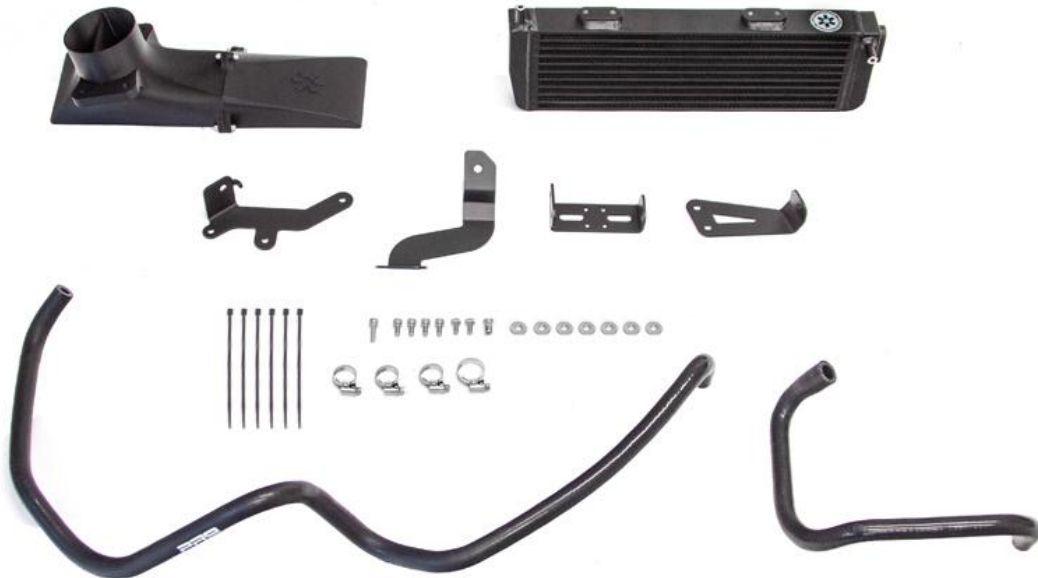


AIRTEC Fitting Instructions

M O T O R S P O R T

Vehicle:	Ford Fiesta ST180
Product:	Turbo Cooler
Part number:	ATMSFO141



Kit Contents:

1x AIRTEC Motorsport Turbo Cooler Radiator	2x M6x12mm Hex Head Bolts
1x AIRTEC Motorsport Front Bumper Scoop	1x M6x20mm Socket Head Bolt
1x Pro Hoses Hose 1 (Long)	7x M6x15mm Washers
1x Pro Hoses Hose 2 (Short)	3x M4x22mm Socket Head Bolts
1x AIRTEC Motorsport Bottom Mounting Bracket	3x M4 Nyloc Nuts
1x AIRTEC Motorsport Middle Mounting Bracket	6x M4 Small Washers
1x AIRTEC Motorsport Top Mounting Bracket	3x 16mm Jubilee Clips
1x Horn Relocation Bracket	1x 20mm Jubilee Clip
1x M6 Rivnut (16.25mm Height)	6x Large Cable Ties
4x M6x12mm Socket Head Bolts	

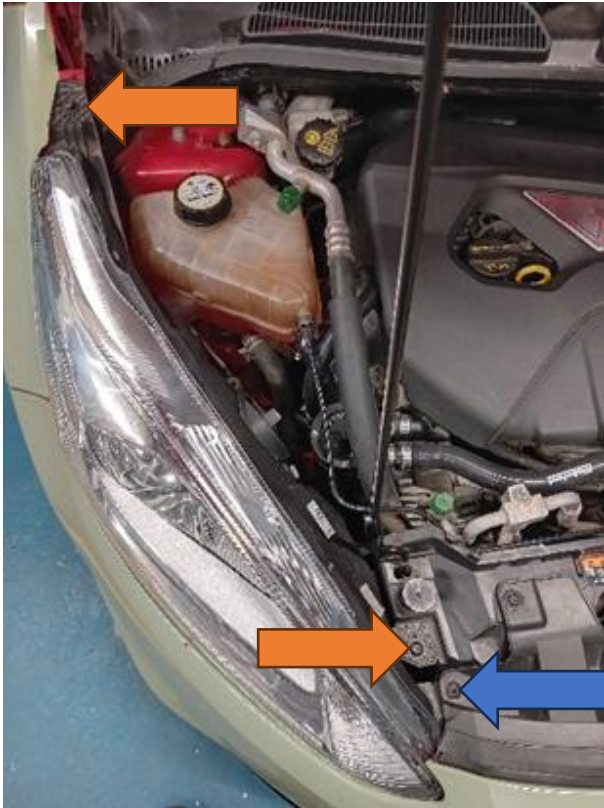
Tools Required:

Ratchet and Socket Set	Hack Saw
Spanner Set	Rivnut Tool
Allen Key Set	Side Cutters
Torx Socket Set	Jubilee Clip Driver/Flat-Blade Screwdriver

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

Instructions:

1. Start by removing the headlights. To do so, remove the two T30 screws (orange arrows) and the plastic push pin (blue arrow) on each headlight. Then lift the headlight enough to disconnect the multi plug (green arrow) on the underside.



