

Audi TTRS 8S Stage 3 Intercooler Fitting Instructions

Tools needed:

- Socket set
- Torx bits (T20, 25, 27, 40)
- Trim removal tool or flat bladed screwdriver
- Thin belt sander or angle grinder

Kit Includes:

- AIRTEC Motorsport intercooler with integrated crash bar
- 2 x Crash bar feet
- 4 x Bracket
- 2 x M12 x 100mm bolts
- 4 x M12 Washers
- 2 x M12 Nuts

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

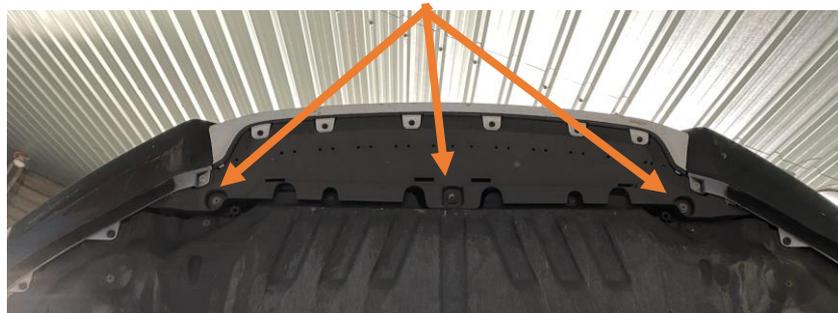


Instructions:

1. Raise the vehicle up in to the air using either a vehicle ramp or jack and axle stands following the manufactures recommendations, open the bonnet and secure.
2. Working under the car start by removing the 2 x T20 each side of the front bumper.



3. Undo the 3 x T25 at the front



4. Working from the top now, use a trim tool to remove the 6 x slam panel clips



5. Remove the bonnet release handle by squeezing in the clip on the back of the handle and pull off.



6. The slam panel can now be removed by pulling it from the edges to unclip it.



7. Undo the T20 on either side holding the top of the bumper on



8. Remove 3 x T20 in each arch



9. Undo the T20 holding the bumper to the wing in each arch



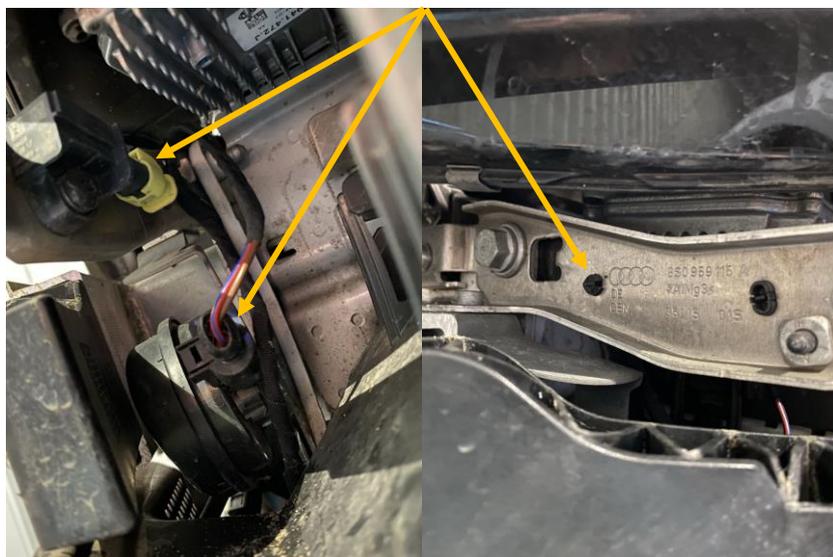
10. Using a second person at this stage pull the edges of the bumper away from the wing to release it, with the bumper pulled forward slightly get the other person to disconnect the plug connecting the wiring from the bumper to the car. Put the bumper safely aside.

11. The next step is to remove the intercooler and crash bar, firstly undo the 2 x T25 on each side that hold the plastic end on to the crash bar.

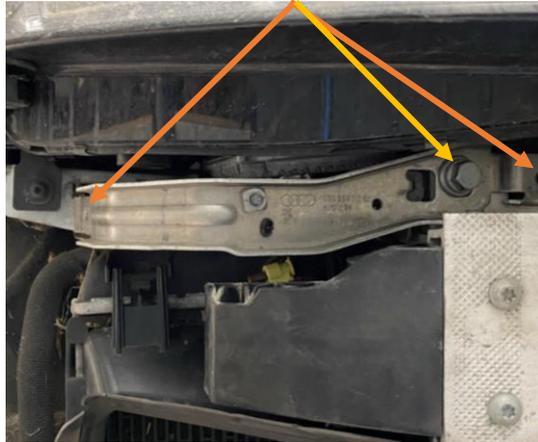


12. Remove the ducting to the auxiliary coolers, It is held in by plastic clips. The top needs to be pushed down slightly to release before it can be pulled out. Take care as the clips can be fragile. On the right hand duct there is wiring attached to it that will need to be unclipped using a trim tool or similar.

