



Holden VE SIDI series II V6 OTR CAI Installation Instructions

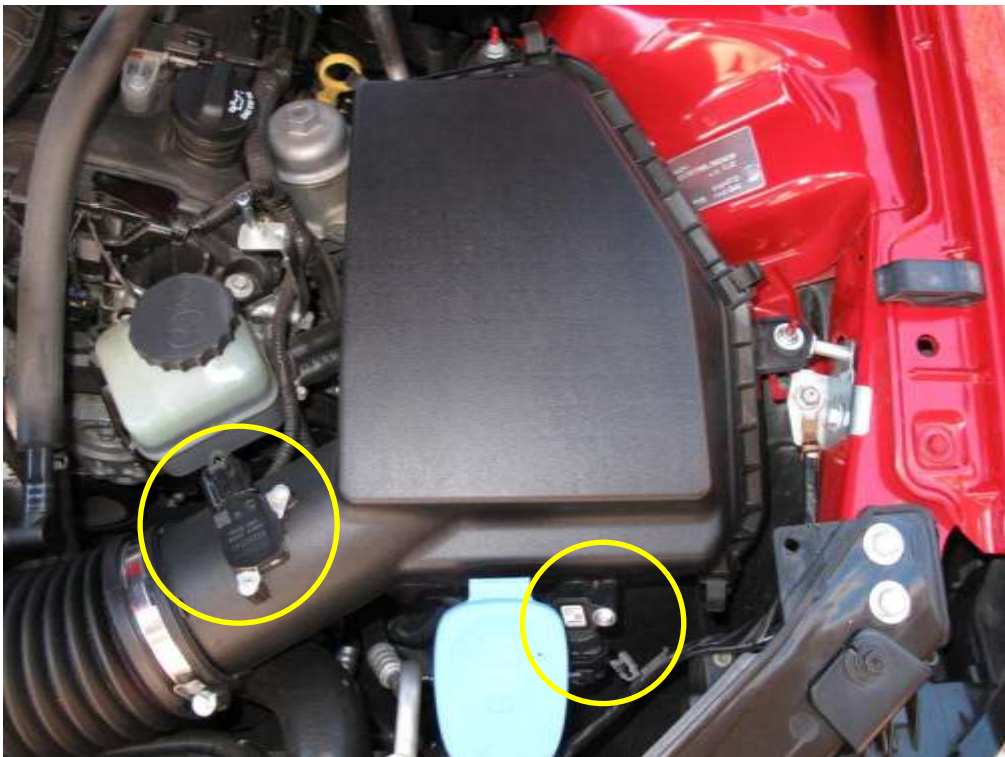


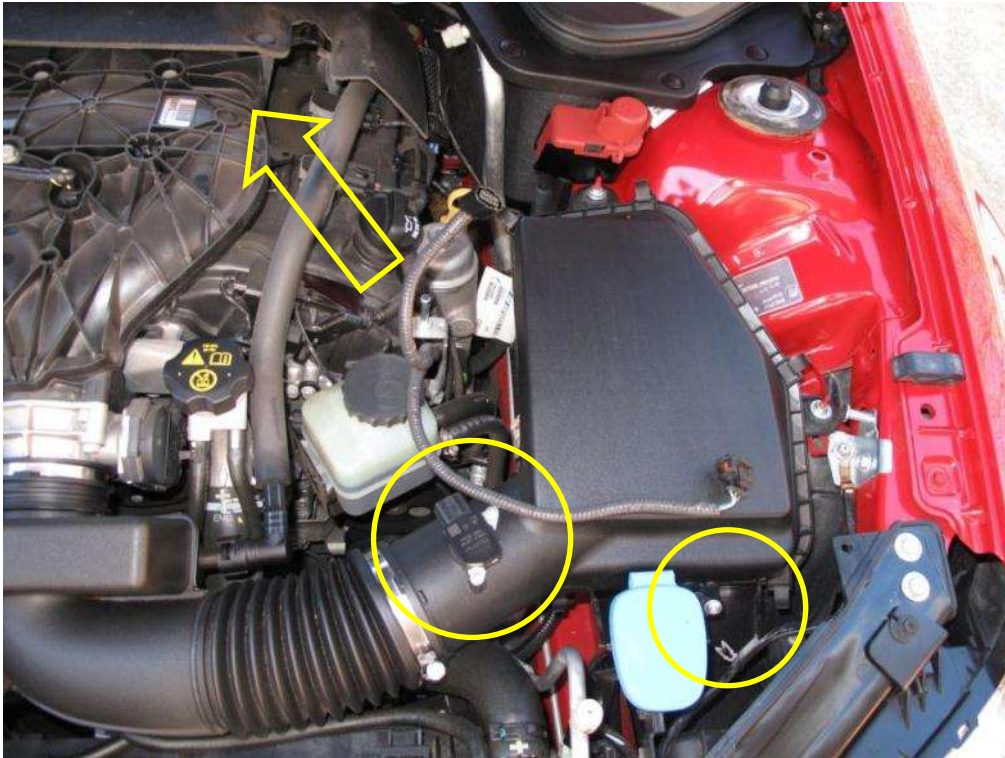


- Shown above is a standard V6 VE LFW SIDI engine bay.
- Your MAF Loom may need to be extended by an auto electrician. Please check the length of your MAF loom before attempting to install the OTR to save time.