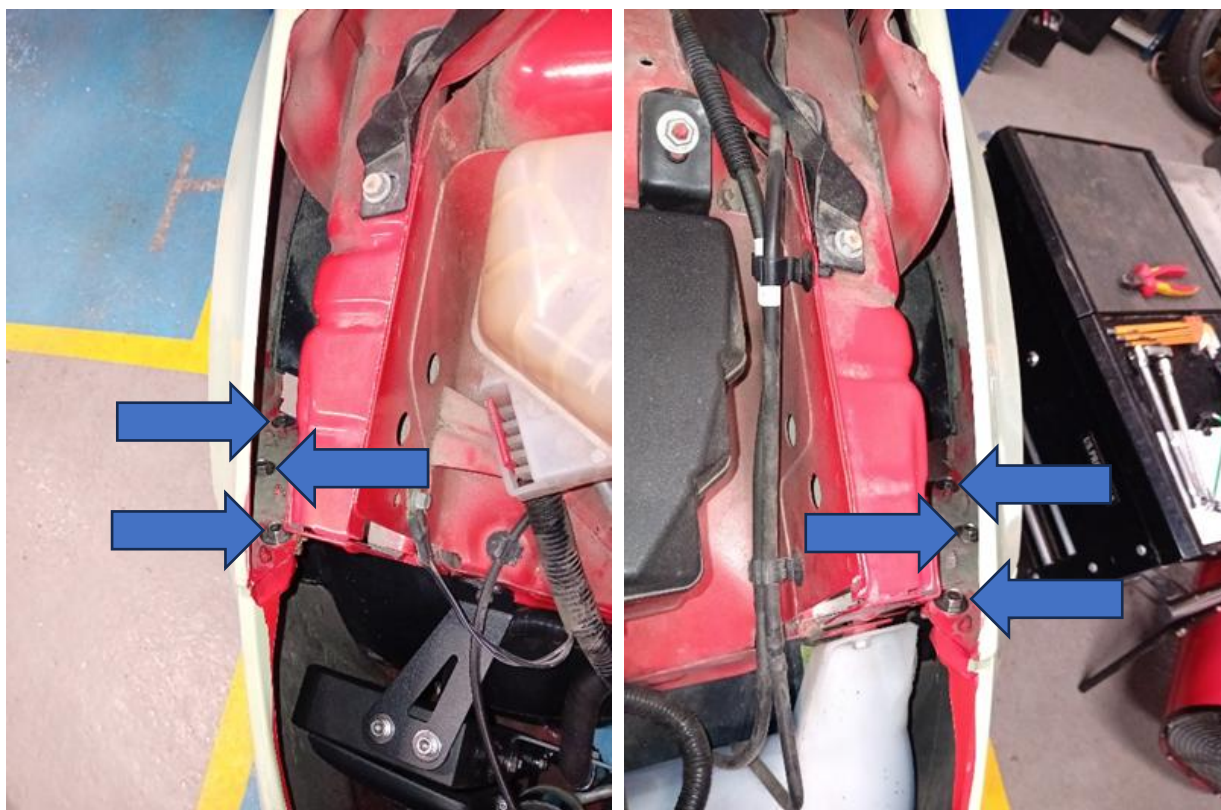
2. Next, remove the four T30 Torx screws on the inside of each inner wheel arch liner.



