

# Ford Ranger 2.2/3.2 TDCi

## Intercooler Fitting Instructions

### Tools Required:

- Ratchet and Socket Set
- Trim Removal Tool
- Phillips Screwdriver
- T25 Torx Socket

### Kit Contents:

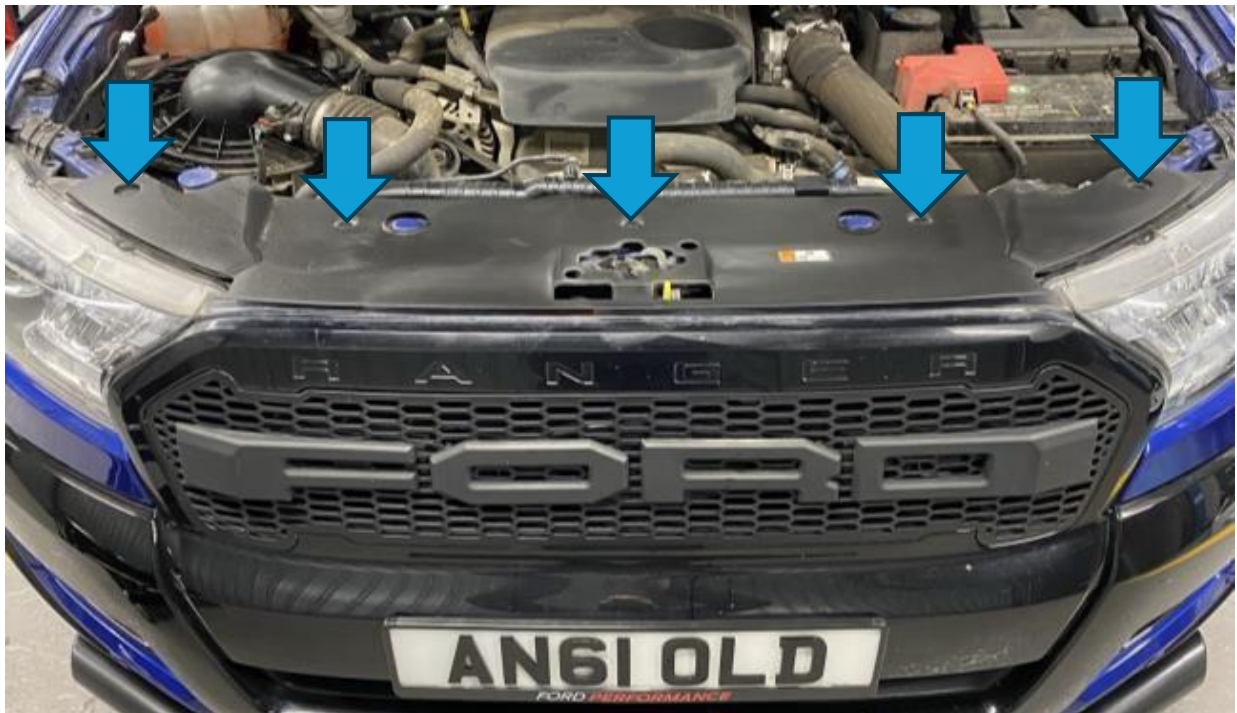
- 1x AIRTEC Motorsport Ford Ranger TDCi Intercooler
- 1x Temperature Sensor Relocation Bracket
- 1x M6x12 Hex Head Bolt
- 1x M6 Washer



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

# Instructions:

1. Start by removing the slam panel trim by removing the five clips on top. There are then six clips on the back of the panel, which you can push in to release.



2. Now undo the two 10mm bolts that attach the top of the grille to the headlights and then use a long extension bar to undo the 10mm holding the bottom of the grille in on both sides.



3. If your vehicle is fitted with a lower bull bar, then remove the nine 10mm bolts underneath where the bumper attaches.



