



AUDI RS4 B7 OIL COOLER KIT INSTALLATION

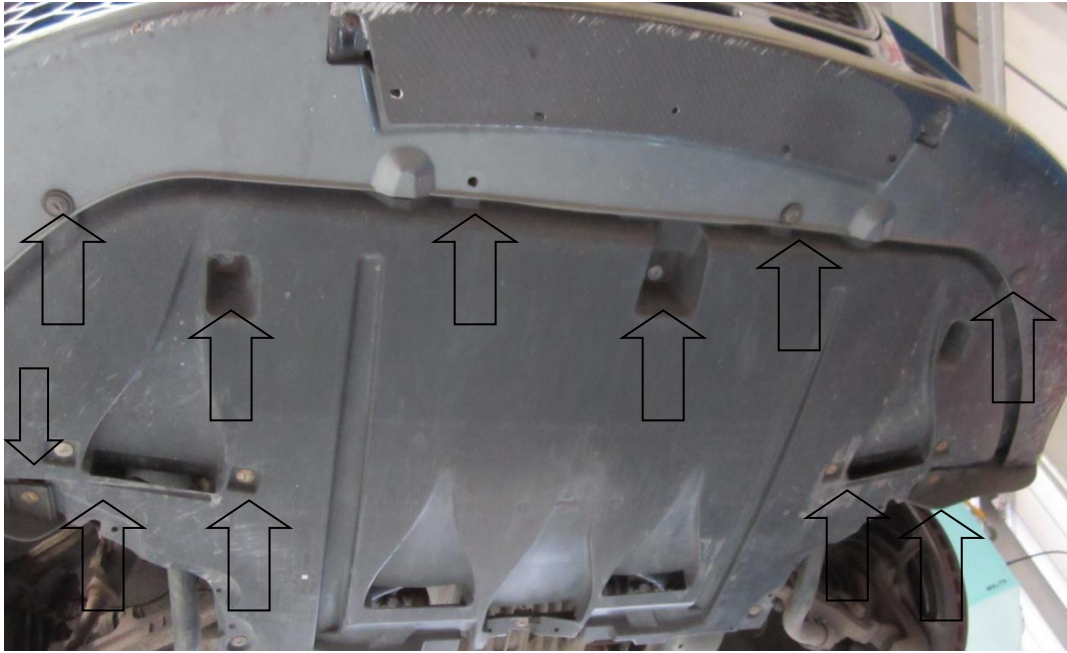


Tools needed:

- 10mm socket
- Allen key selection
- Socket extensions
- T25 & T30 screwdriver
- Flat bladed screwdriver
- 2 litres of oil, whichever grade you are using in the engine

Please read through these instructions fully first to familiarise yourself with the installation

