

# Toyota Yaris GR Big Boost Pipe Kit

## Fitting Instructions

### Tools Required:

- Ratchet and Socket Set
- 12mm Spanner
- Jubilee Flexi-Driver or Flat-Blade Screwdriver
- Allen Key Set
- Trim Removal Tool or Flat-Blade Screwdriver

### Kit Contents:

- 1x AIRTEC Motorsport Cast Aluminium Throttle Body Elbow
- 1x Aluminium Cold Side Pipe
- 1x Aluminium Hot Side Pipe
- 4x Pro Hoses Silicone Hoses
- 1x M8x12mm Cap Head bolt
- 1x M8 Washer
- 2x 60mm Jubilee Clips
- 8x 70mm Jubilee Clips



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

## Instructions:

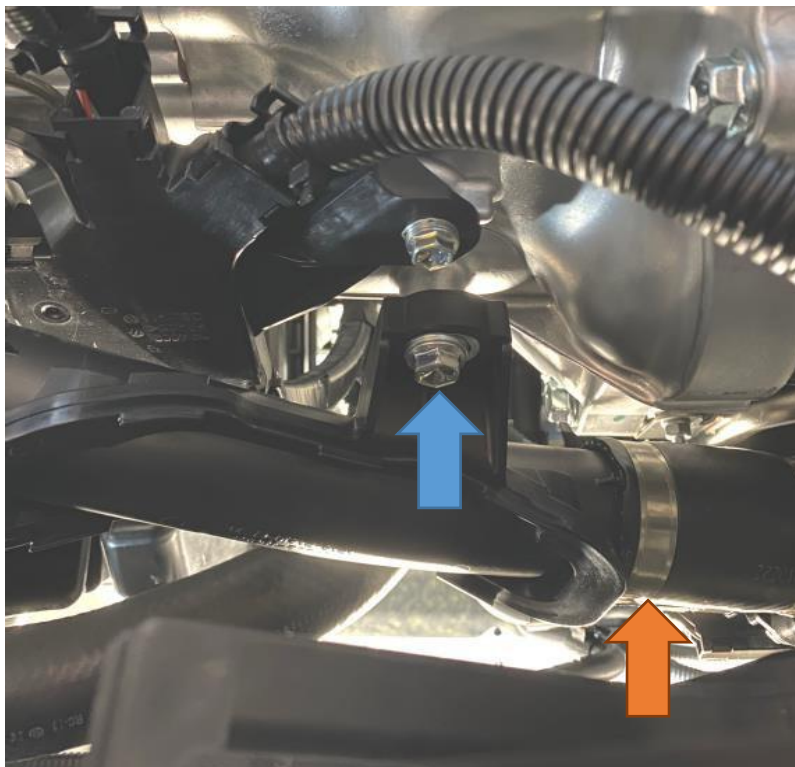
1. From underneath, release the undertray by removing the four 10mm bolts (highlighted in blue) attaching it to the bumper, followed by the four 10mm bolts (highlighted in blue) further back. Then work round removing the 12 plastic clips (highlighted in orange) situated around the undertray using a trim removal tool.



2. With the undertray removed, start by undoing the jubilee clip you can now release the original boost pipe from the intercooler.



3. Undo the jubilee clip (orange arrow) and then undo the 12mm bolt (highlighted in blue) securing the pipe to the gearbox and remove it from the car.