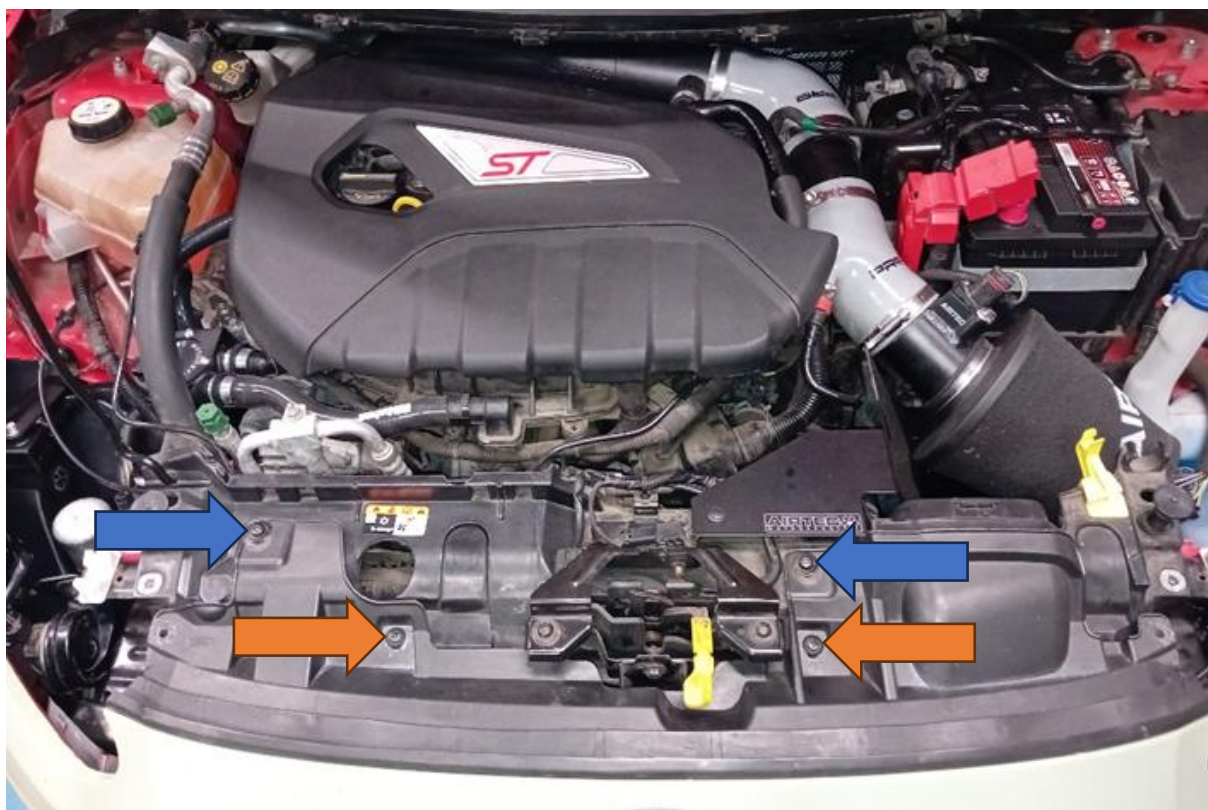
3. Working under the car, remove the two plastic push fittings on each side of the bumper. These are located just in front of the wheel arches.



4. Move back into the engine bay and locate the six 10mm bolts securing the sides of the bumper on. There are three on each side.



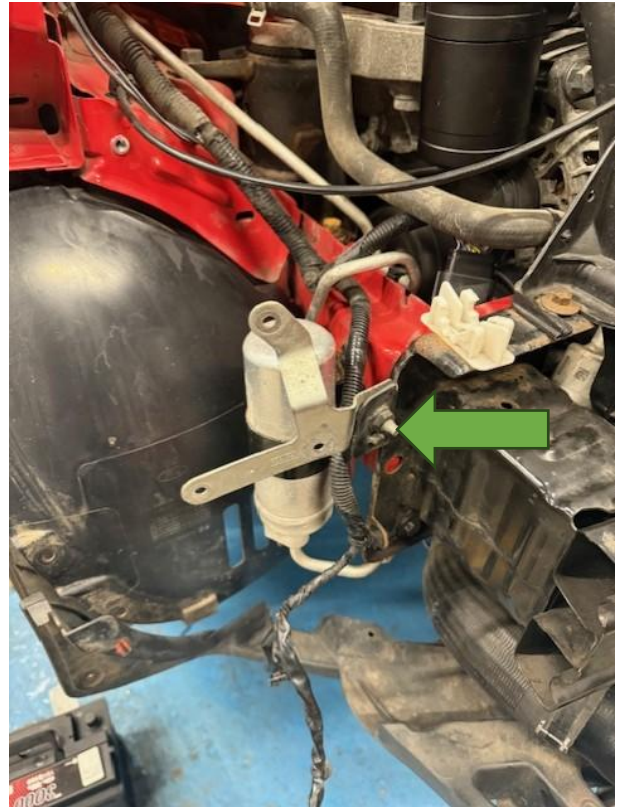
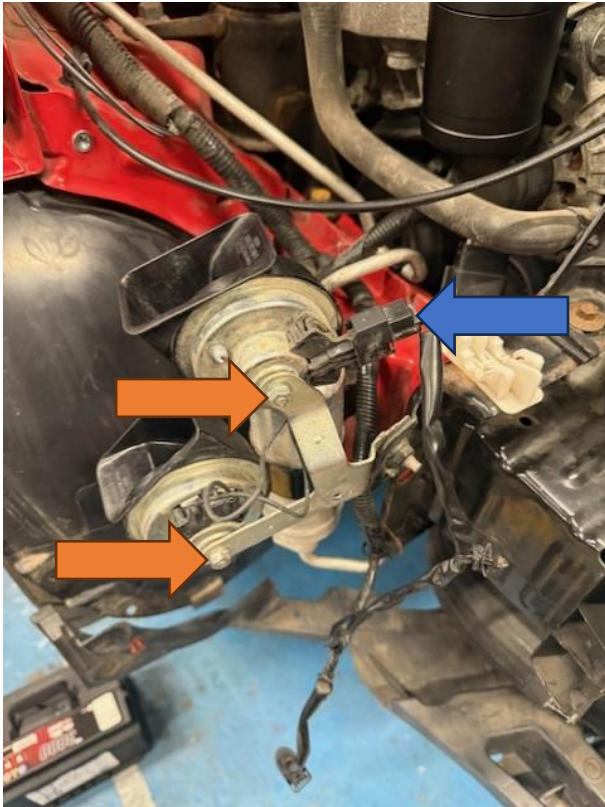
5. Remove the two T30 Torx bolts (blue arrows) and the two plastic push fittings (orange arrows) securing the top of the bumper. It can then be removed by pulling it forwards and disconnecting the fog lights.



