

## Oil to Water Cooler Fitting Tips.

Remove the engine cover completely.

Ideally drive the car up on ramps as this will lift the car quite high and enable an easier working space.

Don't forget to put blocks in front of the wheels to stop it from rolling.

Remove the rear undertray and the rear diffuser.

Loosen the jubilee clip the RH side lower water hose (enters the sill section) to the aluminium hose running along the chassis and drain the Coolant into a clean (10 litre) container (this can be re used later).

Remove the top (rear) engine hose completely (see pic)

Remove the oil filter

**NB\*** it is worthwhile replacing with a new filter at the same time as removal usually damages the old one.

Fit the new silicone hoses (90 degree at top and 130 degree at bottom) to the water to oil cooler unit loosely in place not forgetting the jubilee clips (see pic).



Fit the oil cooler loosely on the rear engine outlet pipe.

Fit the lower 135 degree hose to the aluminium pipe that runs along the chassis rail.

Fit the oil filter "sandwich plate" onto the oil filter housing (see pic below).

Connect the new braided hoses to the sandwich plate as shown in picture here



Connect the new braided hoses to the oil cooler unit as shown in top picture ,the short braided hose fits to the Right hand side of the cooler and the longer hose fits to the Left hand side.

Once satisfied that all are in place properly tighten **ALL** hose clamps and braided hose fixings.

### **VERY IMPORTANT**

**1/**. If you have a Janspeed manifold you may need a shorter oil filter, we have found the Renault 5 Turbo has a smaller filter that flows the same oil rate which is ideal in this circumstance.

**2/**. Make sure the hoses cannot touch the manifold and also make sure they cannot rub against anything (including any area of the chassis) otherwise the braided covering will wear away and the pipe will burst. Use Strong Nylon cable ties if necessary

One part that will alleviate engine movement that can cause chaffing is our upgraded lower engine mount and we strongly recommend you fit this item too.

**37.** I use rubber or foam padding between the oil hose and:

- The radiator return pipe
- The lower wishbone mount
- In the chassis 'channel' to stop it chafing on the bolt sticking out

NB\* the cooler will sit at an angle of around 10° off vertical, this is designed this way and keeps the cooler further away from the hot manifold.