4. Now remove the four Philips screws securing the edge of the bumper to the inner arch liner each side.





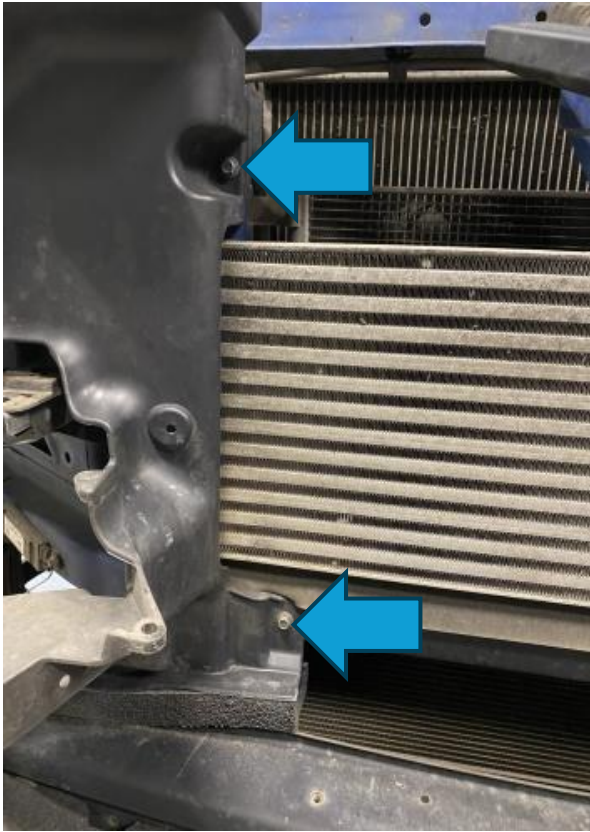
5. Undo the 8mm bolt holding the bumper to the wing on both sides.



6. Pull the corners of the bumper to release and then with the help of a second person to hold the bumper, unclip any electrical plugs.



7. Remove the plastic air guides from the car by undoing the two 8mm bolts securing each side in place (blue arrows). On the right-hand side air guide, you will also need to remove the ambient air temperature sensor (orange arrow). Do this by using a trim tool or flat-blade screwdriver.