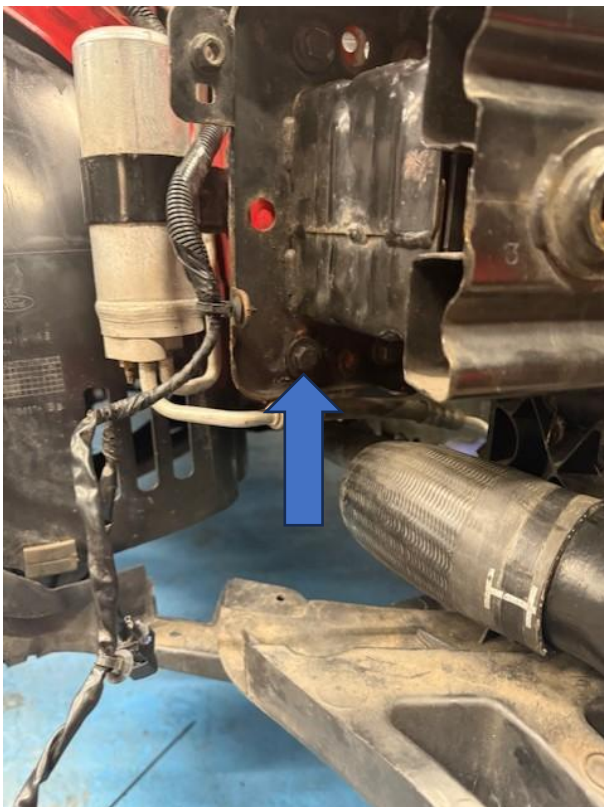
6. Locate the 10mm hole in the chassis on the left-hand side just above the wheel arch and install the M6 Rivnut provided in the kit with a Rivnut nut tool. Make sure it's secure as the radiator mounts to this.



7. Remove the horns by disconnecting the wiring loom (blue arrow) and both 10mm nuts (orange arrows). You can then remove the mounting bracket by undoing the 10mm bolt (green arrow).



8. Locate and remove the 13mm bolt on the crash bar (blue arrow) and then install the AIRTEC Motorsport bottom mounting bracket as shown by reusing the bolt.



