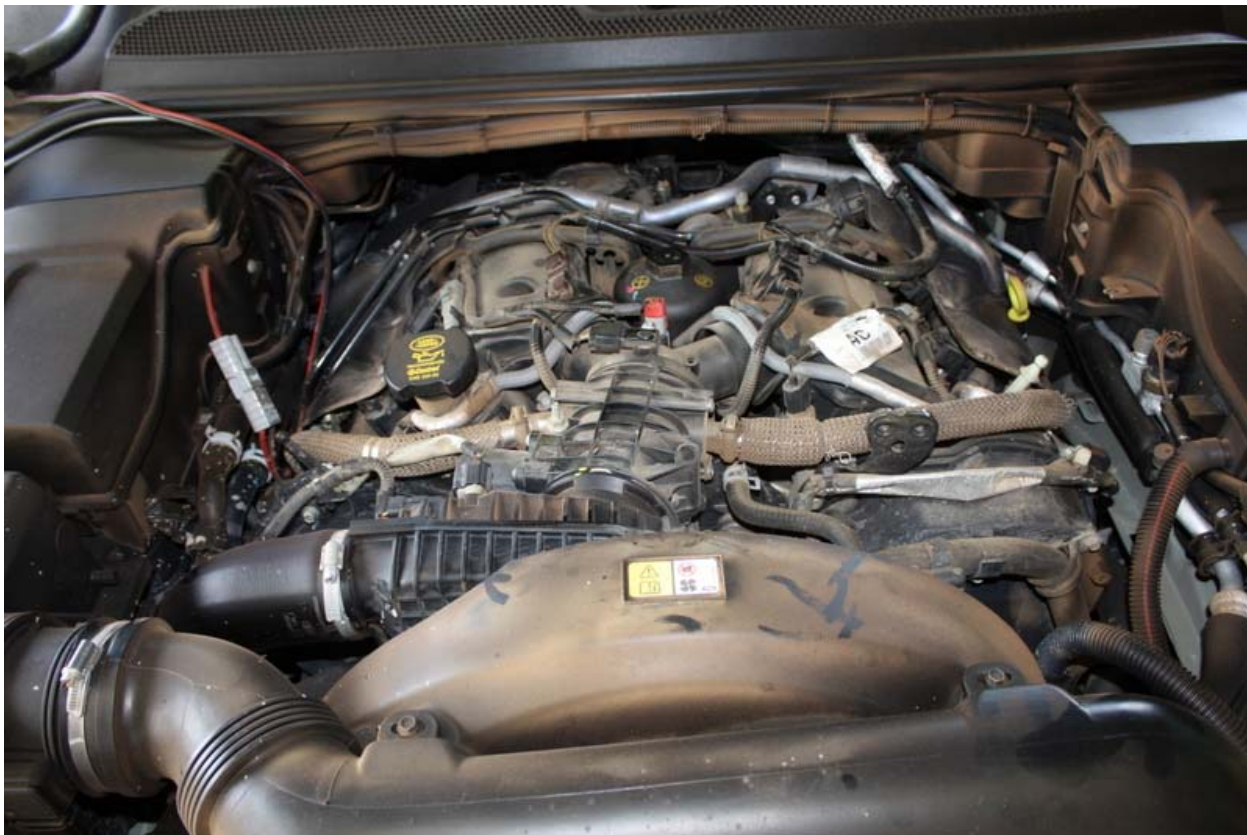


Disclaimer : Please note that what follows is a guideline as best I can remember it , and there may be other ways of doing the procedure , but this is what worked for us.

All credit to go to Koos (Discoeast) for the whole process .



Start by removing the engine cover. Easy to do . Remove the oil filler cap and give each corner a gentle tug .