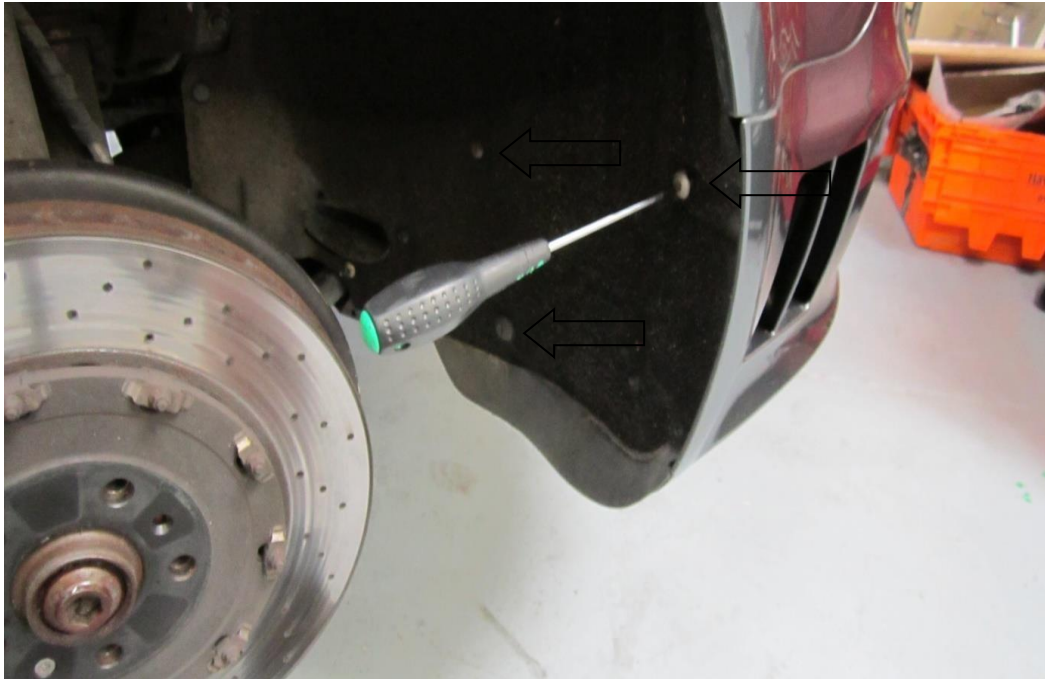
1. Find a flat area to park your vehicle in order to jack up the front end of the Audi, make sure you use axle stands to support both sides of the vehicle, we recommend that a four post ramp would be the easiest way to install your new oil cooler .
2. Remove both the front wheels using a 19mm socket. Now remove the under tray using a flat bladed screwdriver by removing the dzus fasteners arrowed.



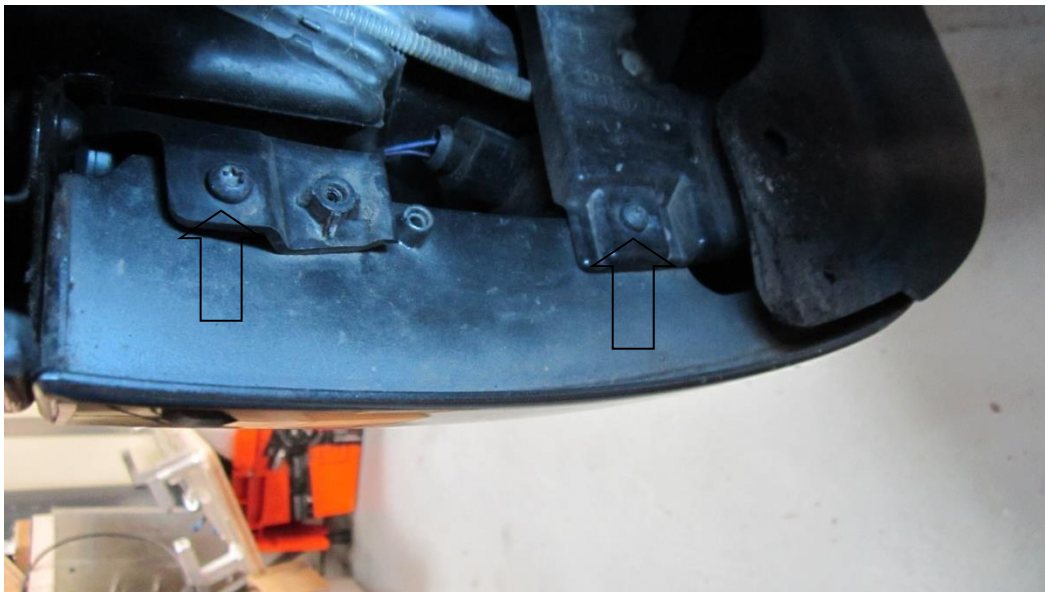
3. Using a T30 torx driver, undo the fasteners pictured. They are towards the rear of the under tray in the corners.