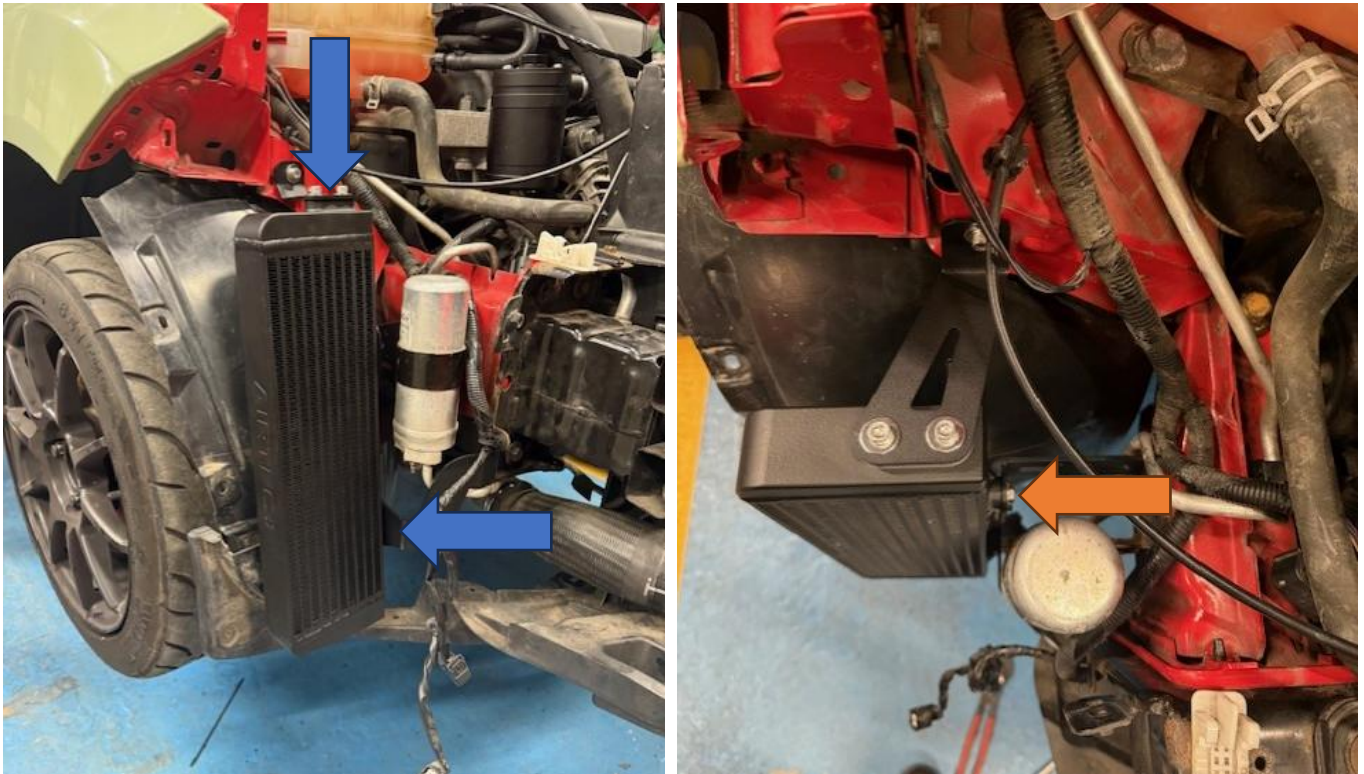
9. Locate and remove the 10mm nut securing the air-conditioning receiver drier (blue arrow) and then install the AIRTEC Motorsport middle mounting bracket as shown by reusing the nut.



10. Secure the AIRTEC Motorsport top mounting bracket in place with the M6x20mm Socket Head bolt and washer supplied in the kit fitted to the Rivnut mounted in Step 6.



11. Now fit the AIRTEC Motorsport turbo cooler to the three mounting brackets. Secure the top and bottom of the radiator with the four M6x12mm Socket Head bolts with washers supplied in the kit (blue arrows) and the middle with two M6x12mm Hex Head bolts with washers provided (orange arrow).



12. Install the AIRTEC Motorsport horn relocation bracket supplied in the kit reusing the bolt removed in Step 7.

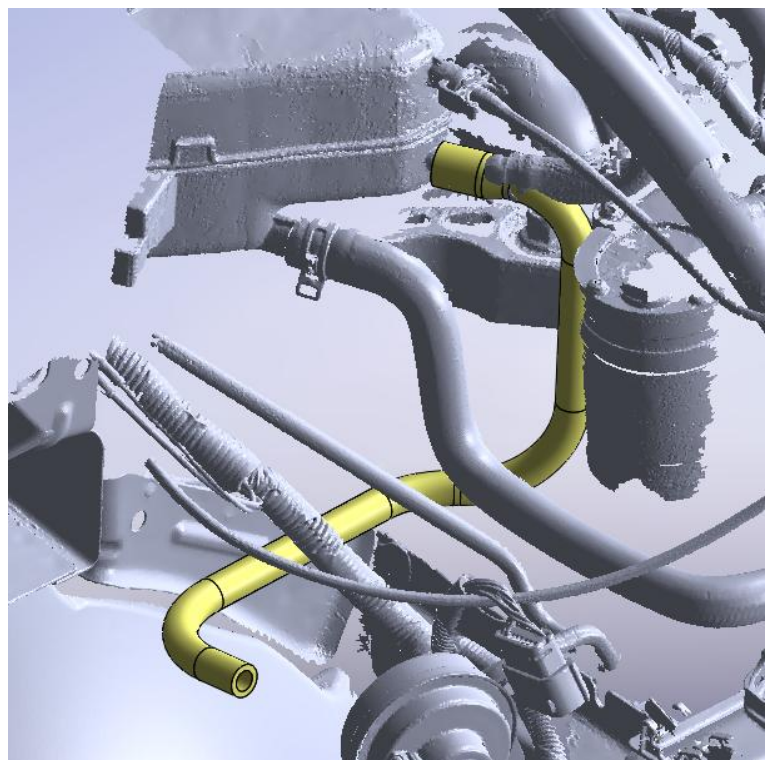


13. Fit the horns as shown reusing the 10mm nuts removed in Step 7 and then cable tie the fog light wiring up and away behind the horn bracket.



14. Now install the small silicone hose supplied in the kit to the top outlet of the radiator and secure with a jubilee clip provided. Place the other end of the hose with the larger jubilee clip supplied in the kit to the area by the header tank outlet, but do not connect yet.

