MACE ENGINEERING COLD AIR INTAKE
FITTING INSTRUCTIONS TO SUIT FORD BA-BF 6 & V8

Removing the factory Air Box

Outlined below in red, are the locations where the factory air box is secured and are the only areas which need to be unfastened. The lid does not need to come off in order to remove the air box assembly.

Start by loosening the hose clamp on the hose which connects to the lid of the air box.

The hose simply slips off the lid as shown

Proceed be removing the two screws on the intake snorkel as shown below

The intake snorkel can be removed by twisting and rotating it such that the joint at the bottom of the box dislocates as shown in the images below.

At this stage only the three bolts holding the box itself are left to be removed by use of a socket wrench.

Note the bottom bolt behind the headlight as it may not be clearly visible (below right).

Once all 3 bolts are removed, the air box can simply be lifted out as shown below.

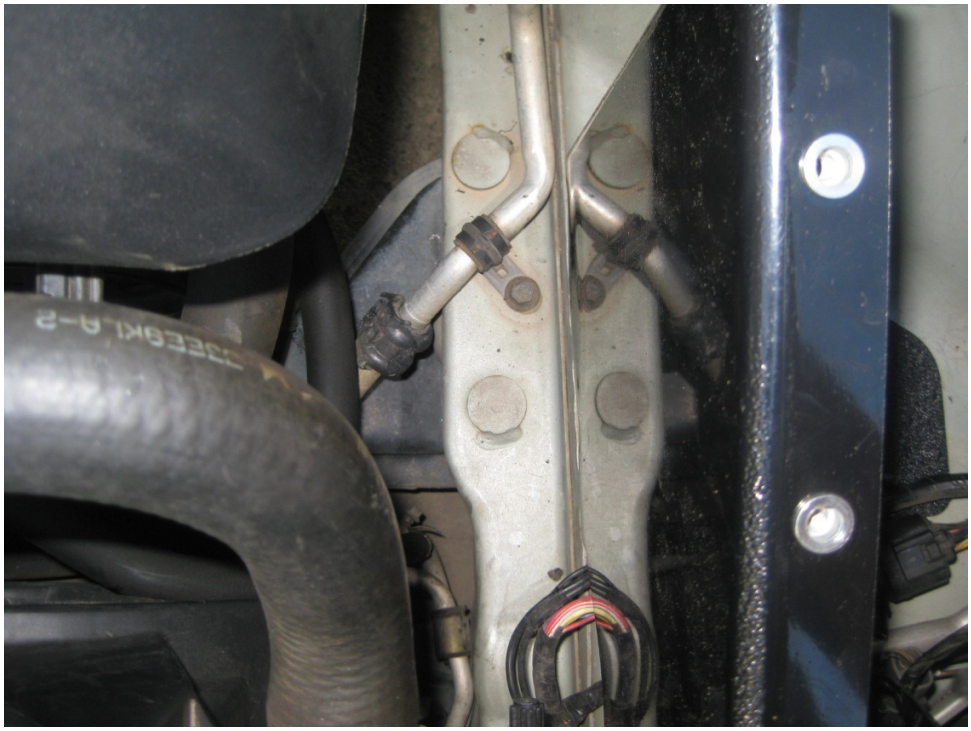
Also remove the washer bottle lid to allow for easy installation of the CAI. Once the CAI is fitted, the washer lid will need to be placed back.

Fitting the MACE CAI

Once the area is cleared, place the CAI enclosure into the engine bay such that it clears all obstacles.

The CAI enclosure naturally sits in a position such that the slot in its base easily fits around the groove in the vehicles bodywork.

The side of the enclosure facing the engine should sit flush with the chassis rail as shown below.