- To allow for better access, remove the engine cover by grabbing the cover in the front and up and towards yourself.

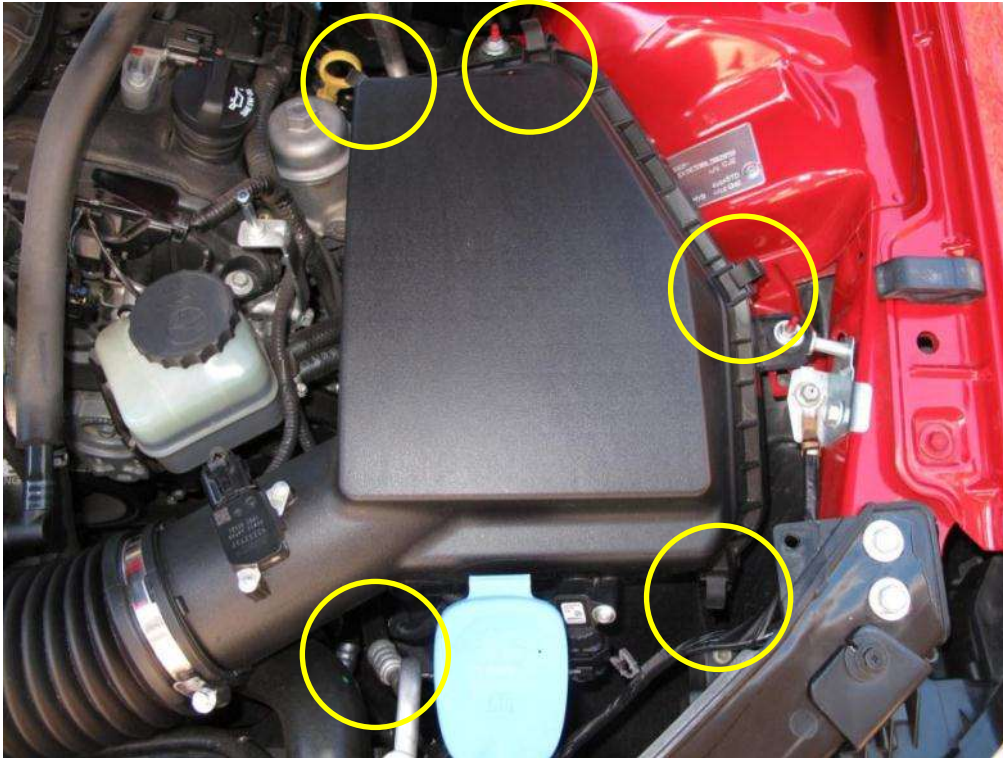


- To remove the factory air intake, begin by disconnecting the MAF and vacuum sensors (Circled below) by pushing down on the locking tab before gently pulling the loom away from the sensor.



