

i30N INTERCOOLER FITTING INSTRUCTIONS

Tools needed:

- *Socket set with extension*
- *Jubilee flexidriver*
- *Trim removal tool or flat bladed screwdriver*
- *Philips screwdriver*
- *Angle grinder/hacksaw*

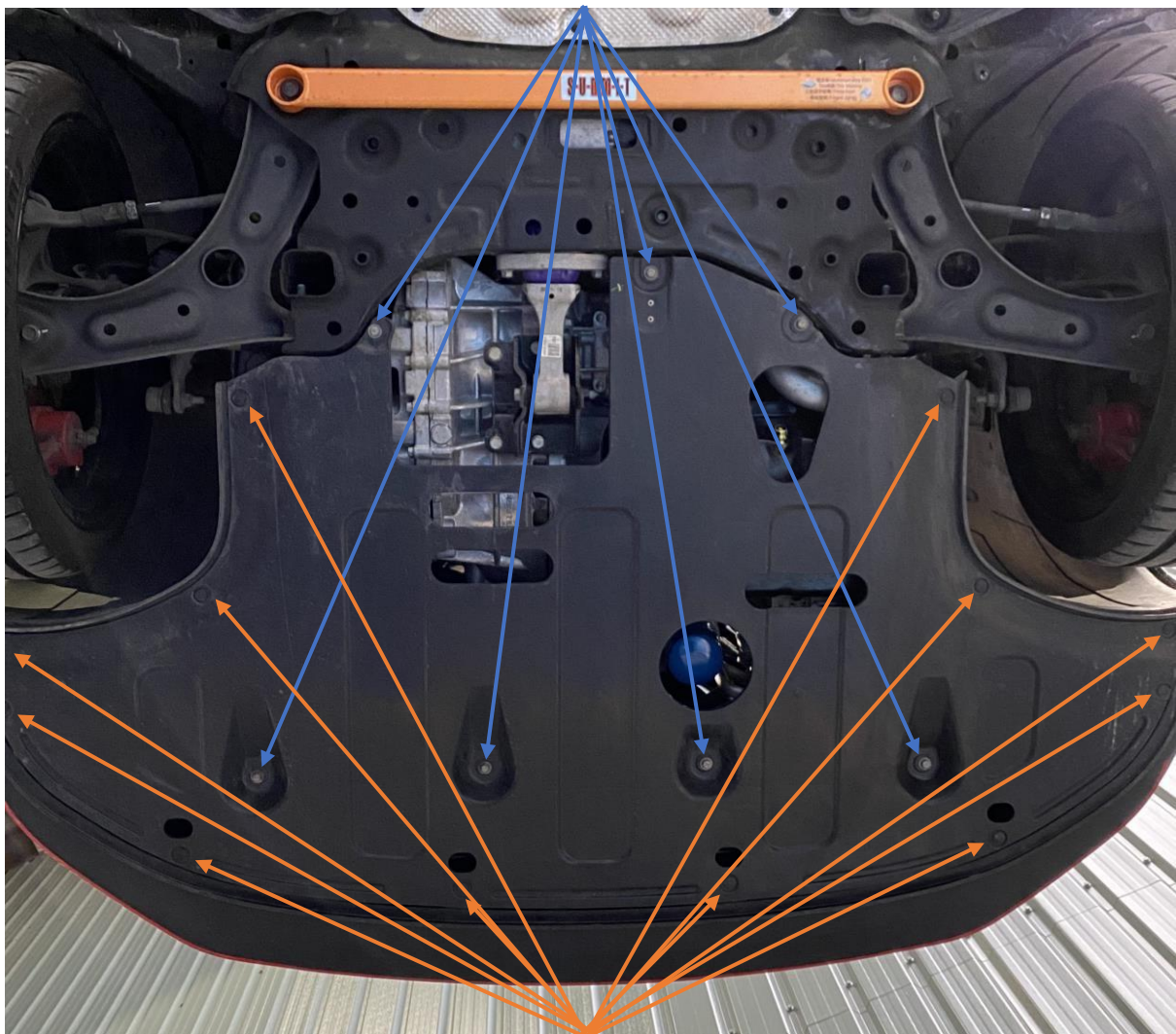
Kit list:

- *AIRTEC Intercooler*
- *2 x silicone joiners*
- *4 x jubilee clips (2 x 70mm, 2 x 80mm)*



Instructions:

1. Open the bonnet and secure, then jack the car up either with a jack and using axle stands to secure or preferably on a vehicle lift.
2. Start by removing the undertray from the car by removing the x 12 plastic clips using a trim removal tool or flat bladed screwdriver, followed by 7 x 10mm bolts. The undertray is then removed by sliding it towards the front of the car.