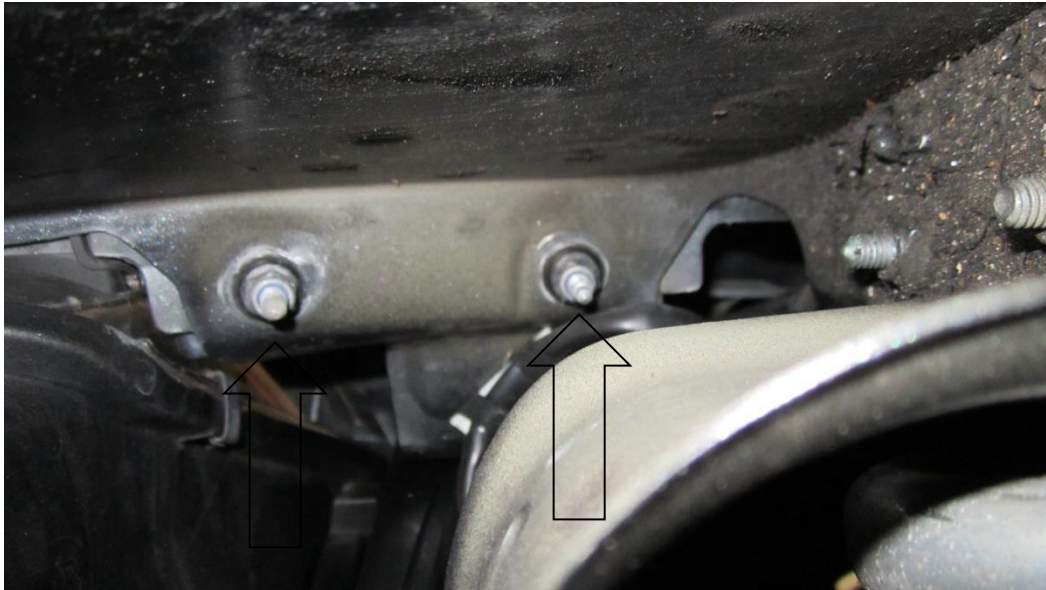
4. Inside the wheel arch undo the T25 fasteners pictured.



5. Pull back the arch liner, and behind you will find two more T25 torx fasteners. Remove these also.



6. Located behind this panel where the bumper meets the arch are two 10mm fasteners, remove the 10mm nuts that hold the sides in place.



7. Moving to the front on the bumper remove these fasteners arrowed with a T30 torx drive.



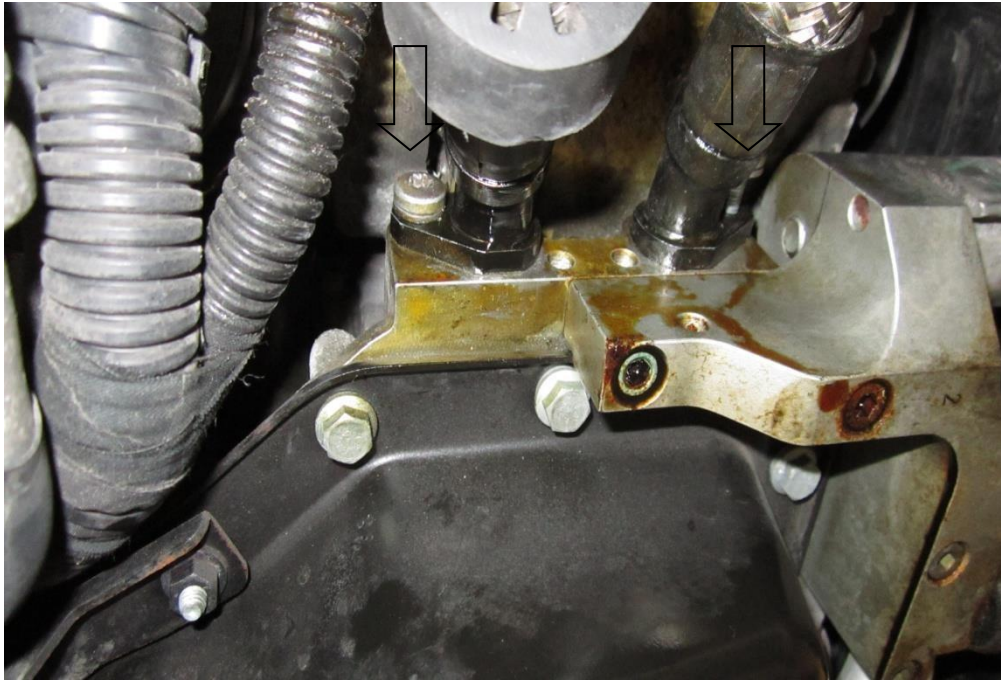
8. There are also some bumper height adjusters that should be loosened. This is not always necessary, but sometimes can help when you come to refit the bumper. These are circled in red.
9. When removing the front it is easier to have a helping hand pull the bumper on each side and remove.
10. While one of you holds the bumper undo the wiring connectors to the fog lights.