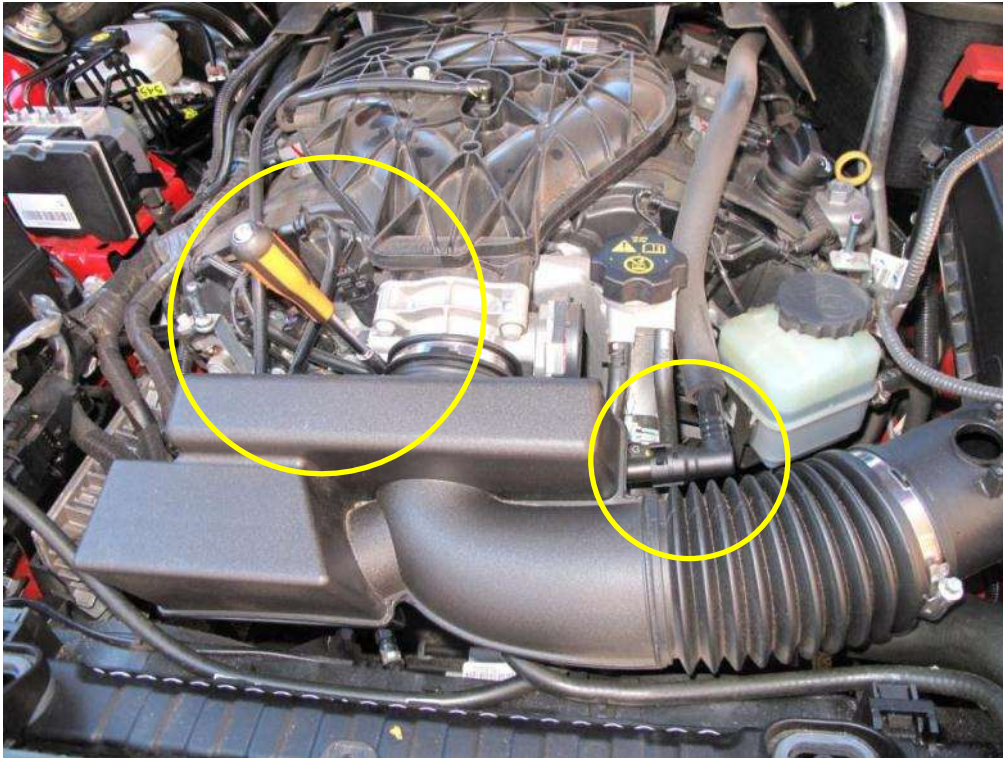


- Move the MAF and vacuum loom away from the factory air intake towards the firewall and over the engine in the direction of the arrow.
- Remove the MAF sensor (large circle) by unscrewing the two mounting screws, reserving the mounting hardware for refitting the MAF to the OTR.
- Remove the vacuum sensor (small circle), by unscrewing the mounting screw, reserving the mounting hardware for refitting vacuum sensor. Yet to be worked out.
- Place both sensors and mounting hardware in a safe and clean place.



- Unclip the top of the factory air box top cover, circled above and below. This can be achieved by hand and requires no tools.





- Remove the breather pipe (Small circle above) by releasing the locking tab and pull towards the right, away from the factory air intake.
- Loosen the factory air resonator box from the throttle body by unscrewing the screw clamp (Large circle above).
- Once loose, pull towards the radiator and lift out the top of the factory resonator and air box top as one piece.



- Remove the air filter to get access to mounting all the mounting hardware (Circled below).
- Remove the factory air intake grounding nuts and bolt.