13. Unplug the horn and crash sensor wiring on each side and push the wiring clip through to release the wiring from the bracket.



14. Undo the 2 x T25 each side followed by the 16mm bolt holding the bracket to the crash bar. Remove the brackets and set aside.



15. To remove the intercooler firstly loosen the two jubilee clips using a 7mm flexidriver or socket.



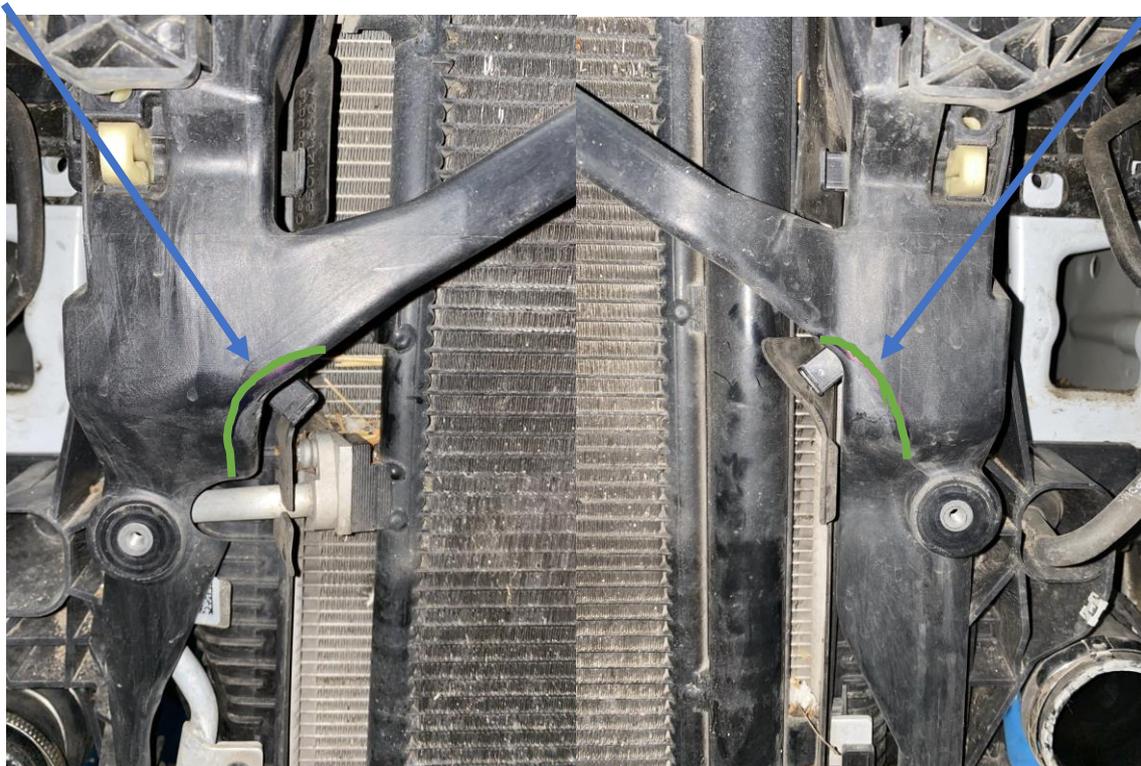
16. Undo the 2 x T25 at the top of the intercooler followed by the 2 x T25 at the bottom holding the intercooler brackets to the car.



17. Pull the intercooler towards the front of the car to remove, retain the lower intercooler brackets as these are reused when fitting your new AIRTEC intercooler.
18. To remove the crash bar undo the remaining 3 x 16mm bolts on each side and then you will need to lift the crash bar up and twist the top edge forward to release it.



19. To fit the new intercooler you will need to modify the plastic rad pack surround, see the marks on the photo below and using a sander or angle grinder remove material. Be very careful to not catch any pipework to the air conditioning condenser. Start by removing a small amount of material in that area and then lining up the intercooler to check clearance and then remove more as needed.



20. Install the new crash bar feet using the original bolts but do not tighten at this stage.



21. Fit the original lower mounting brackets from the stock intercooler on to your new AIRTEC intercooler. Using a second person place the intercooler and crash bar assembly onto the car, insert the two supplied M12 bolts with washers from the bottom through the crash bar foot and intercooler assembly and then use the other supplied M12 washer and nut on the top and tighten.