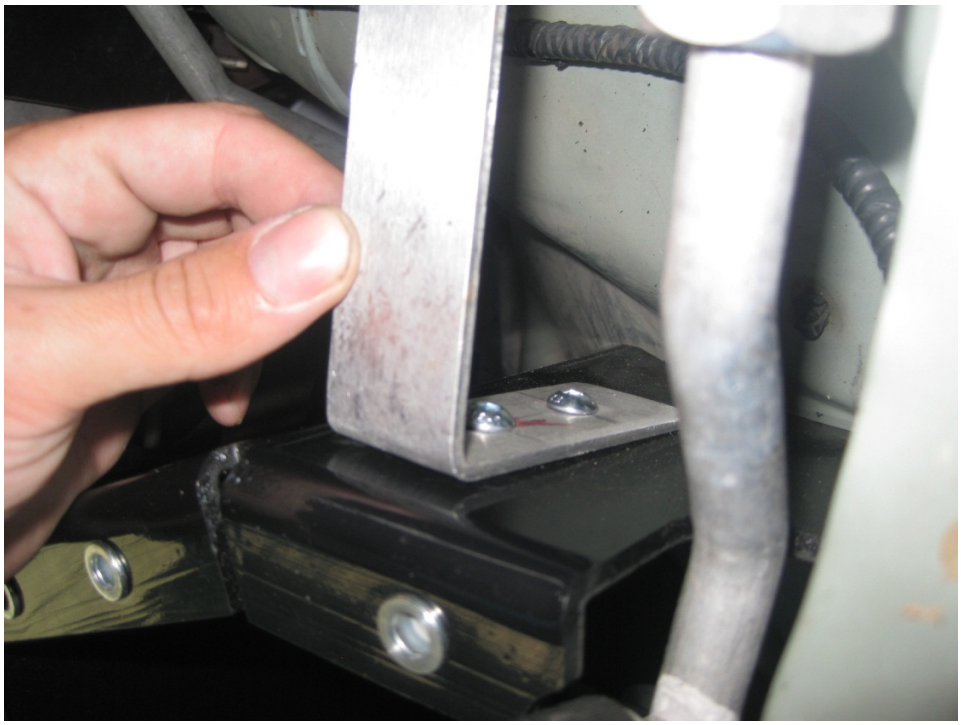
Use the flat straight bracket (provided) and one of the vehicle's original bolts in order to secure the base of the enclosure.

Using a socket wrench secure the bolt and bracket as shown below

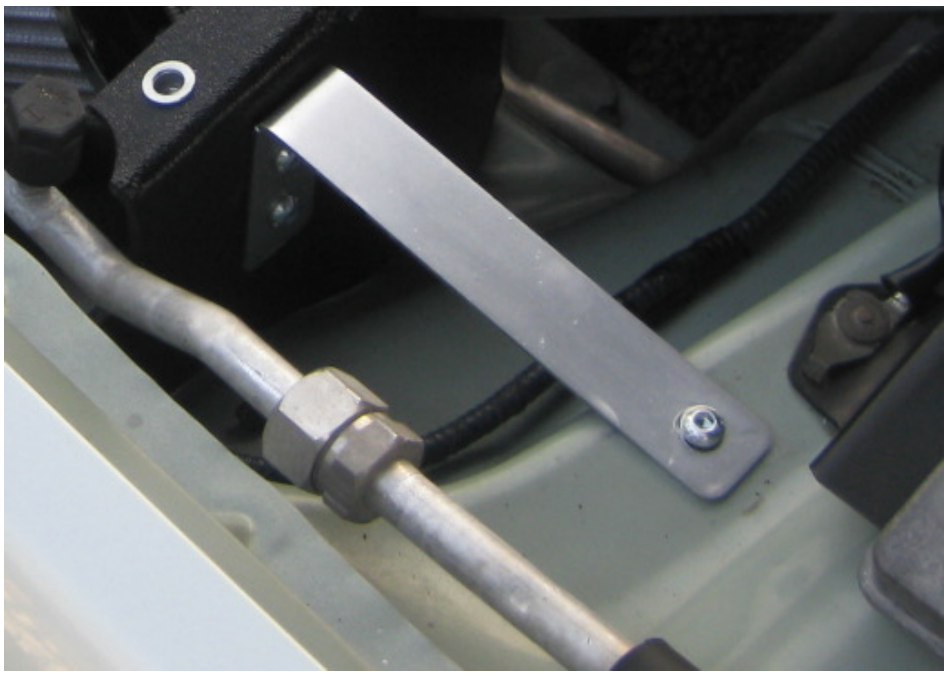
The enclosure should also be mounted at the top using the existing outer hole in the bodywork and the L-shaped bracket provided.