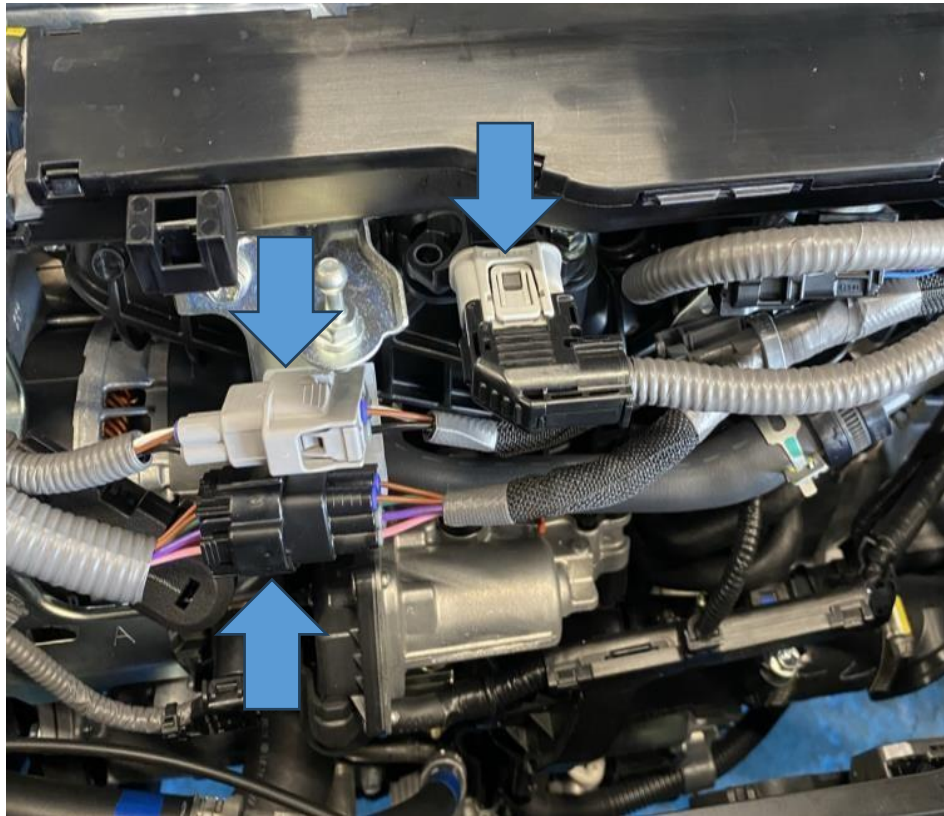


4. Now open the bonnet and remove the engine cover by firmly pulling up on each corner to release it from its rubber mounts.