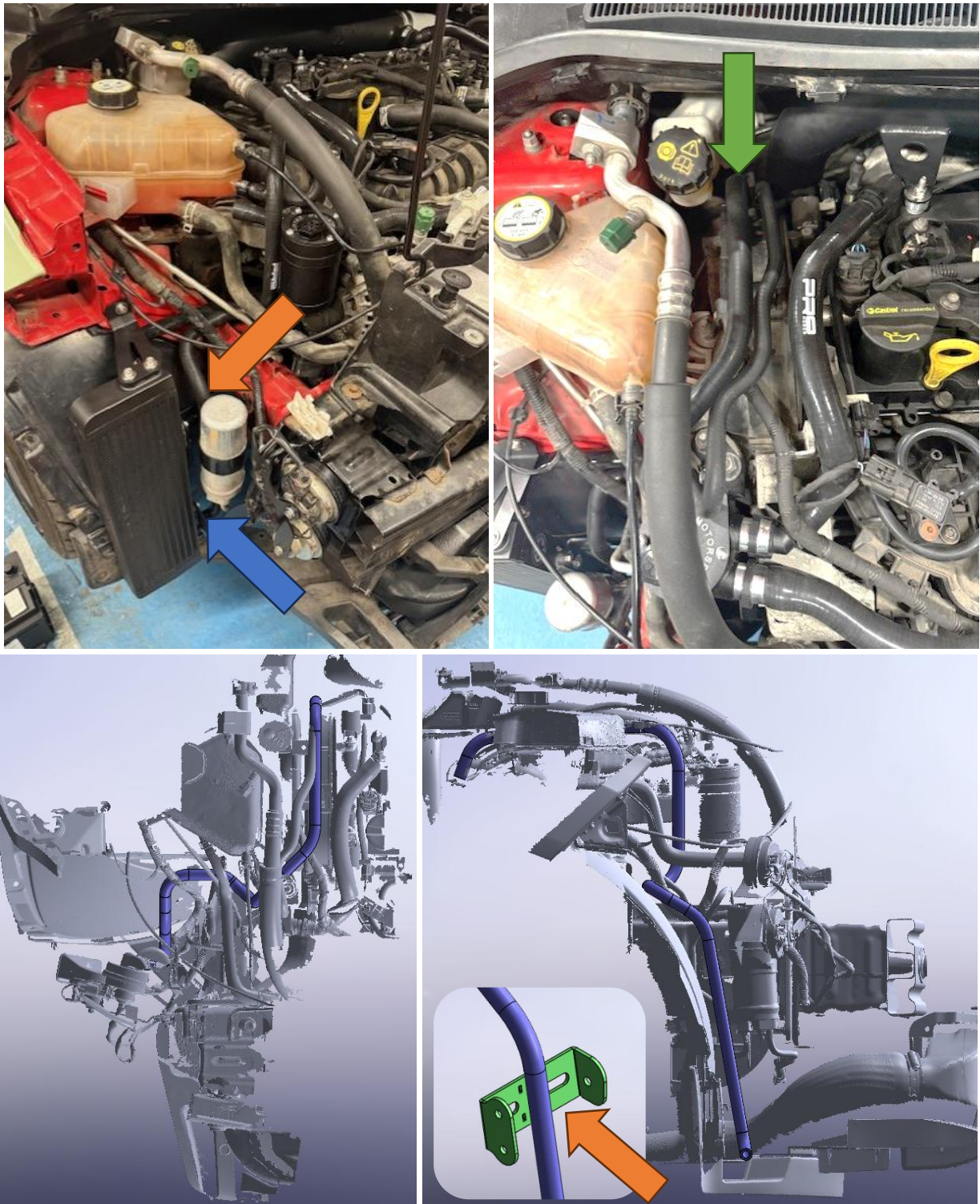
Make sure the hose passes under the wiring loom, air-con hardline and original coolant hose, as shown using the yellow dotted lines and CAD model to help locate the route for the hose.