2 small screws and nuts are provided to mount the bracket onto the face on the enclosure.

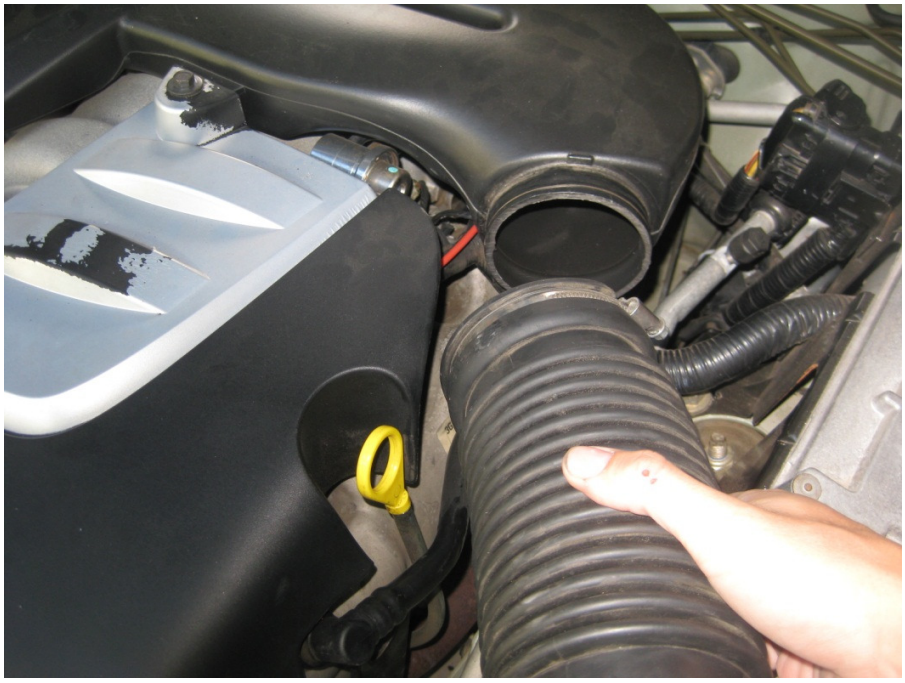
Place the screws into their designated holes as shown below.



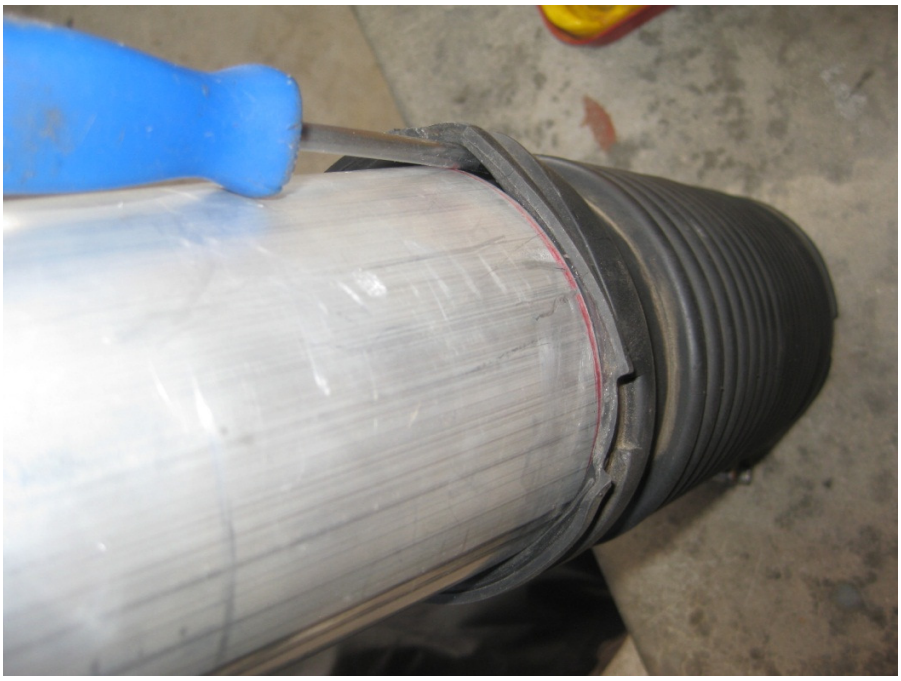
Use the nuts to mount the bracket onto the enclosure and secure using a spanner or socket wrench. Secure the top of the bracket using one of the cap screws provided.