Cover off



Remove the two sensor connectors on the left side of engine



Remove clip holding intake box on inlet manifold (insert screwdriver and twist)



Loosen jubilee clip on intercooler pipe



Remove pipe (quite tight) .Jubilee clip will not slide back completely as there is a retaining clip underneath the pipe lip



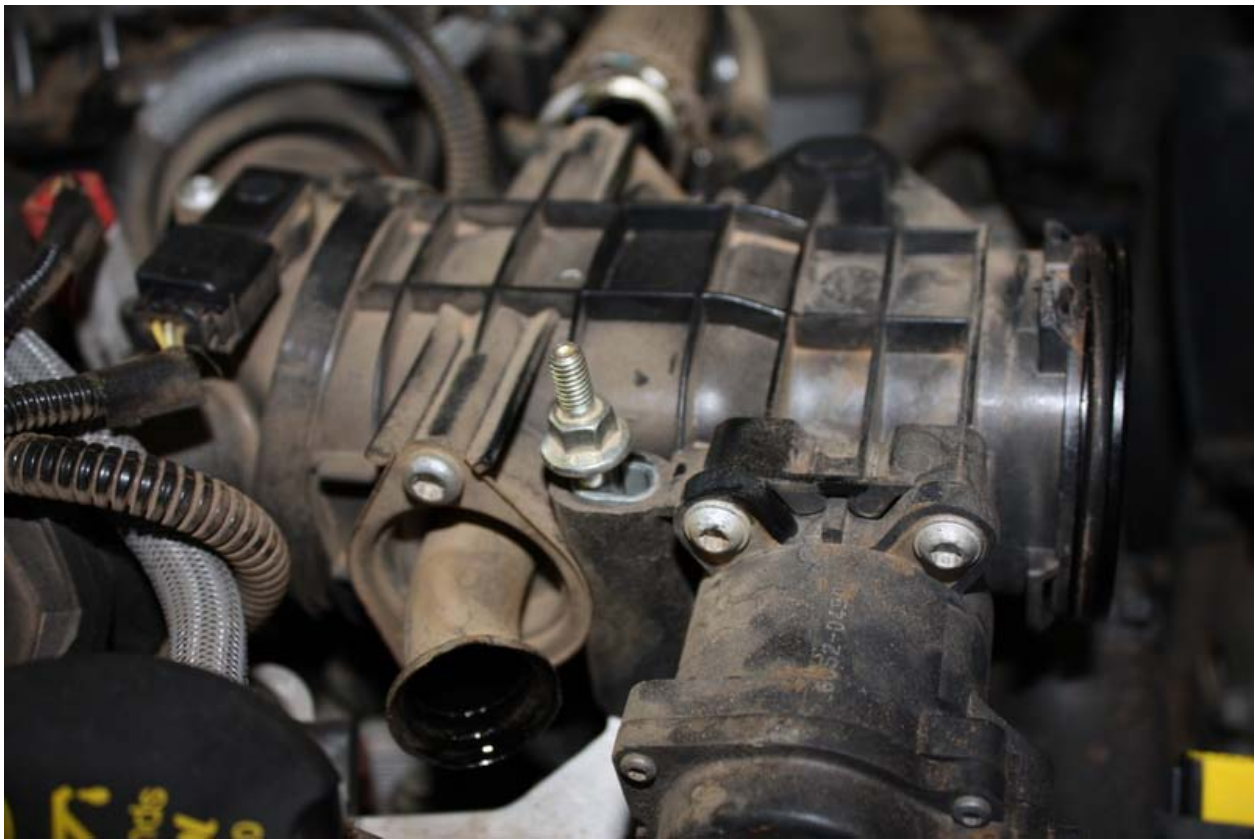
Box can now be removed



Remove clips holding EGR pipes on each side of intake manifold (RHS) and remove pipes (insert big flat screwdriver )



LHS repeat the process



Remove nut holding butterfly body in place



Gently lift butterfly body up and remove bolts holding actuator in place . Actuator can now be detached



Butterfly can clearly be seen in this picture

Remove butterfly off shaft by inserting 2 screwdrivers one each side behind butterfly

Now remove shaft and take butterfly out (forwards)



Connect actuator back onto shaft taking care to align actuator pin to 6 o'clock position