11. You also need to disconnect the washer jets, by pulling up the retainer and pulling out the hose. Have a jug ready to collect any screen wash you wish to keep.



12. You are now ready to remove the OEM oil cooler. Start by removing the oil lines from the engine block. Use a T30 torx drive, have a drip tray or similar to catch the excess oil which WILL drip out of the block and old oil lines. Please make sure you dispose of the oil responsibly!



13. Next to remove the oil cooler undo the 10mm nuts in these locations.



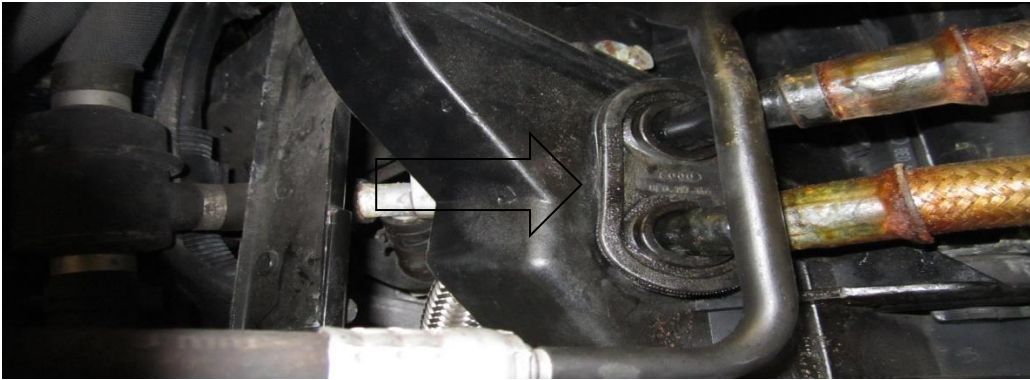
14. There are two final 10mm nuts tucked away behind the plastic cowl to remove. The other 10mm can be found in the same place but on the opposite side.



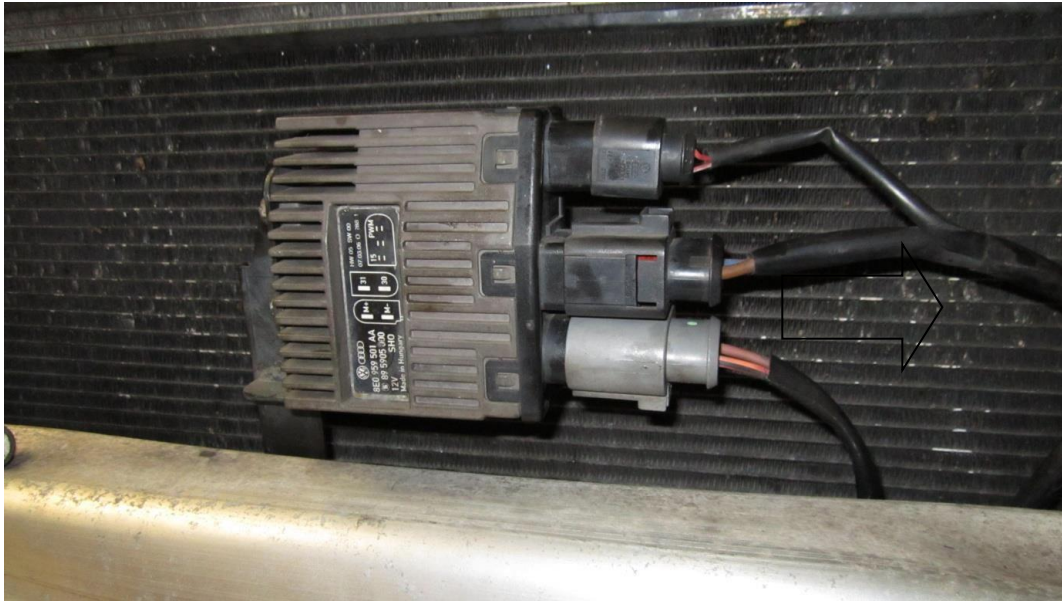
15. Now you will be able to slide out the cooler from between the radiator and the power steering cooler.