At this stage the convolute hose should be removed by removing the top hose clamp to make fitting of the intake tube easier.



In order to maximize air flow, the largest possible size pipe has been supplied but may be a tight fit. The use of a flat head screwdriver while pressing it up against a surface will make insertion easier. Lining the outer edge of the tube with a lubricant such as oil or Vaseline will also help insert the tube. If insertion is difficult, leaving the end of the tube in a bucket of hot water will let the rubber expand enough to insert the tube.



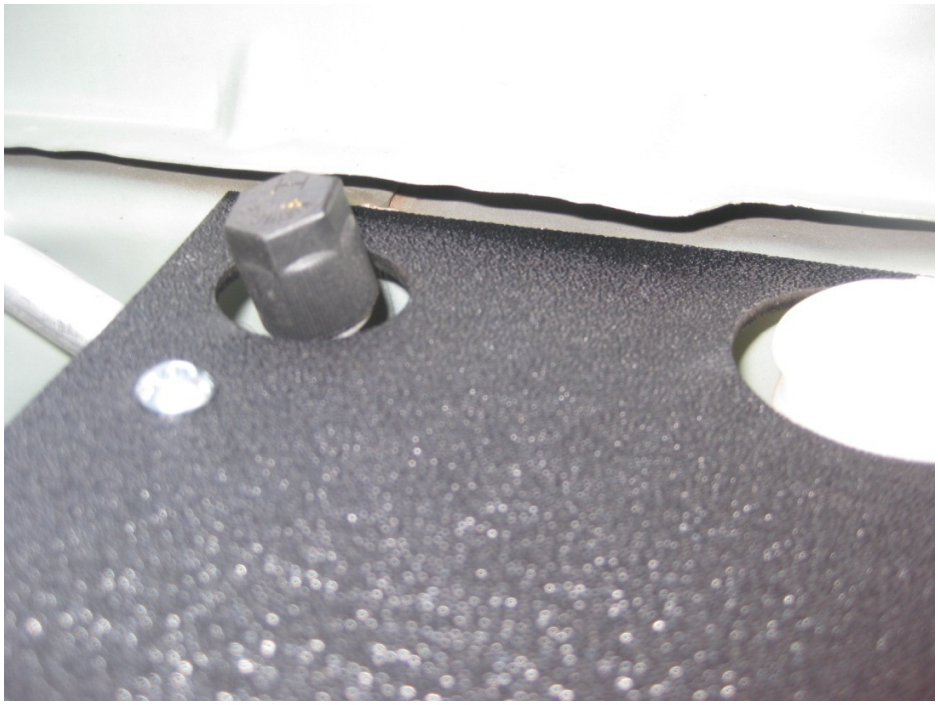
Secure the tube using the original hose clamp

Fit the intake through the CAI enclosure before attaching it to the plastic intake manifold as shown below.