Replace actuator



Remember to take frequent rehydration breaks

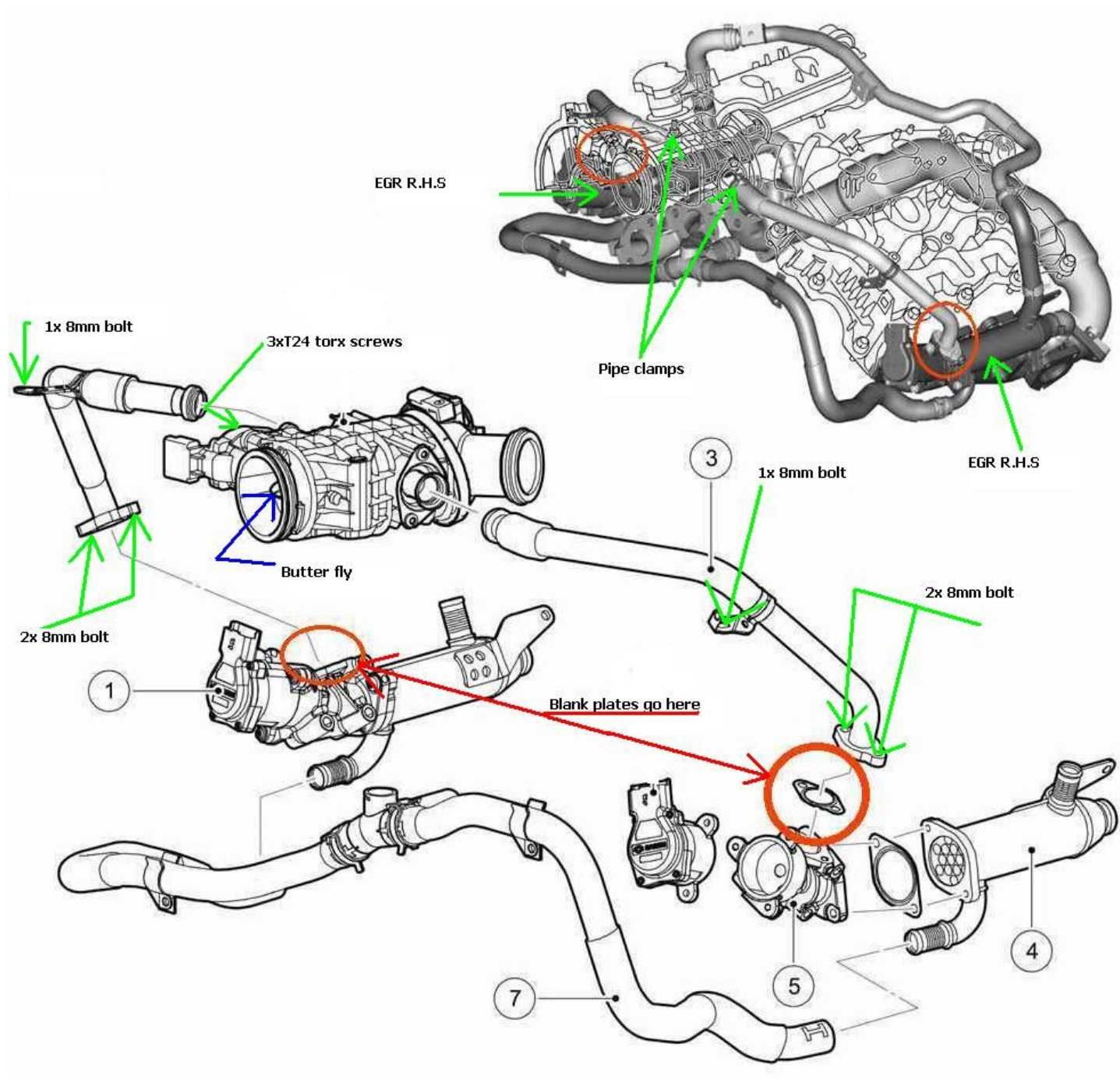


Clean up EGR pipe face



Apply gasket sealer on pipe , then fit blanking plate and apply more sealer and then fit gasket

Now replace pipes and do the whole assembly process in reverse of disassembly



Can't remember who to credit this diagram to