22. Once the intercooler is in position attach the stock hoses and tighten.

23. Once happy with the positioning of the intercooler and crash bar assembly tighten the bolts holding the crash bar to the car and then tighten the two brackets on the bottom of the intercooler to the car reusing the original bolts.



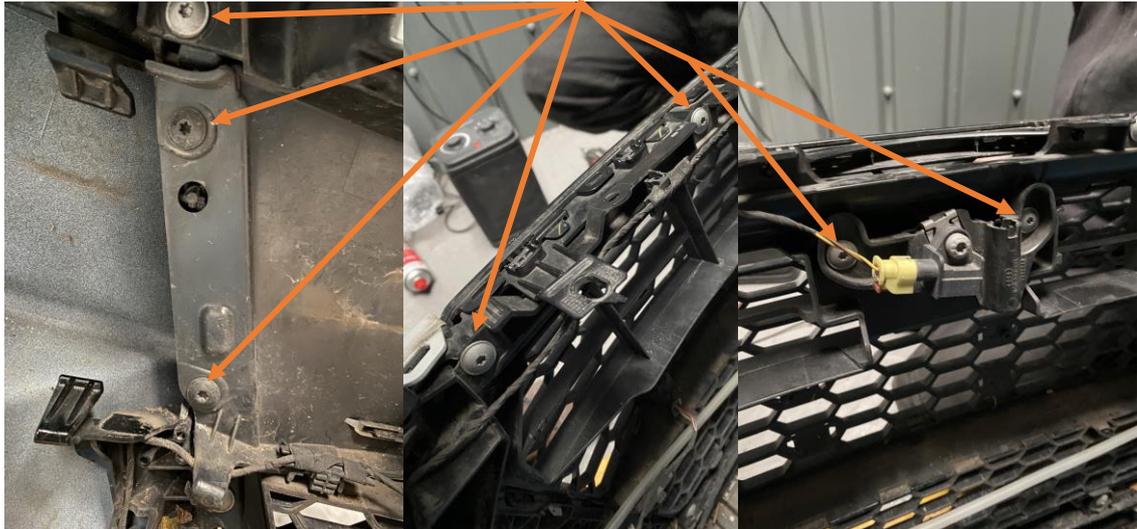
24. Install the air temperature sensor into the bracket on the intercooler as shown.



25. On the inside of the bumper you will need to remove the lower three pieces of foam, the bottom piece is held on with metal clips, use a trim removal tool or flat bladed screwdriver to pry these clips and then pull the foam away. The sides are held in by a plastic clip, release this and pull the pieces out. These are not reused when installing your new intercooler.



26. Remove the foam section in the centre of the bumper, there is a plastic tube running along the inside of the foam, be careful with this as it is a crash sensor. Remove the tubing from the foam but **do not** disconnect it from either end. The foam is held in place by plastic clips, release the clip and then the foam can be pulled away.
27. You will need to remove the plastic framework on the inside of the bumper, this is done by undoing the T25 torx bits along the top and the bottom, then remove the two T25 torx bolts holding the sensor bracket and T25 holding the sensor in, then unclip the wiring that goes along the top of the bumper and lay the sensor bracket assembly aside. The sensor will be relocated.



28. There is metal clips holding the central piece to the bumper, remove these using a trim removal tool or flat bladed screwdriver.



29. Unplug the two parking sensors by pulling the grey tab back and then squeezing the clip together and wiggle the clip apart.



30. There are clips going round the entire inner frame that you will need to release in order to release the upper and middle part together. Gently pull from the edges and work your way round until you can remove the whole piece from the bumper, it is not reused when reinstalling the bumper to the car.
31. Route the tubing mentioned earlier so that it is not kinked or tight, we would recommend you route it under the parking sensors before plugging them back in and then using a cable tie to loosely secure it. It is critical to ensure it is not kinked in any way or any pressure is applied to the tubing by how it is held in as it may bring up a sensor fault in the car otherwise.



32. Install the sensor as shown in place below.



33. Install the four supplied brackets along the top of the bumper as shown reusing the bolts removed when taking the inner frame out, these are used to support the plastic slam panel cover and allows the original trim clips to be reused.



34. The inside of the bumper will also need slight modifications in the lower corners in order to clear the inlet and outlet pipe on the intercooler. Using a sander or angle grinder lightly trim both sides where the clip comes through until it is flush, if it is tight when refitting the bumper then remove more material at these points until happy with the fitment.



35. Reinstall the bumper in reverse of the removal instructions. When reinstalling the slam panel cover reuse the original clips to install it to the four centre holes but there is no longer brackets for the outer two to clip into however the clips can be pushed back in to make it look complete.