Secure with the original hose clamp

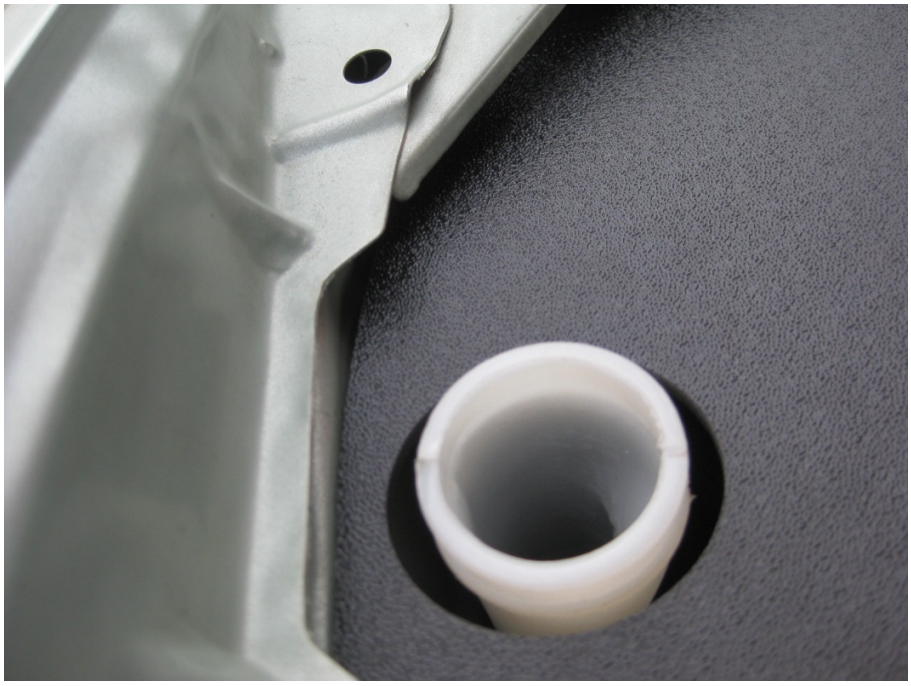
Tighten the hose clamp supplied with the filter..

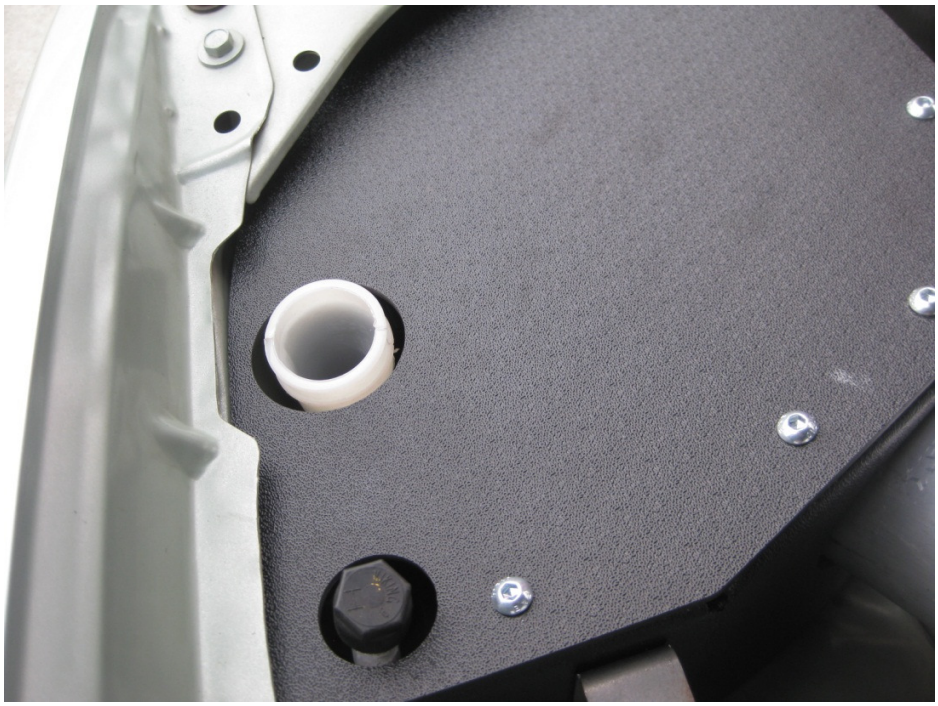
The next stage of installation requires the lid to be fitted onto the enclosure



Place the top right-hand corner of the lid under the quarter-guard flange first before placing it over air-con receiver cap and washer bottle respectively.

Insert the screws into the holes and first finger-tighten all screws while adjusting the enclosure accordingly such that all holes align.