16. Remove this rubber grommet at the same time.



17. The fan controller can also be removed now. Undo the three wiring harnesses then remove the 10mm nuts holding on the control unit.



18. Remove the bracket that held the control unit in place, use a 10mm spanner on the hex heads located on the rear of the crash bar.



19. Now the fan control unit has been removed, place it onto the new Forge Motorsport bracket, using a 10mm spanner to tighten the 10mm nuts.



20. Assemble the new oil cooler. Locate the M22 to dash 12 adaptor and fit the dowty seals provided into the groove on the M22 side (the side that screws into the oil cooler).



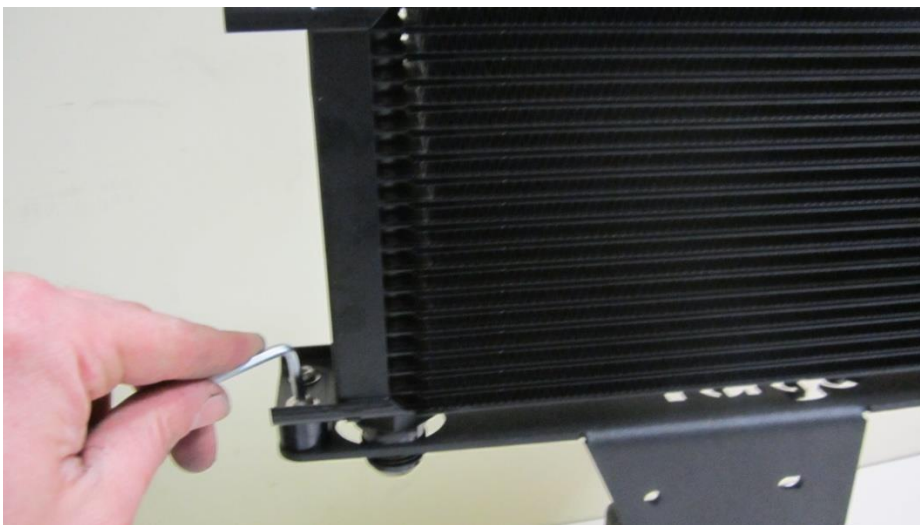
21. Now attach the M22 to dash 12 adaptor to the oil cooler, and using an adjustable spanner (or -12 spanner) tighten them down.



22. Find the oil cooler spacers and attach them to the oil cooler bracket using 4 M6 x 10 button heads and M6 washers provided, bolt up from underneath.



23. Now attach the new oil cooler again using 4 M6 x 10 button heads and washers.



24. Now attach the new oil lines to the cooler. The STRAIGHT fittings go on to the oil cooler, and the shorter oil line should be attached on the left hand side when viewed from the front.



25. Tighten both of the oil lines using an adjustable spanner, or -12 spanner.
26. Now the oil cooler unit is assembled locate the new Forge Motorsport sandwich plate and attach the o rings provided.



27. You can now install the sandwich plate to the engine. Put into position and use the two bolts you removed in section 12 to fix in place.