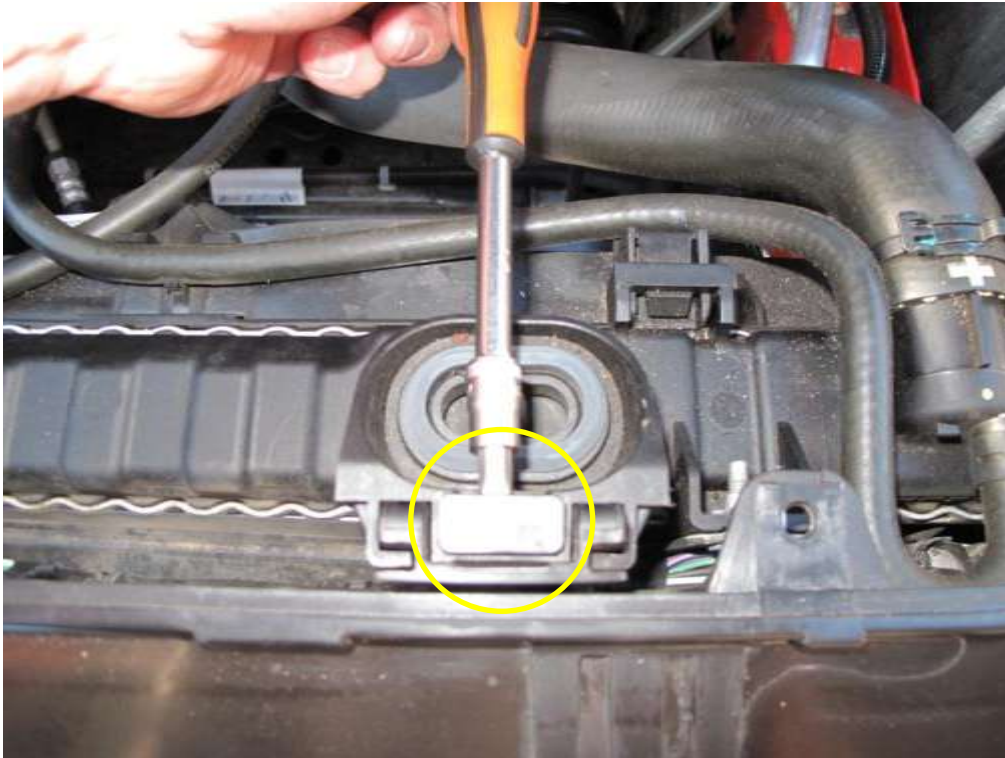
- Remove positive battery terminal mounting bolt to get better clearance to remove the base of the factory air intake. Because of limited access and clearance to the mounting bolt, it is best to use a gear spanner, if available.
- Remove the metal insert and the rubber grommet from both of the mounting studs, circled above.





- Lift the factory air box bottom and the attached snorkel out.
- Refit the positive battery terminal using the mounting bolt and securely fasten using a gear spanner, if available.