Refit the washer bottle lid and align the two holes while tightening all screws and brackets using an Allen key. Hole locations may require some moving until alignment is adjusted. This can be done by loosening all brackets and screws and holding the enclosure in place where holes align and retightening the screws. The image below shows the ideal orientation of the washer bottle lid. Notice that the plastic hinge is tucked under the lid.

This completes the installation

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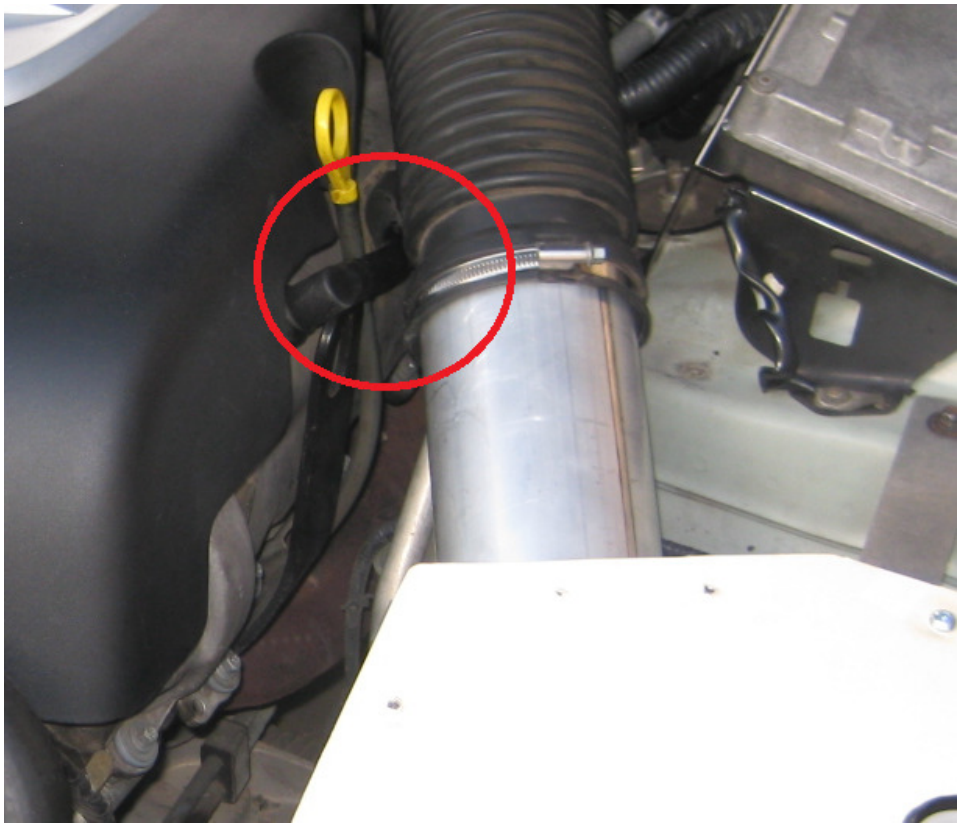
Increasing Clearance (V8 model)

– (For 6 cylinder models please scroll down to 6 cylinder section)

The following step is optional but recommended.

To improve clearance in the area shown below, it is recommended to adjust the angle of the PCV hose where it makes contact with the intake hose. This may cause rubbing which in the long may produce unwanted wear and tear.

The intake tube and hose must be removed in order to complete this process. Removal of the engine cover can also be considered but is not vital.