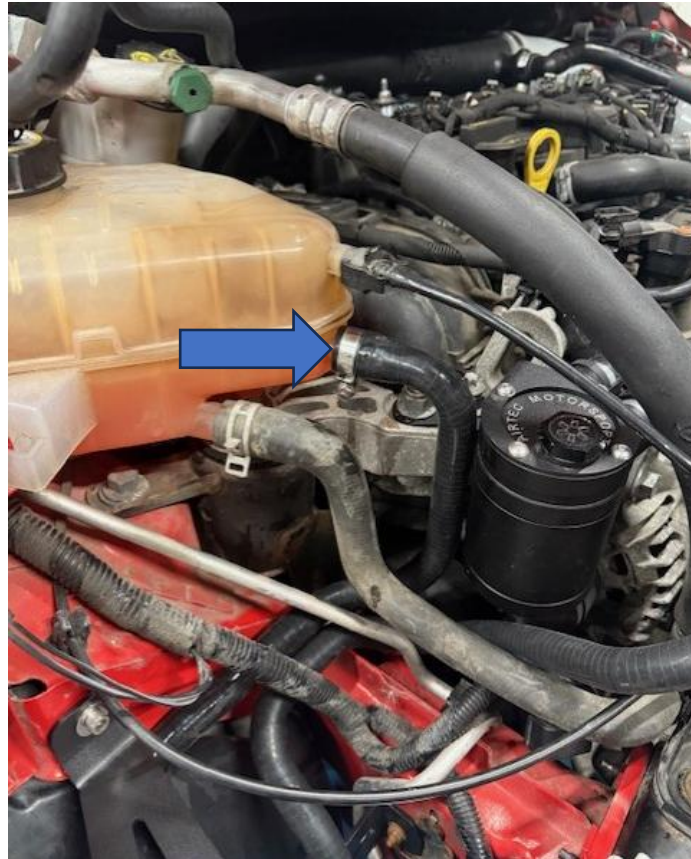
15. Now remove the engine cover and install the longer silicone hose by connecting the 90-degree end to the bottom outlet of the radiator (blue arrow) and secure with a jubilee clip supplied in the kit. Make sure the hose passes in front of the middle mounting bracket (orange arrow).

Feed the other end of the hose up and over the top of the engine to the area by the turbo coolant outlet (green arrow).

Use the CAD model to help locate the route for the hose.



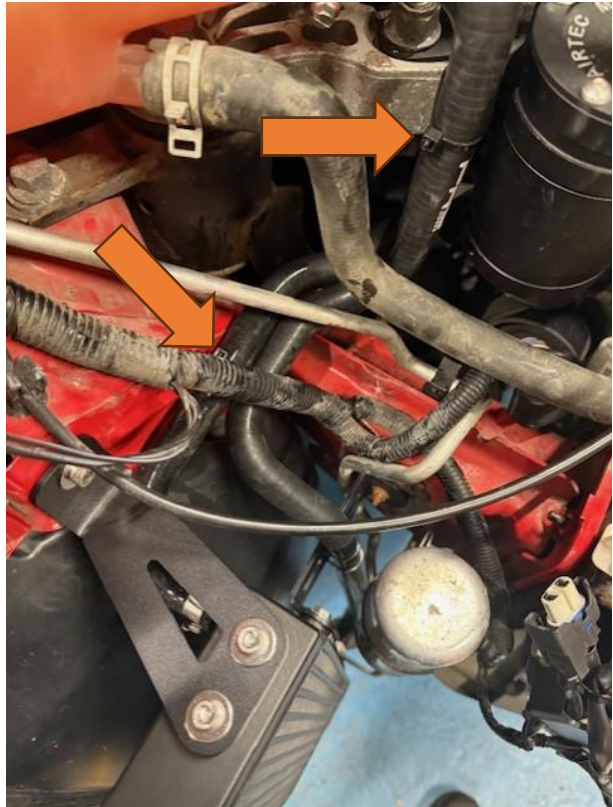
16. Now disconnect the original header tank hose, connect the new hose and secure the jubilee clip (blue arrow). Have something on hand to clean and contain any spillage.



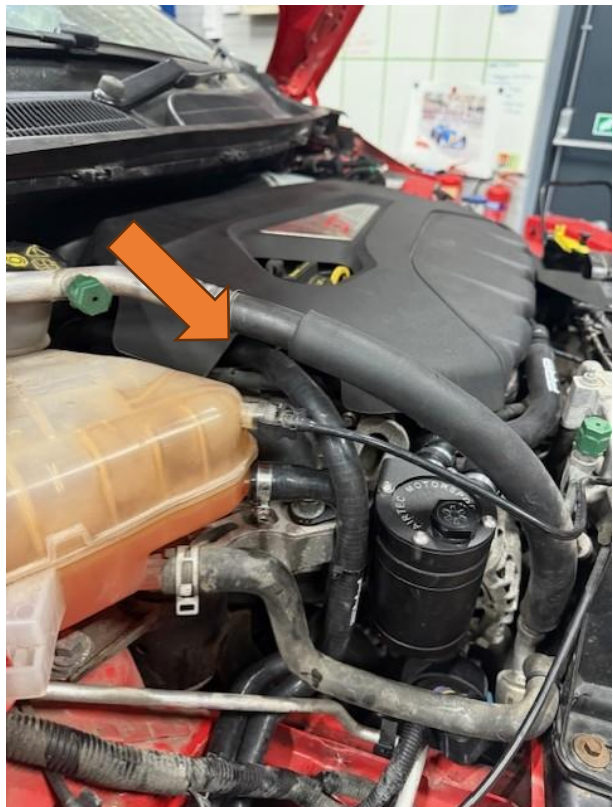
17. Disconnect the turbo coolant outlet and remove the entire hose from the car. You can then connect the new hose and secure with a jubilee clip (blue arrow). Have something on hand to clean and contain any spillage.