In both wheel arches there are x 3 plastic clips that need to be removed again removed using a trim tool and then an 8mm bolt.



3. There are 6 x plastic clips to be removed along the top of the bumper under the bonnet.



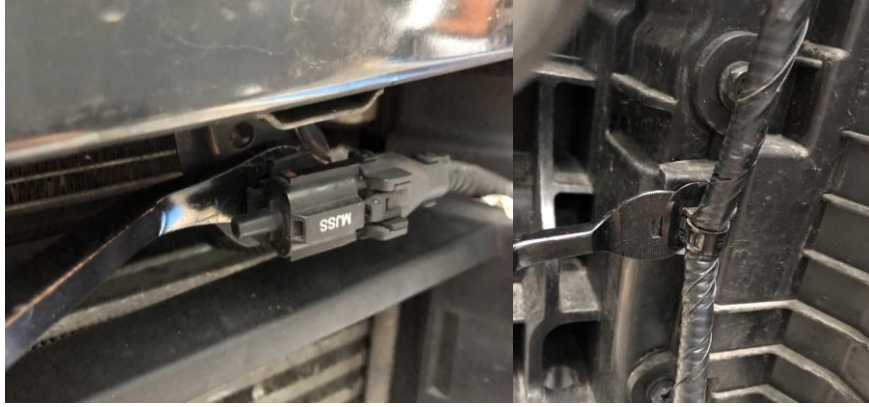
4. The edges of the bumper are now pulled out, best done by pulling from the top corner where the bumper meets the front wing and working your way forward with it as it pops out. This is best done with another person doing the same on the other side so that once both sides are pulled forward one person can support the bumper whilst the other disconnects the 3 x connectors, 2 on the near side and the other on the off side. The bumper can now come away from the car completely and put aside safely.



5. Remove the lower support bar by undoing the 10mm bolt on either side.



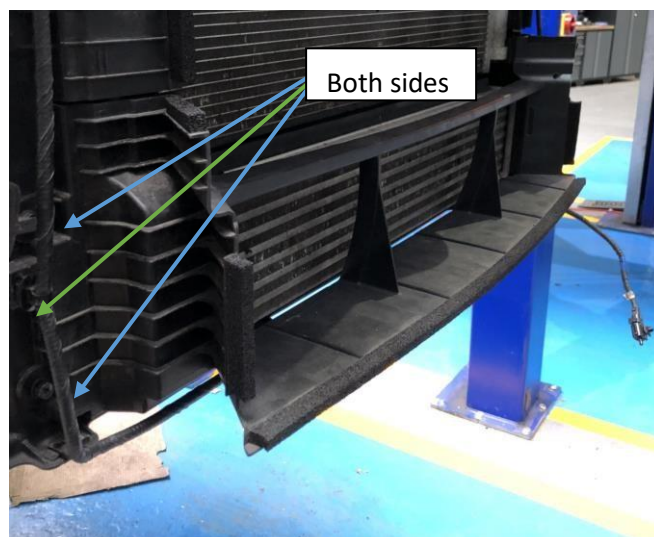
6. Unclip temperature sensor and remove cabling from the shroud.



7. Remove crash bar by undoing the 2 x 10mm nuts each side followed by the 4 x 12mm bolts each side, then tilt the bar forward and pull out. This would be easier for someone to support the crash bar whilst it is being undone.