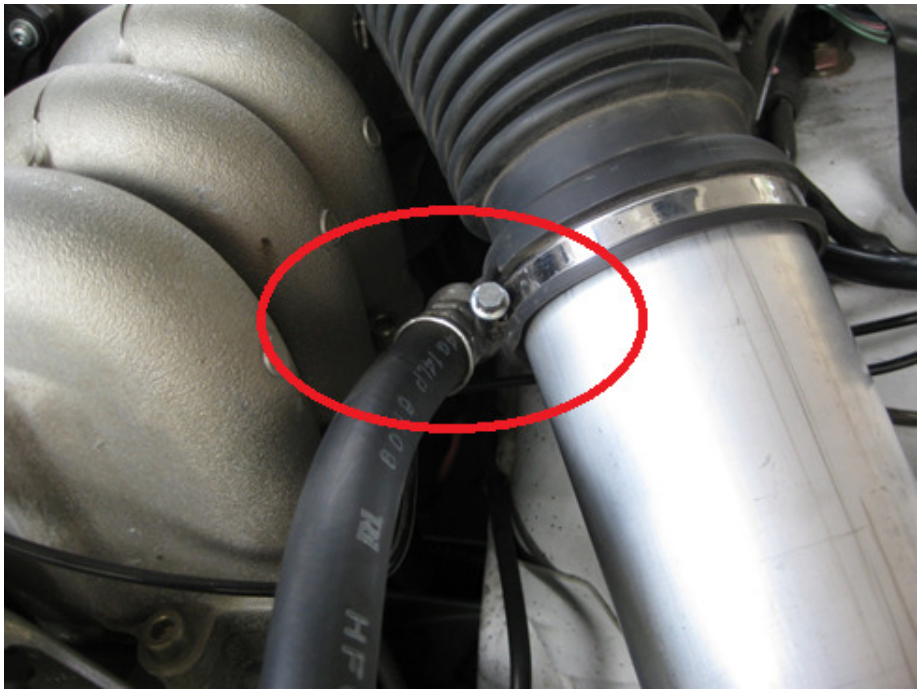
Remove the PCV hose by pushing the clip and pulling out the fitting as shown below

Carefully apply heat to the bend using a heat gun, ensuring the rubber/plastic does not burn or melt.

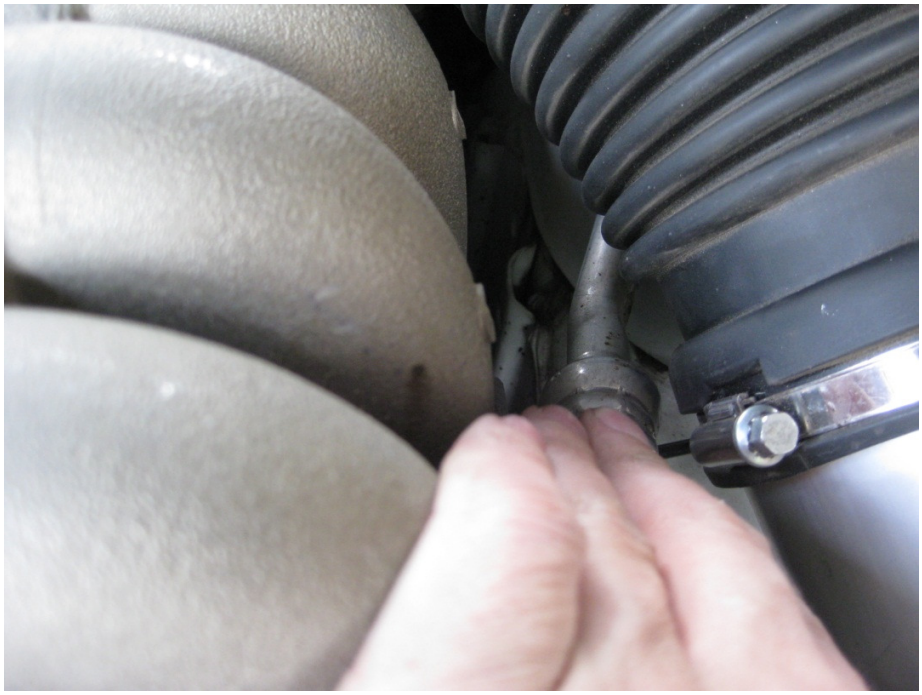
Counter the bend with your hands and refit the hose onto the nozzle making sure there is still enough clearance between the PCV hose and the oil dipstick. Refit the intake hose and check clearance. Adjust PCV hose further if required.

Increasing Clearance (I6 model)

The following step is optional but recommended. To improve clearance in the area shown below, it is recommended to adjust the angle of the A/C line where it makes contact with the intake hose. This may cause rubbing which in the long may produce unwanted wear and tear.



Carefully push down onto the A/C line in order to alter its angle and increase clearance.



Apply enough force to create 10-15mm of clearance as shown below.