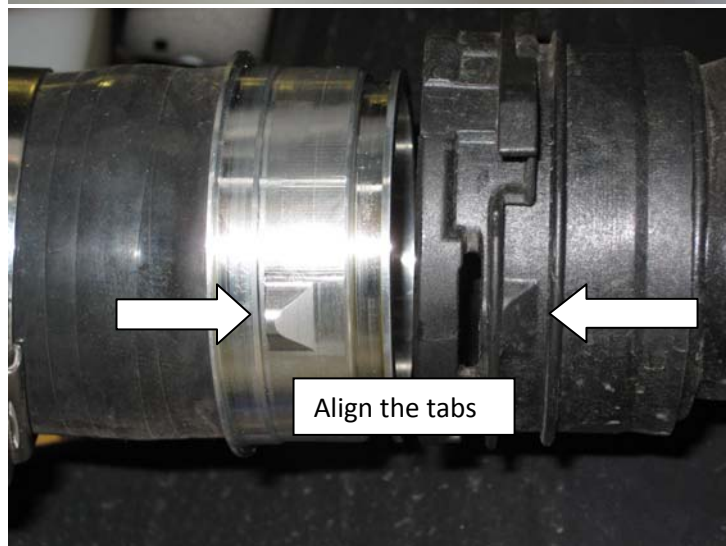
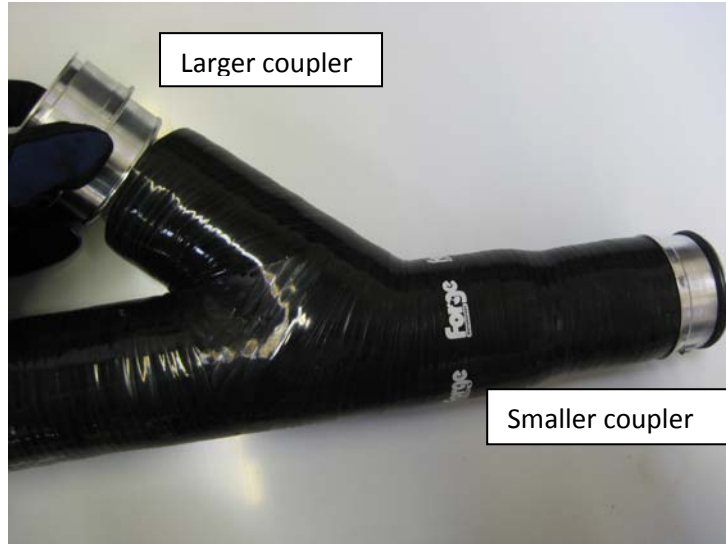
15. Remove the stock intercooler hoses by levering up the metal clips that secure them at each end. There is raised section into which you can insert a small screwdriver. The clip doesn't have to be removed, it only has to be moved approx 10mm to release the clips on the hose.



Remove the rubber o-rings from each end of the hose with a pick or similar, and insert them into the grooves on the three supplied Forge connectors, two of one size and one slightly smaller.



16. Insert the first Forge hose on the drivers side of the car, using the smallest and one of the larger Forge connectors, together with jubilee clips. You may struggle to get the hose on the car, so you can remove the T30 screw holding the hard pipe to the supercharger, and push the pipe back to enable fitting. The Forge connectors will only fit into the receptacles on the intercooler and hard pipe when the tabs are lined up with the holes, so pay attention to this.



The pipe fitted (note no jubilee clips shown).



17. Repeat this process for the pipe on the passenger side of the car. Note that only one of the pipes needs a coupler this time so fitting should be easier. Use jubilee clips on all hose ends.



18. The intercooler should now be completely fitted in the car. We now need to cut small sections from the back of the foglight covers, and the rear section of the bumper, which will all be unseen. Undo the single screw holding in the foglight covers on each side, and pull them out to remove.



Cut out the section shown below on both sides of the bumper to allow clearance for the pipes exiting the intercooler.



19. Cut out the section shown below from both the foglight covers. You can cut one long narrow slot, or two slots as we have to retain the vertical line in the cover.





20. Remount the bumper and check for clearance around the intercooler pipes before putting the foglight covers back in. Fully secure the bumper following points 8 to 1 in reverse order, and not forgetting to refill the washer fluid if you drained it out. Enjoy your new purchase !



## ENGINEERED FOR PERFORMANCE

You may also be interested in these Forge Motorsport products, available from your nearest Forge dealer.



FMDV14TSI – blow off adaptor for 1.4 TSi



FMIND010 – carbon fibre intake for 1.4 TSi