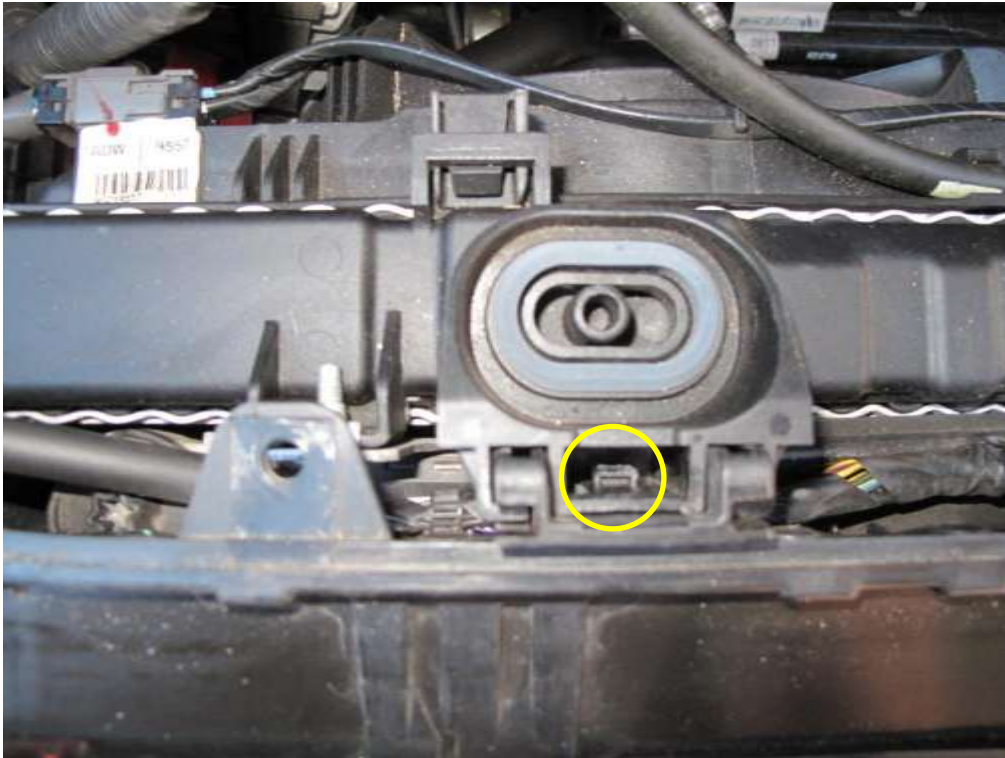




- Insert a flat bladed screw driver in to the slot and lift the radiator support locking wedge on the left and right side of the radiator and remove.

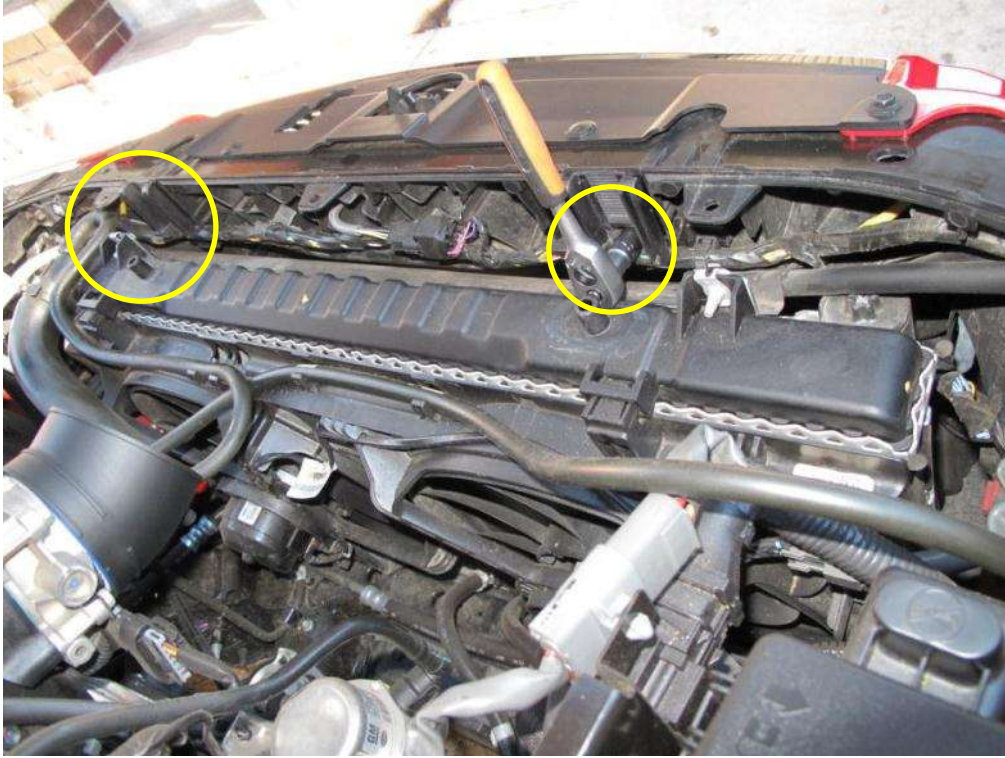


- Remove the radiator support locking wedge from both sides.