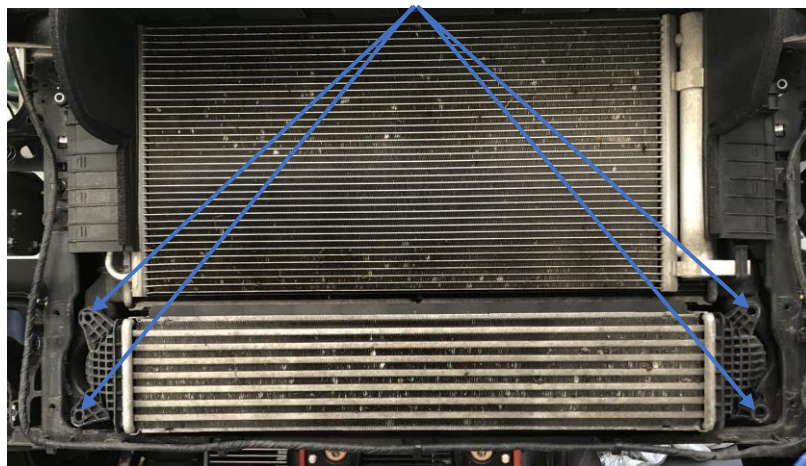
8. Unclip wiring loom from the surround and then remove the surround by undoing 4 x 10mm bolts and pulling the ducting out of the locating pins, the ducting is not refitted with the new intercooler.



9. Undo the jubilee clips holding on both the hotside and coldside hoses enough so that they are free to slide off. To remove them you will need a pair of grips or flat headed screwdriver to remove the cap and then an 8mm socket to undo them. Remove both hoses from the car, these are not used when installing your new AIRTEC intercooler.



10. Remove the intercooler by undoing the 4 x 10mm bolts and pulling it forward away from the car.



11. Before you can install your new AIRTEC intercooler you will need to remove the temperature sensor bracket from the crash bar, this is best done using an angle grinder and then painting over the cut on the crash bar to help prevent rusting.



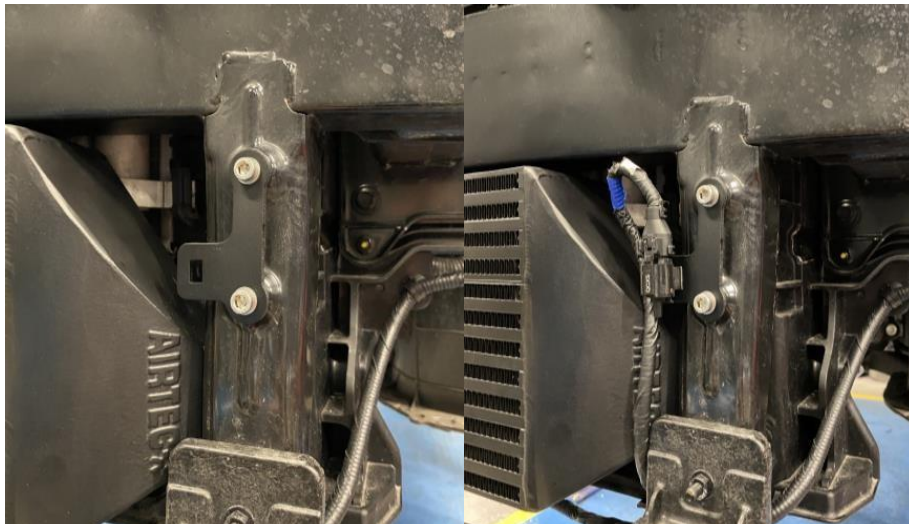
12. Install your new Pro Hose silicone joiners, place them onto the existing hard pipes and leave the jubilee clips provided loose so that you can adjust the fit once the intercooler is in place. Ensure the jubilee clips for both sides are on the hoses. The 70mm ones are for the new hose to the stock pipes and the 80mm ones for the new hose to your new intercooler.



13. Install your new AIRTEC intercooler by angling it in on the left side when looking at the vehicle from the front and then pushing the right side in and fix in place by reusing the 4 x original fixings.



14. Reinstall the crash bar onto the car and then install the supplied bracket using the M6 x 35mm cap head bolts, washers and nylocs to go through the two holes in the crash bar, once installed clip the temperature sensor onto the bracket.



15. You can now reinstall the remaining original parts in the reverse order of the previous steps.