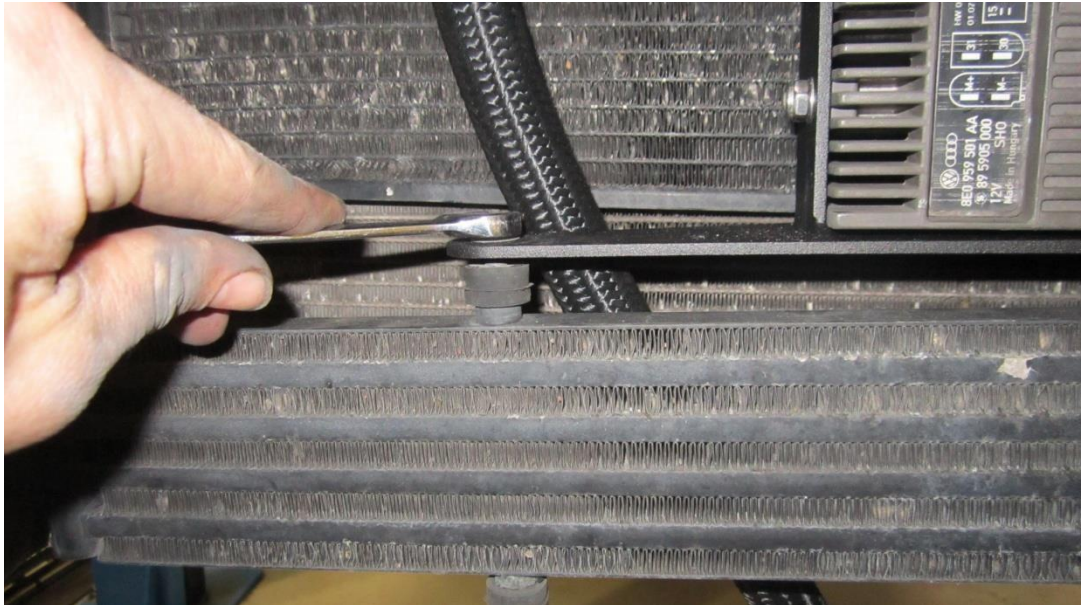
28. Slide the oil cooler assembly under and behind the crash bar into position.



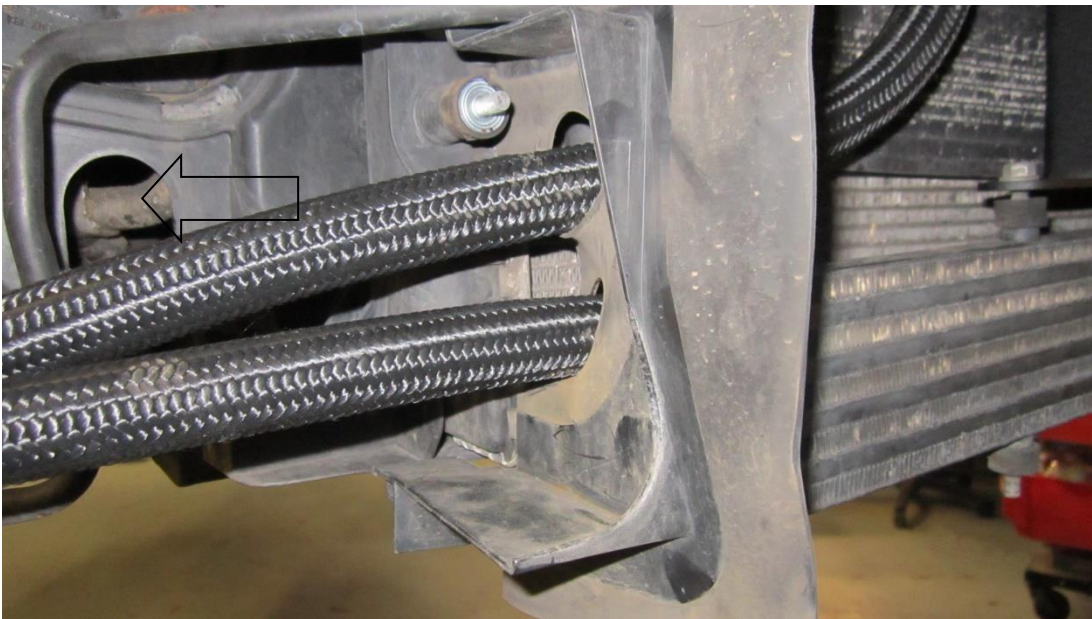
29. Using the two M6 hex heads removed in section 17 that held the fan controller bracket in position, attach the new assembly and tighten using a 10mm spanner.



