Yaris GR

Carbon Air Filter – Fitting Instructions

Version v1.1

The following instructions are for the fitting of a replacement air filter for the Yaris GR – Mark 1.

Tools Required:

Cross Head Screw Driver – Medium
Ratchet (3/8 drive) with 15mm Socket

10mm socket and various extension bars
15mm Spanner
Snips

Parts to be used:





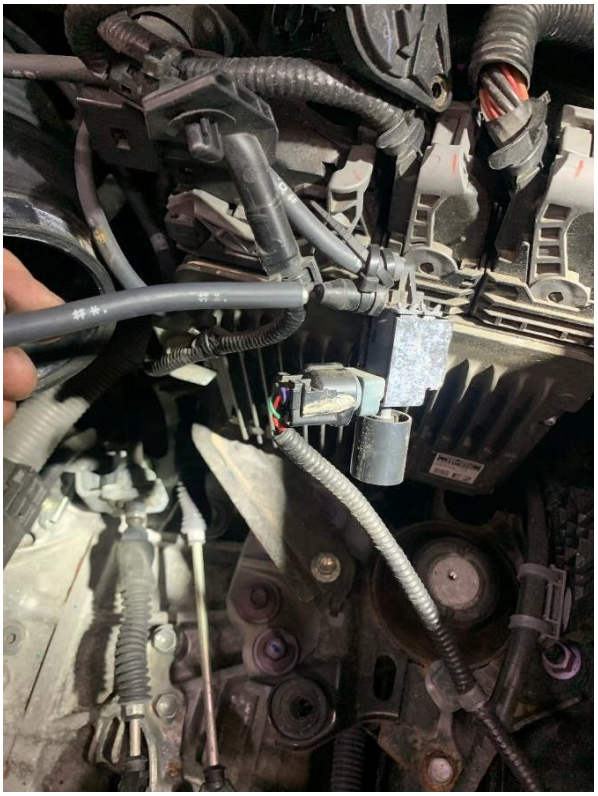


Remove the existing air filter just before the mass airflow sensor point, the sensor should be removed, however, the flexible pipe should be left in place ready to attach to the new carbon fibre air filter.



The above core parts should have now been removed from the vehicle and the area clear ready for the installation of your new Carbon Air Intake.

Remove the vacuum tube between the original air filter box and the DENSO vacuum control unit. Then fit the small bung, item number 10 rubber bung to the DENSO vacuum control unit. Then using zip tie 2, tie the cables together to move them out of the way.





Remove the mass airflow sensor itself, as this fits to the new aluminium air intake pipe.

Install Lug 3 with screw 8 to the underside of the larger air filter box and tighten with a 15mm spanner.



Install brackets 1 & 2 to the larger air filter box using screws 5 (2 no.), do not tighten at this stage but remember to tighten later when the air filter is fitted.



The above picture shows the two brackets fitted.

Install MAF tube on the outside of the main air filter box, and the bell mouth on the inside of the larger air filter box using 4 x Screws 9. These should be tightened.

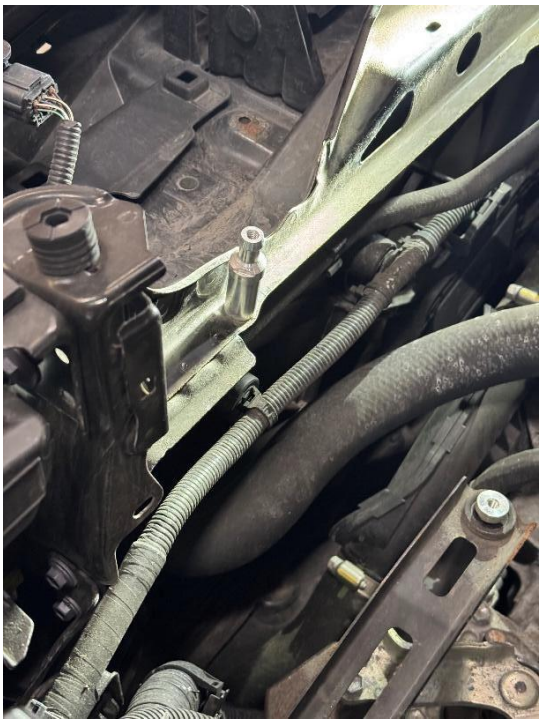


Install large rubber bung 10 into secondary carbon ram air pipe.