5. Next, you need to disconnect these three plugs located at the front of the engine.

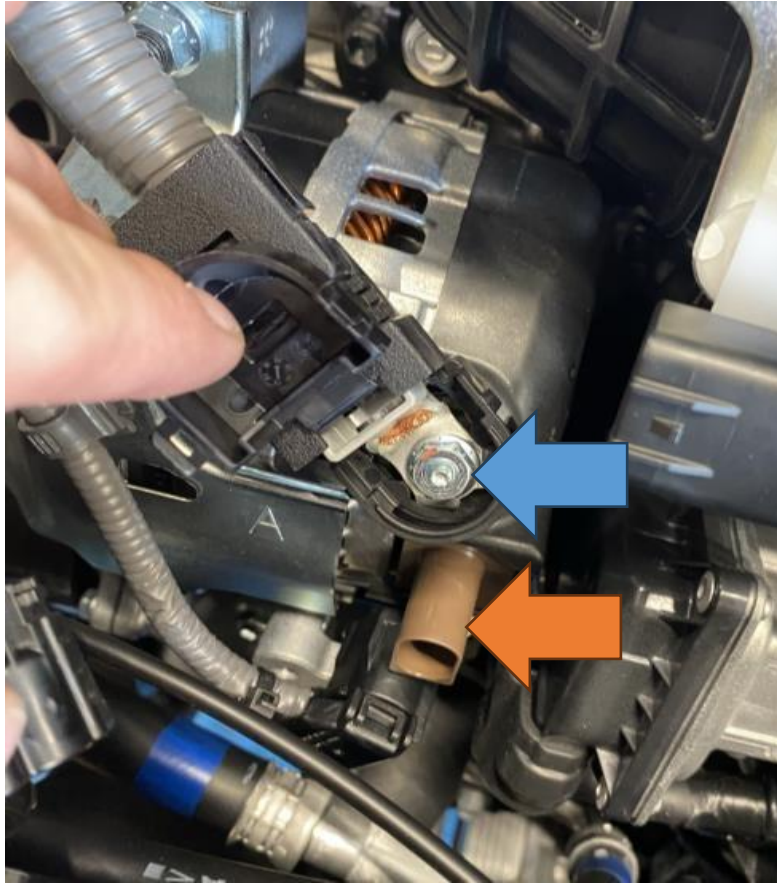


6. Locate the battery, which is under the boot floor of the car and disconnect the negative terminal.

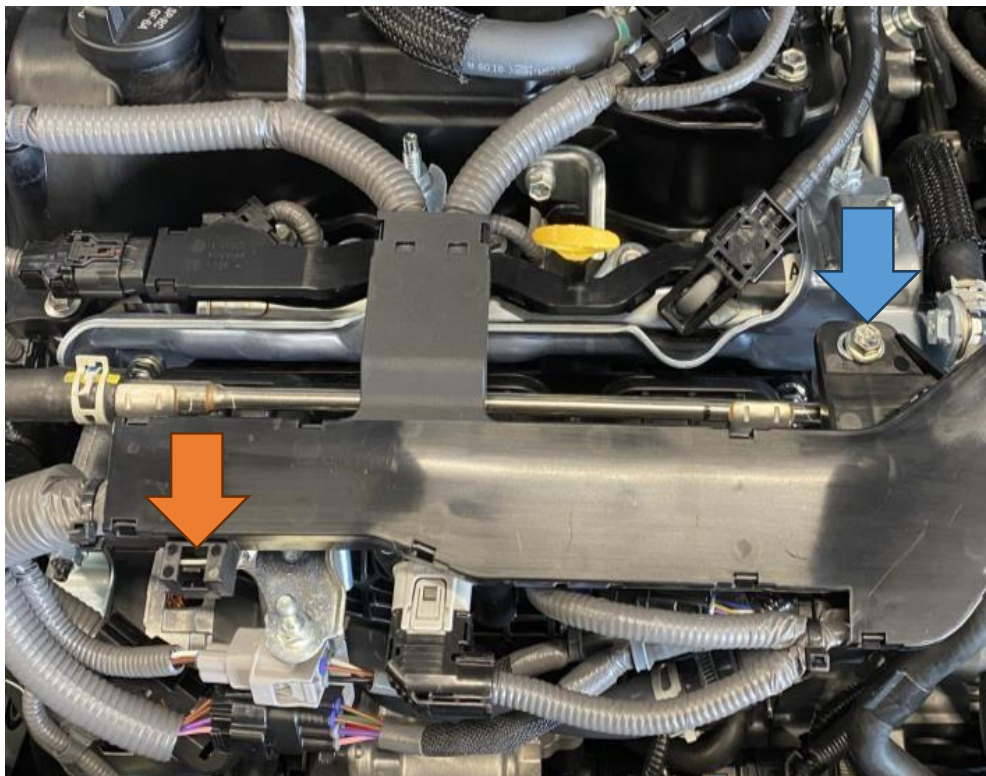




7. Lift the plastic tab on the alternator connection and undo the 10mm nut (blue arrow) and unclip the plug below it (orange arrow).



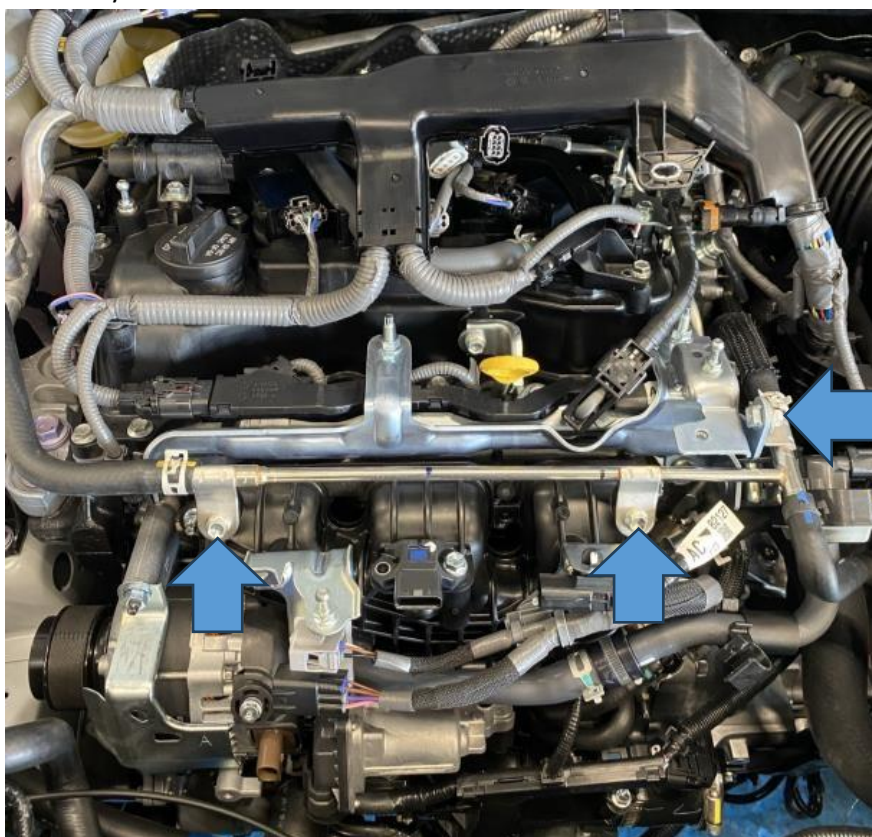
8. Undo the 10mm nut (blue arrow) and then release the push clip (orange arrow) holding the wiring harness in place. Fold the wiring loom back so it is out of the way.