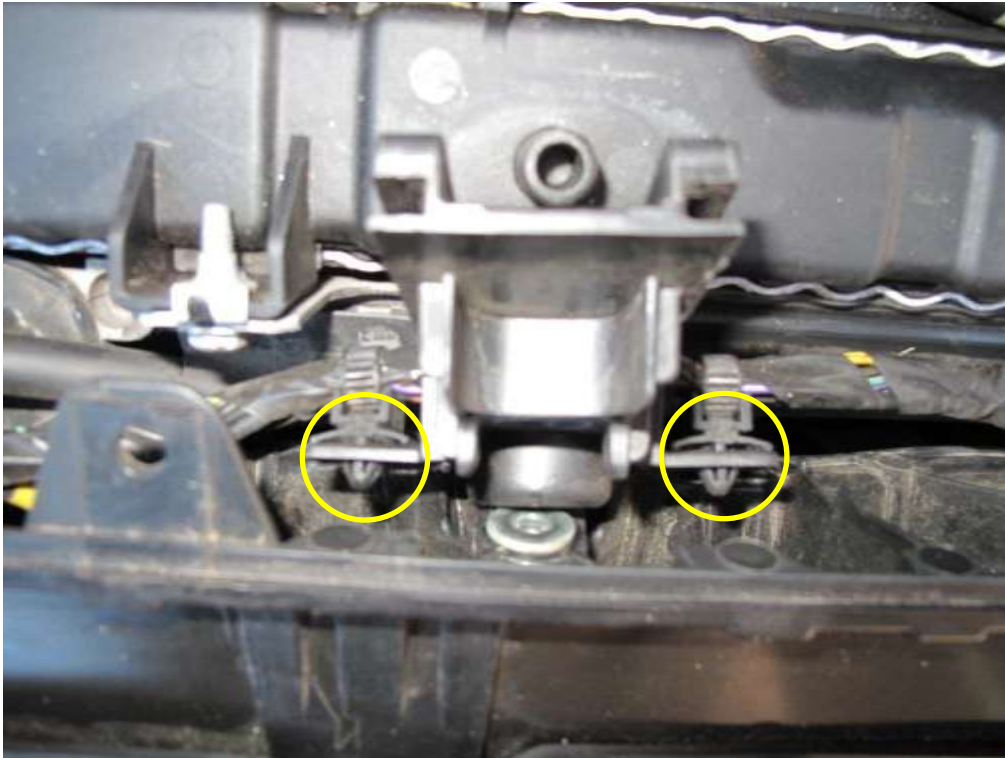


- Using a flat bladed screw with one hand, release the locking tab and lift the radiator support bracket up and out with the other hand, in one action.





- Remove the 10mm screws holding the lower part of the radiator support bracket from both left and right side and reserve for mounting the leaning bracket supplied in the VCM kit.



- Using a pair of pliers, release the lower support from the wiring loom from both the lower radiator support bracket.