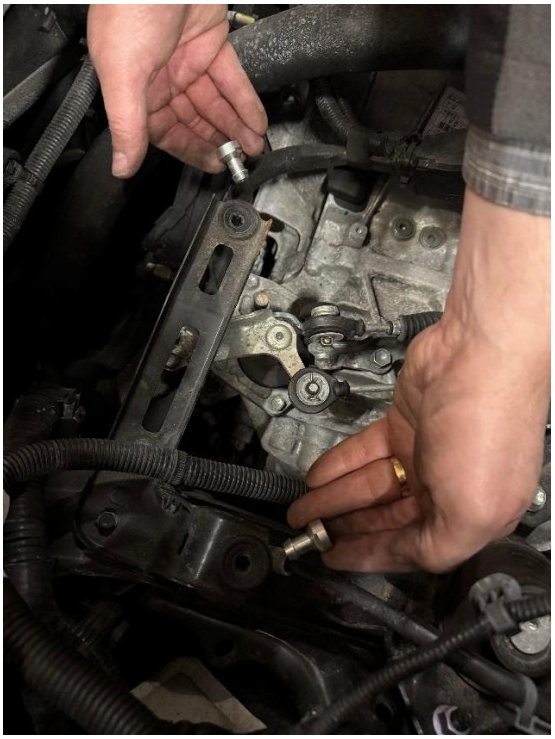


Install 1 x aluminium Lug 3 and alloy spacer tube 10 to the front cross member using bolt 7, tighten

using a 15mm spanner.



Install 2 x aluminium Lug's 3 into the existing rubber grommets on the chassis leg L bracket. Lightly oil the tips of both Lugs 3's before inserting. These are where brackets 1 and 2 will eventually mount.



Insert the air filter cone into the main air filter box, nose inwards to create a seal with the rubber seal attached to the cone. Install the stainless steel clamp at the same time as the cone, and add both carbon parts together to create a sandwich, hold the filter between the two carbon parts.

Make sure the stainless clamp thread is only inserted two turns into the receiving thread nut for ease of installation. Please note: The alan key head on the clamp should face upwards. Ensure both carbon fibre pieces are set correctly within the V Band clamp and the secondary air pipe rotates one full turn, inspecting the clamp as you turn to make sure both flanges are within the V band clamp. Do not fully tighten at this stage.







Now offer this assembly into the engine bay, taking note of the position of the lugs 3 and original air pipe connection.



On offering the entire assembly into the engine bay, put your hand underneath the main air box and make sure the Lug 3 on the bottom of the main air box marry's into the rear most rubber grommet on the vehicle and Lug 3 on the front cross member is married into large grommet 10 on secondary carbon ram air pipe.

Align brackets 1 & 2 with the both Lug 3's on the chassis L bracket and vertically insert screw 5 (2 of)

Now tighten screws 6 (2 of) first and then secondly tighten both screws 5 (2 of) you may need to hold lugs 3 with an open ended spanner as you tighten screws 5on the chassis L bracket



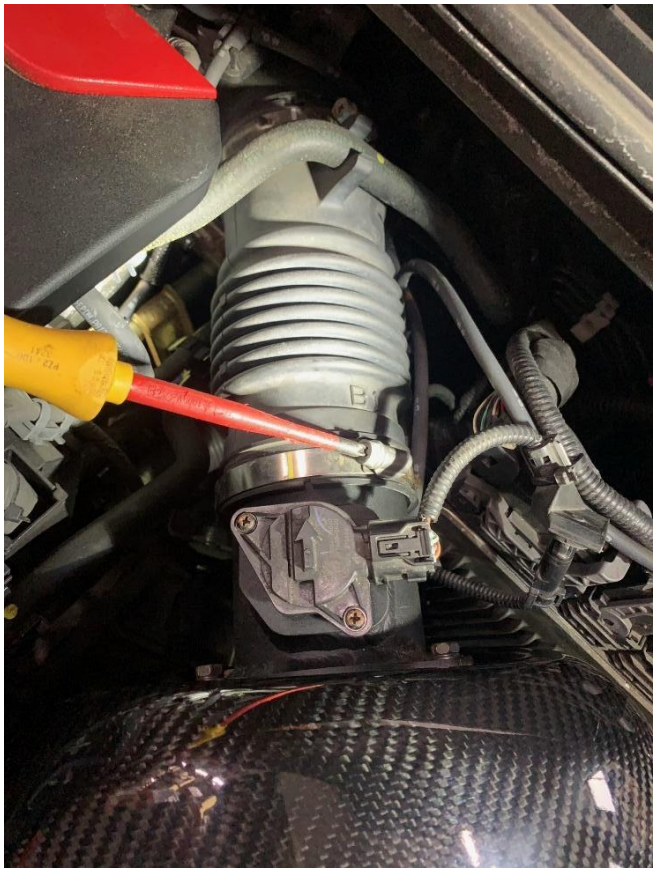
Finally, tighten the stainless steel clamp with an allen key between the carbon ram pipe and the main air filter box.



Now insert the air flow sensor into the open port on the top of the aluminium MAF tube and use 2 x Screw 4 and O ring 4 to fix in place.



The next step is to tighten the jubilee clip between the flexible hose and MAF aluminium tube.



You should have no fixings left and everything should be firmly in place.

Congratulations you are now ready to enjoy your new carbon air intake.