9. Unclip the coolant line from the breather line by removing it from the clip.

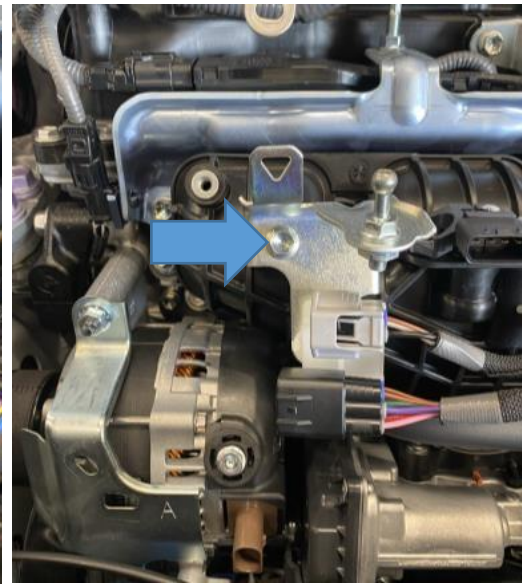
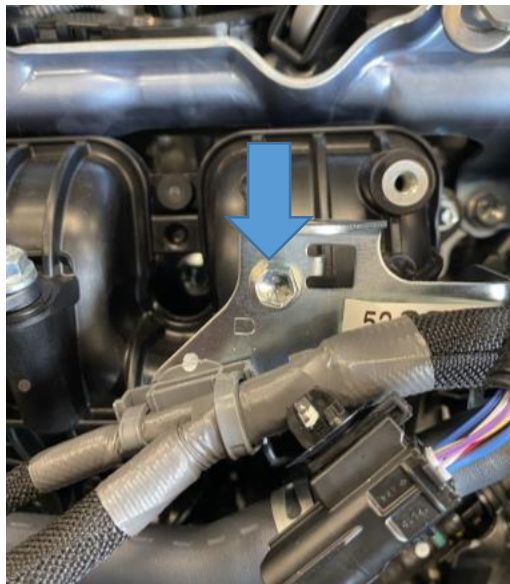


10. Undo the three 10mm bolts holding the coolant hard pipe above the inlet manifold and move the pipe back so that it is out the way.





11. Unclip the plug by squeezing either side and pulling it down. It will reveal a 10mm bolt; remove this and the one holding the plugs on the other side and move the wiring harness out of the way.