30. Now fix the upper two cotton reels on the power steering cooler to the lower part of the oil cooler bracket using the existing m6 nuts that were removed in section 13



31. Feed the oil lines towards the left hand side of the vehicle when viewed from the front and through the slam panel towards the sandwich plate. Push the oil lines through where arrowed.



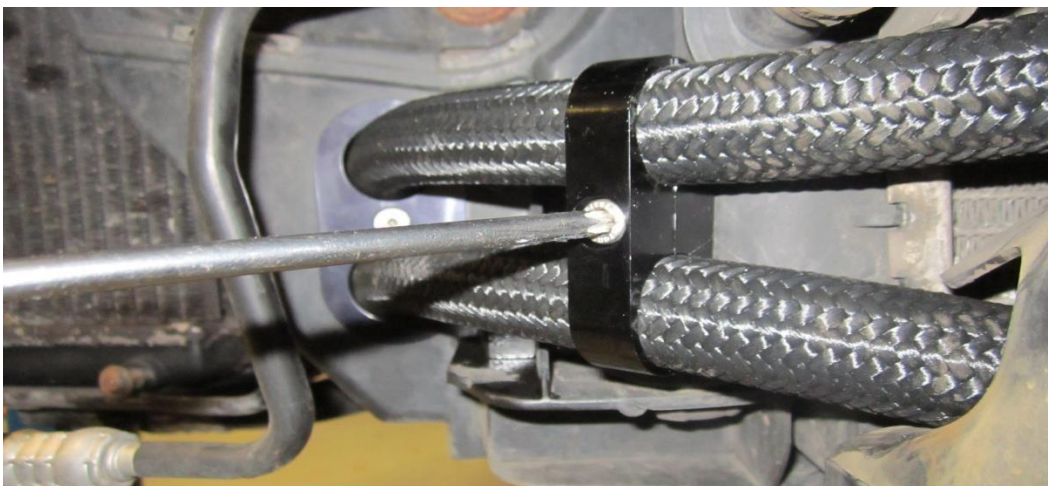
32. Connect the oil lines to the sandwich plate and tighten.



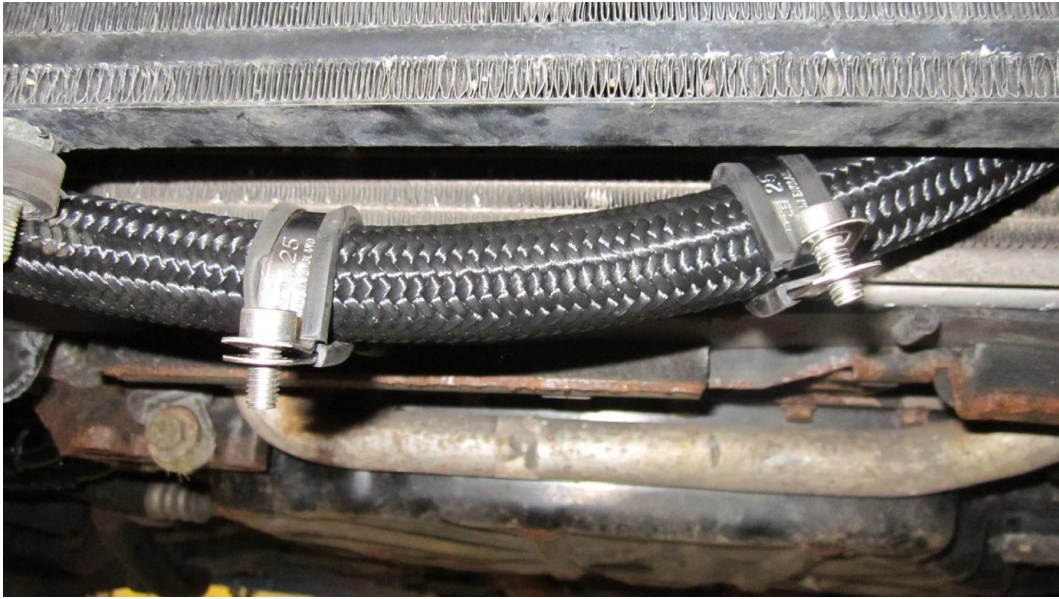
33. Place the S shape sandwich clamp into position hold the back plate in position and tighten the m5 countersunk provided with a 3mm Allen key.