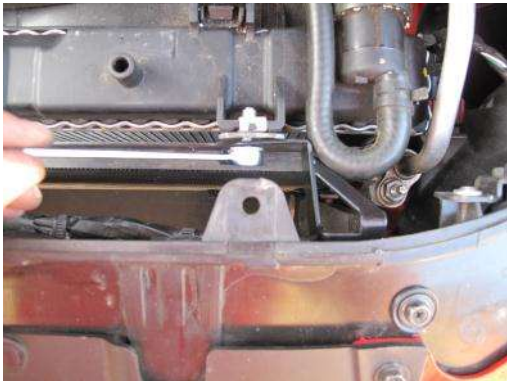


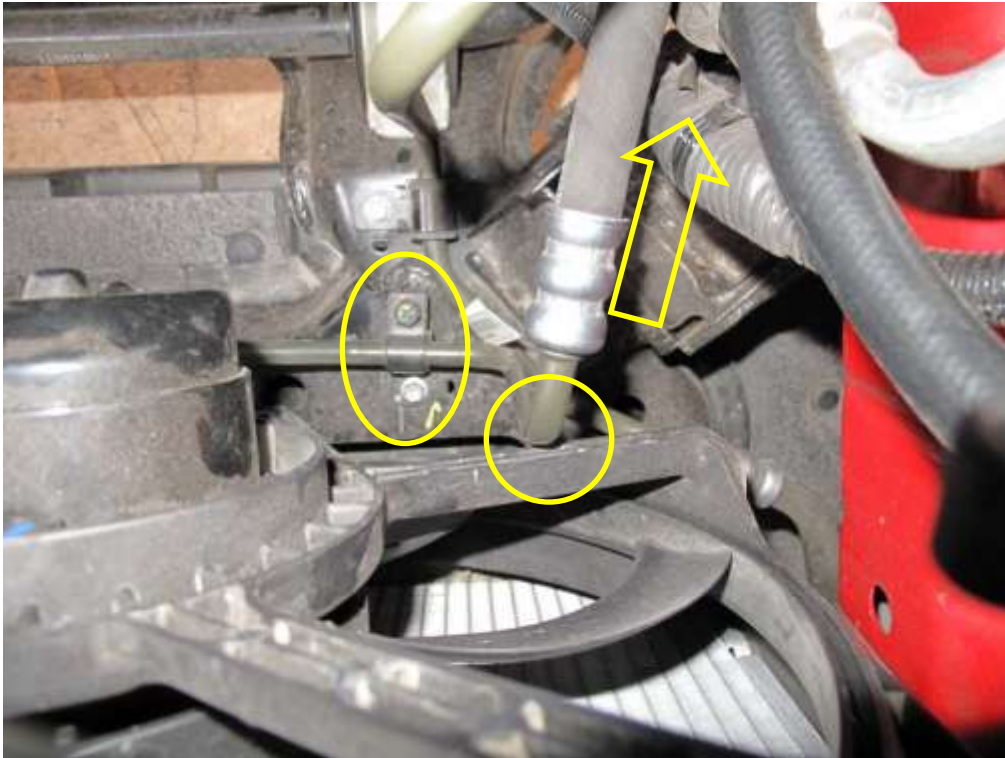
- Remove the 10mm screw from the AC condensing from both the left and right side. Reserve for mounting the mounting the leaning bracket supplied in the VCM kit.
- Lift and remover the weather shield.





- Place the washers supplied in the VCM kit into the factory holes.
- Insert the right support bracket and fasten using the 10mm bolt from the low support bracket. These brackets lean the radiator back to enable the OTR installation.
- Refit the 10mm bolt from the AC condensing removed earlier. Repeat on the left side.





- Loosen the screw and bolt to reposition the air conditioner hose to ensure there is clearance between the radiator and air conditioner hose.
- Tighten the bolt and screw when complete.



- Using a 3 mm drill bit, drill the two screw holes for the MAF sensor.
- Refit the MAF sensor to the MAF housing.





- Fit the coupling to the MAF housing as show and tighten only the coupling worm drive hose clamp, leaving the other end loose to fit on to the throttle body.





- Carefully attach the MAF assembly to the throttle body making the sure the silicon gasket is properly seated and tighten the worm drive hose clamp securely.





- Assemble the rocker cover breather hose connector using the 3/8" barb fitting (shown on right in above image).
- Insert the black plastic fitting into the OTR.





- Insert the drain valve into the bottom central hole of the OTR.





- Fit the rocker cover breather hose onto the OTR. This is a tight fit and there is always time for a little lubrication to ease insertion of the hose.
- Fit the worm drive hose clamp and tighten.





- Gently lower the OTR into position, this is a tight fit.





- Align the couple boot on to the OTR and fit the worm drive hose clamp and tighten. Fit the three push clips to secure the front of the OTR.
- Fit the rocker cover breather hose to the rocker cover.





- Connect the MAF cable on the left side of the throttle body.
- Remove the weather shield on the front of the bonnet.



Please double check that all fittings are securely fastened.

Congratulations, you have now completed the installation of the OTR.