8. Remove the MAP sensor from the intercooler by undoing the T25 Torx bolt holding the sensor in.

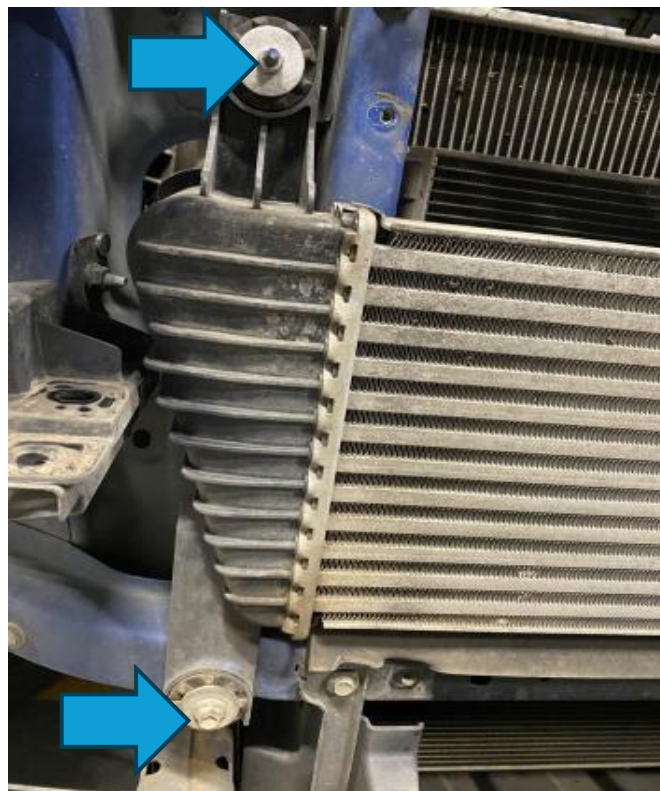




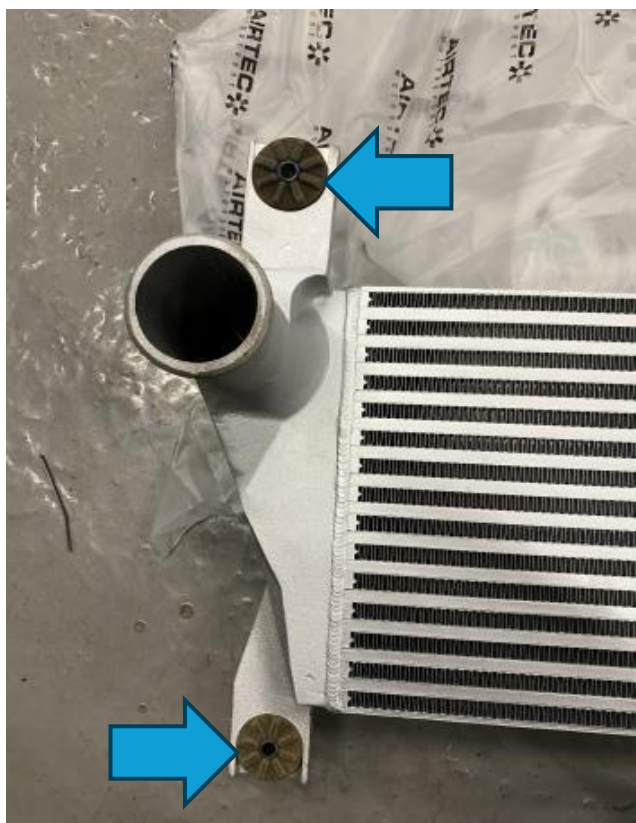
9. Loosen the jubilee clips holding the boost hoses to the intercooler and then disconnect them.



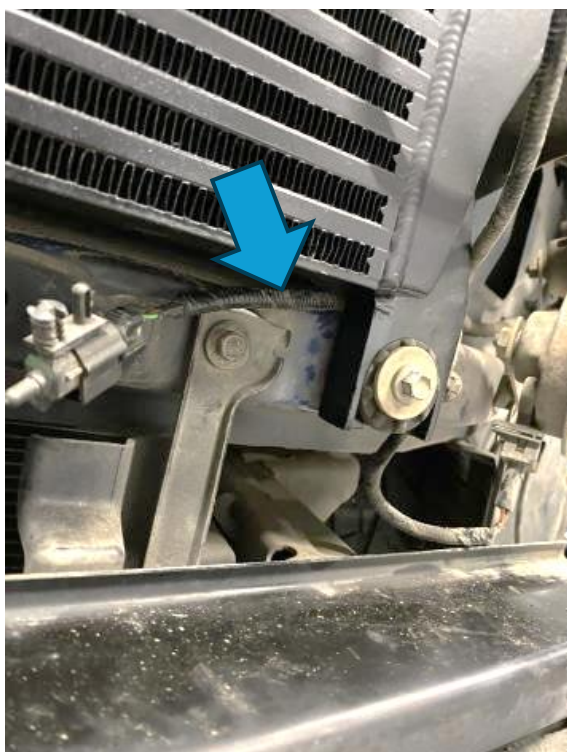
10. Now remove the intercooler by undoing the 10mm bolt and two 10mm nut securing each side in place.



11. Before fitting the AIRTEC Motorsport intercooler, remove the rubber bushings from the top and bottom of the original intercooler and refit them to your new intercooler.



12. Install the intercooler to the vehicle reusing the original nuts and bolts – but **BEFORE** securing the bottom right-hand side bolt, run the temperature sensor down and behind the lower right-hand side, as shown. Then refit the MAP sensor using the original Torx bolt.





13. Fit the temperature sensor relocation bracket supplied in the kit to the existing hole highlighted using the bolt and washer provided. You can then insert the sensor into the bracket.



14. Finally, reinstall the boost hoses back onto the intercooler and tighten the jubilee clips. You can then reinstall the bumper in the reverse of removal.