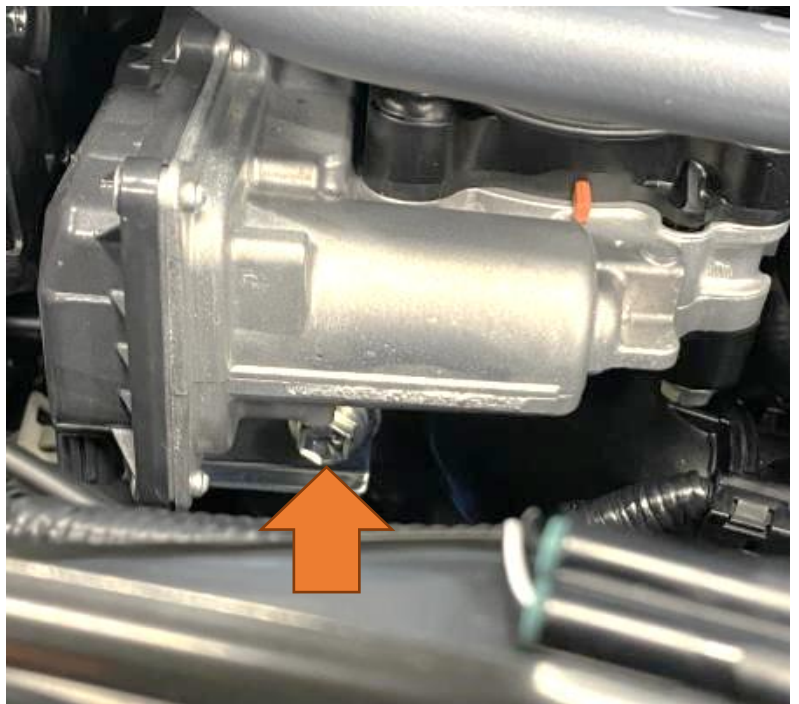
12. Locate the covered cable below the hoses as shown. Follow it along to the plug underneath and unclip it by pushing the blue button and pulling the plug backwards.



13. On the right-hand side of the engine, locate and disconnect the breather hose by carefully pulling it back.

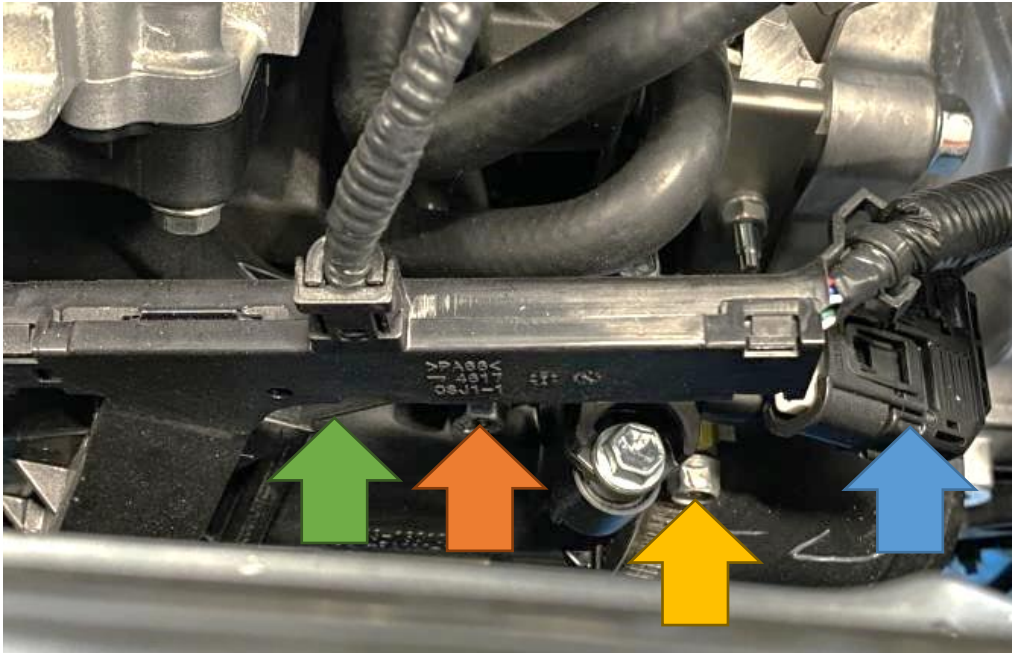


14. Locate the 12mm bolt (blue arrow) on the throttle body and loosen by a couple of turns **but do not remove it**. Then **remove** the second 12mm bolt (orange arrow) going into the throttle body elbow. The bracket should then move down out of the way.