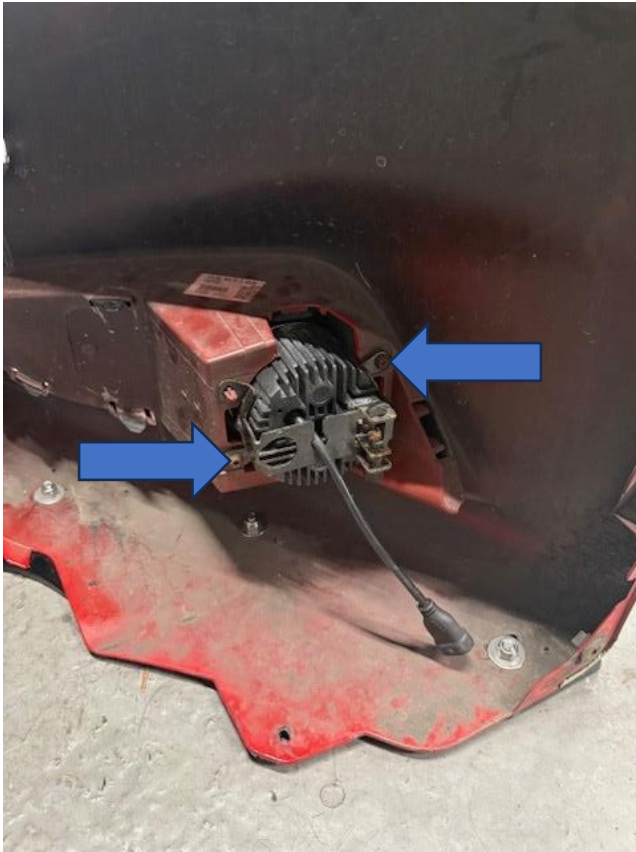
18. Use cable ties provided to secure the hoses. Two cable ties are used to secure the bottom hose to the slots in the middle bracket (blue arrow) and another two secure the hoses together further up (orange arrows).



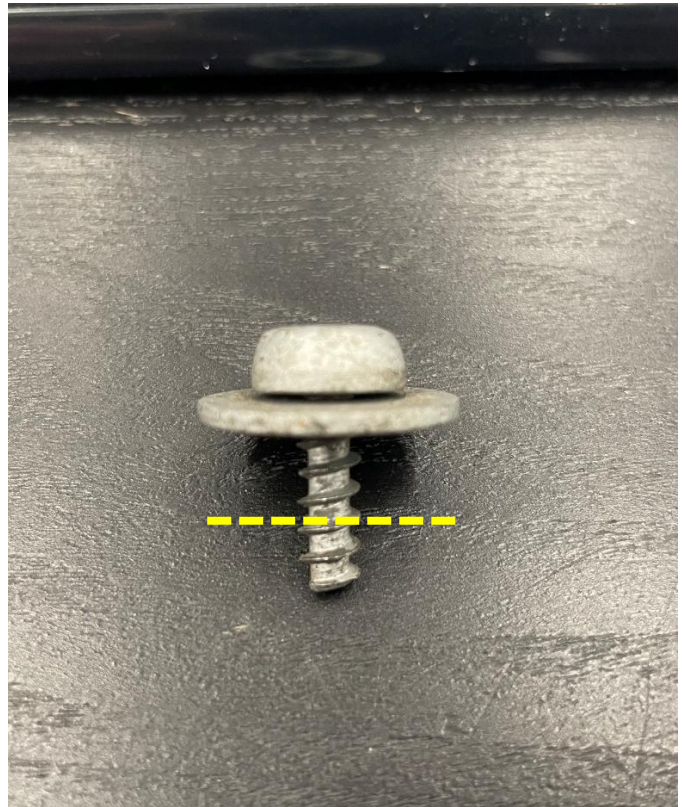
19. Use the last cable tie to secure the top hose (blue arrow). You can then reinstall the engine cover by ensuring the hose passes through the cut out in the engine cover (orange arrow).



20. Before refitting the bumper, remove the fog light by undoing the two T30 Torx bolts and replace it with the AIRTEC Motorsport turbo radiator scoop supplied in the kit, reusing the same bolts to secure.



21. You can now refit the bumper, **but before refitting the screw that secures the inner wheel arch liner to the bumper, you must use a hack saw to shorten it, as the end of its thread will contact the radiator.**



22. For extra air flow we also recommend carefully extending the existing slots in the inner wheel arch liner further up to allow more air to exit at the back of the radiator.



23. Finally, refit the headlights. Make sure everything is tight and secure and the coolant is topped up to the correct level after the car has been run up to temperature.