34. Place the oil hose clamp in position and tighten.



35. Using the P clips provided place them into position on the longer of the two oil lines, use the two M6 x 16 cap screws with M6 nuts and washers.



36. Remove the cotton reels that still remain on the OEM oil cooler.



37. Place the lower Forge mounting bracket into position. Use the cotton reels just removed to attach at the back of the mounting plate. Please note the orientation of the plate as this is handed i.e. its offset to one side.



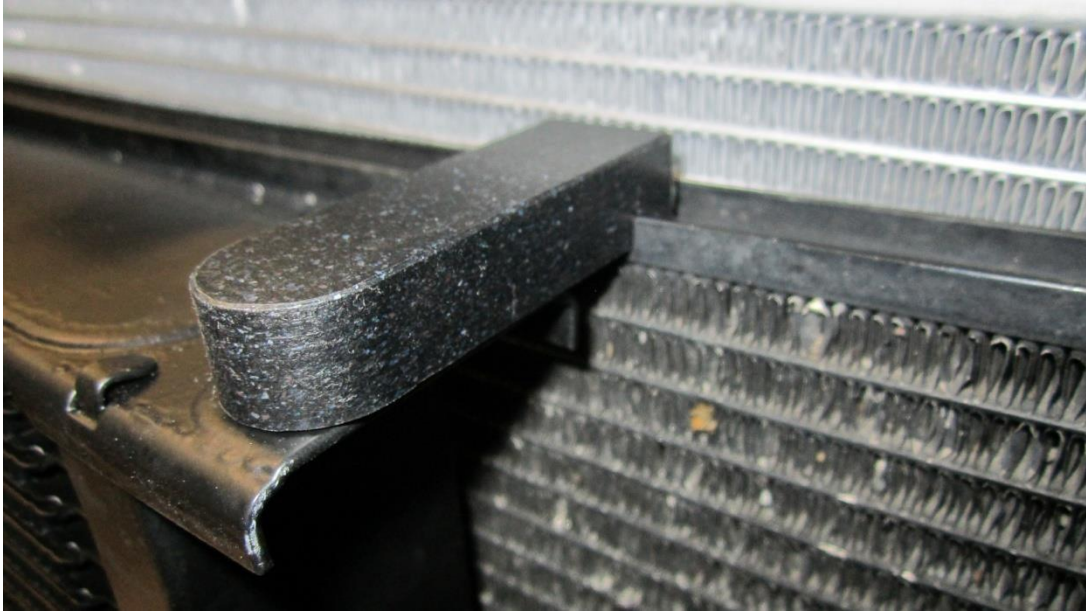
38. Attach the p clips while assembling.



39. Using a 10mm spanner tighten all of the m6 nuts on all cotton reels and the two P clips.



40. Place the two nylon blocks on top of the oil cooler and slide them over the condenser.



41.

Using the four M6 x 10mm button heads and washers mount and tighten the blocks using a 5 mm Allen key.



42. The new oil cooler kit is now fully assembled - make sure all fittings are tight. Add ONE litre of oil.
43. Start the vehicle and check for any leaks, once you are happy there are no leaks and all mounting is fully secure stop the engine and leave for a few minutes, then check the level again. It will need another 0.5 – 1.0 litres of oil. Follow steps 1-11 in reverse order to reassemble the bumper.
44. The installation should now be complete!