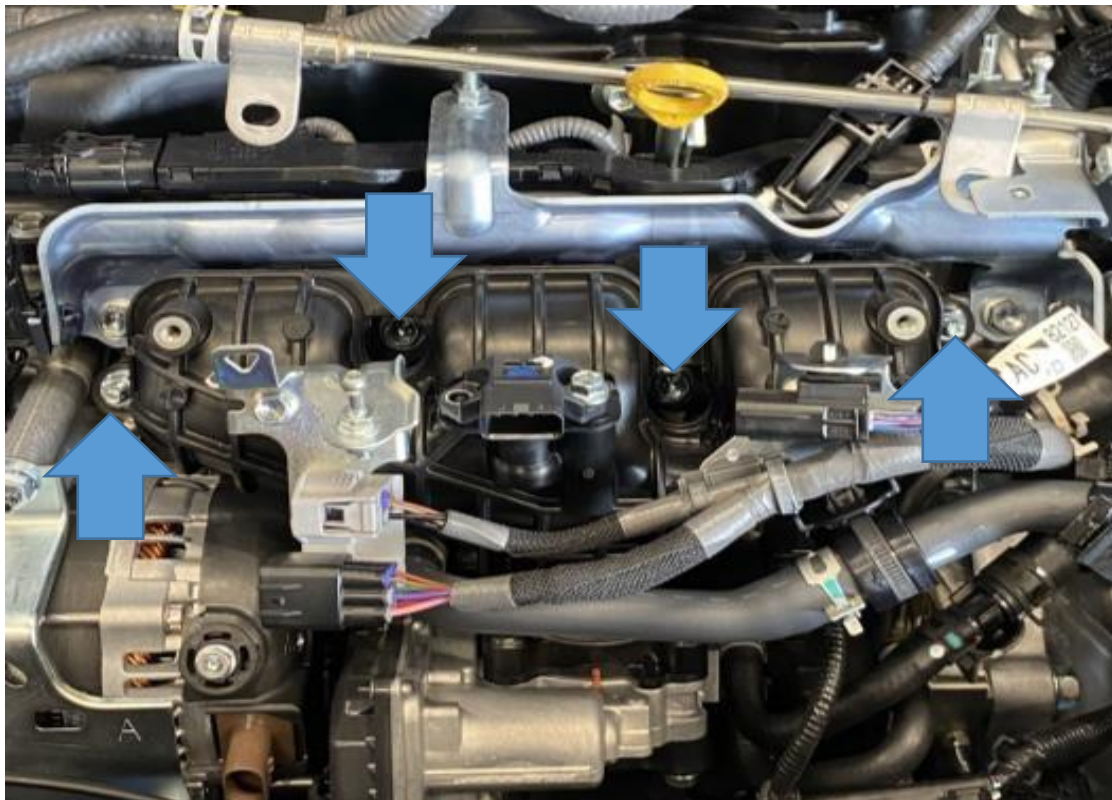




15. Unplug the MAP sensor (blue arrow) and remove the 10mm bolt (orange arrow) holding the wiring harness to the throttle body elbow. Then use a trim tool or flat-blade screwdriver to unclip the wiring harness from underneath (green arrow) and move it forwards and out of the way before using a jubilee flexi-driver to undo the jubilee clip (yellow arrow) attaching the hose to the elbow.



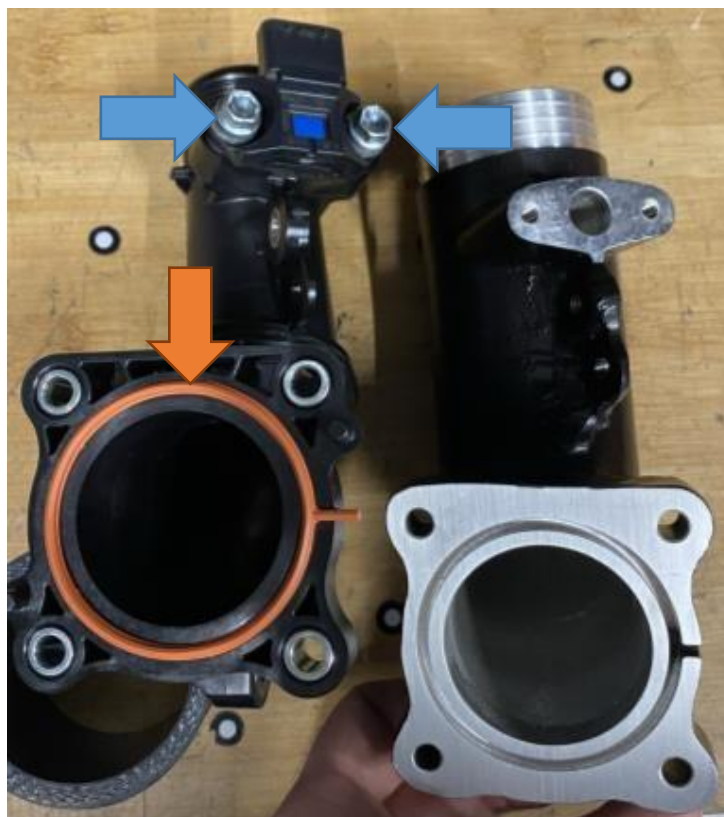
16. Undo the two 12mm nuts and two 12mm bolts (blue arrows) to loosen the inlet manifold. The throttle body has coolant lines going to it and so the inlet manifold cannot be removed from the car. Instead, rotate it to the right and position it so that you can get access to the throttle body elbow bolts. It is highly recommended you cover the inlet ports whilst you follow the next few steps to avoid the possibility of something dropping into it.



17. Loosen the four 10mm bolts (blue arrows) holding the plastic elbow to the inlet manifold. The throttle body also becomes loose at this stage. Remove the plastic elbow from the car.



18. Undo the two 10mm bolts holding the MAP sensor to the elbow and swap it on to your new AIRTEC Motorsport elbow re-using the original bolts. Remove the gasket (orange arrow) from your original and place it into the groove on your new one.





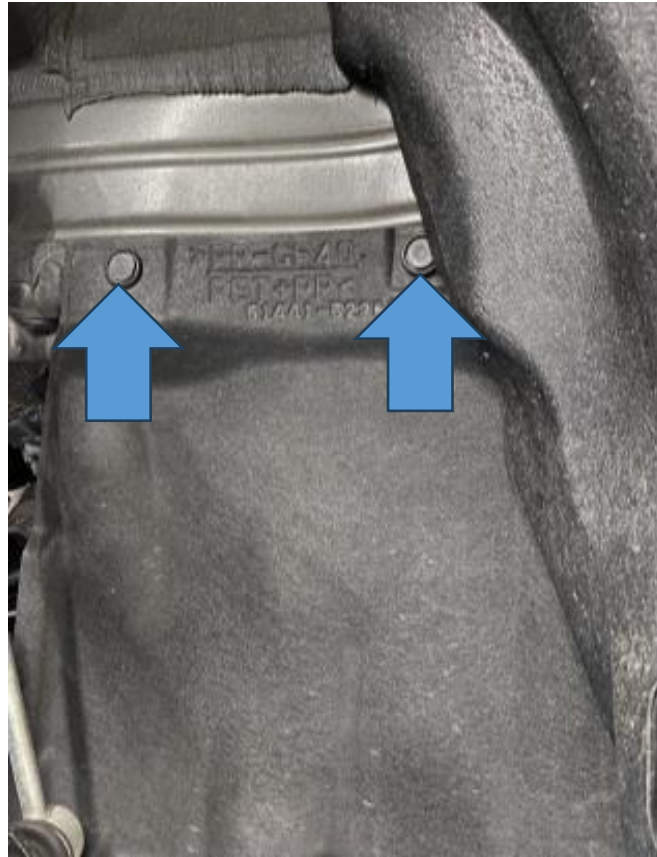
19. Re-install your new AIRTEC Motorsport elbow back onto the car by re-using the original bolts, making sure you sandwich the throttle body in between the elbow and the inlet manifold. You can then refit the inlet manifold in reverse of removal.



20. Connect the supplied silicone coupler with the jubilee clips provided onto the end of the throttle body elbow and then install the larger/straighter aluminium hard pipe supplied in the kit using the M8 Cap head bolt and washer provided. You can then connect the larger supplied silicone hose to the intercooler with the jubilee clips provided and once happy with the positioning fully tighten.



21. To install the hot side of the pipework you will first need to remove the panel inside the right-hand side wheel arch by removing two plastic trim clips.



22. Locate and undo the jubilee clips securing both the silicone hoses to the intercooler and to the turbo. Then undo the two 10mm bolts securing the pipework to the car and remove the whole assembly.





23. Insert the new supplied silicone hoses onto the turbo and intercooler with jubilee clips provided, but do not tighten at this stage.



24. Finally, install the new pipe and once happy with the position reuse the original bolts to install on to the car, tightening the left-hand bolt first. Once installed and happy with the positioning tighten the jubilee clips. You can then refit the wheel arch panel and then refit the undertray in reverse of removal.

