HYUNDAI i30N/Veloster N FMCT5 FITTING INSTRUCTIONS

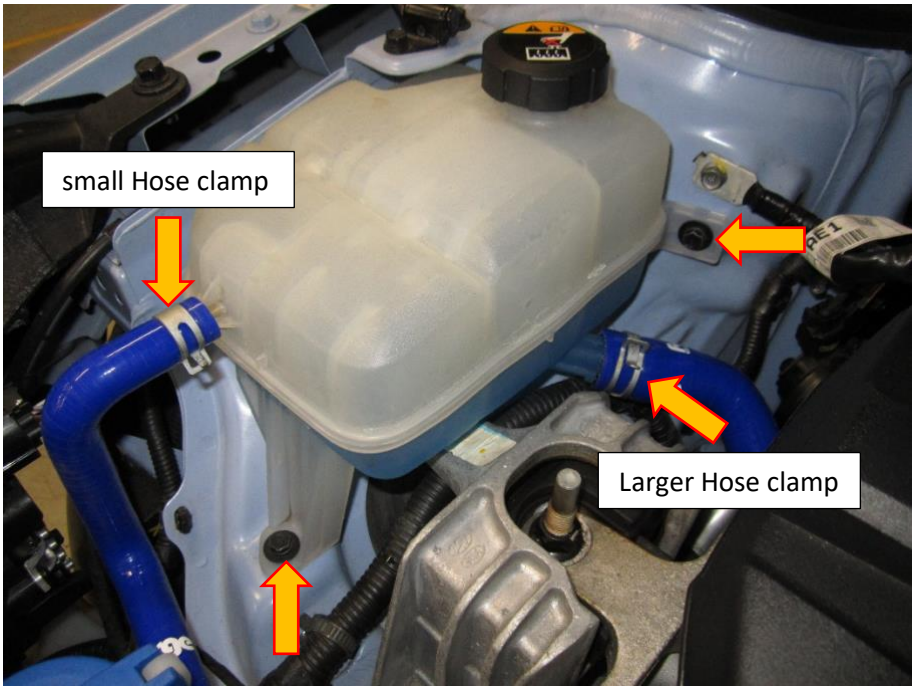


Please thoroughly read through and familiarise yourself with these instructions in their entirety prior to beginning any part of the installation process of any component. Please also ensure the vehicle and engine has cooled down sufficiently to avoid risking possible skin burns or other injury.

TOOLS NEEDED:

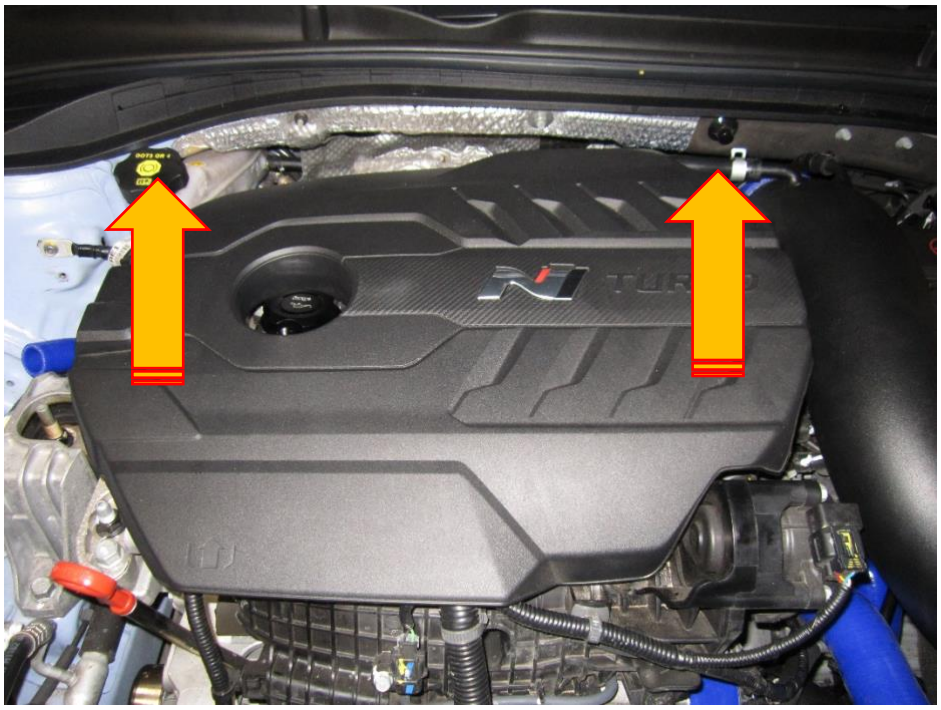
7/8/10/17/26mm socket with extension
17/22/25mm spanner or Adjustable spanner
Hose clamp removal tool/long nose plyers
Spring Clip Removal tool/Long nose pliers
Side cutters
3mm Allen Key

1. Open the bonnet of your vehicle and locate the OE coolant expansion bottle. There are two fasteners securing it in place, to remove them use a 10mm socket and rachet. Next remove the larger hose clamp at the bottom of the expansion tank, when removing this hose turn the expansion tank on its side at the same time to limit the amount of wasted coolant. Pour as much of the coolant into a container before removing the smaller hose.

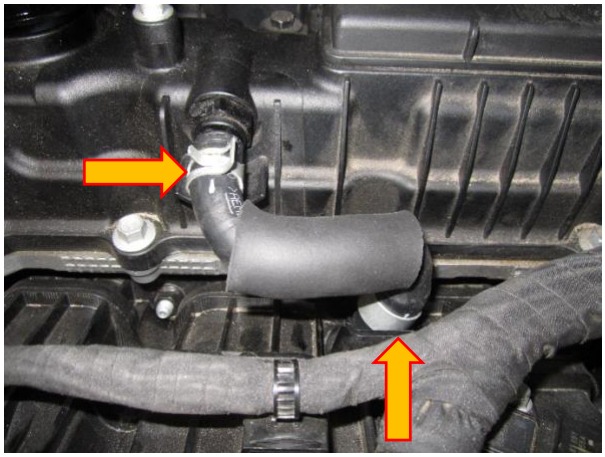


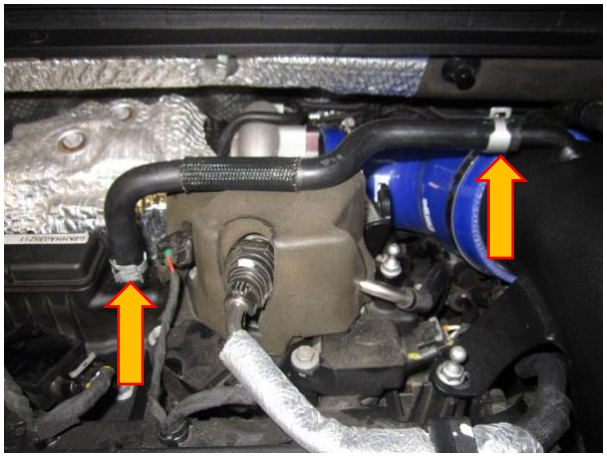


2. Remove the engine cover by pulling it upwards from both sides of the cover.



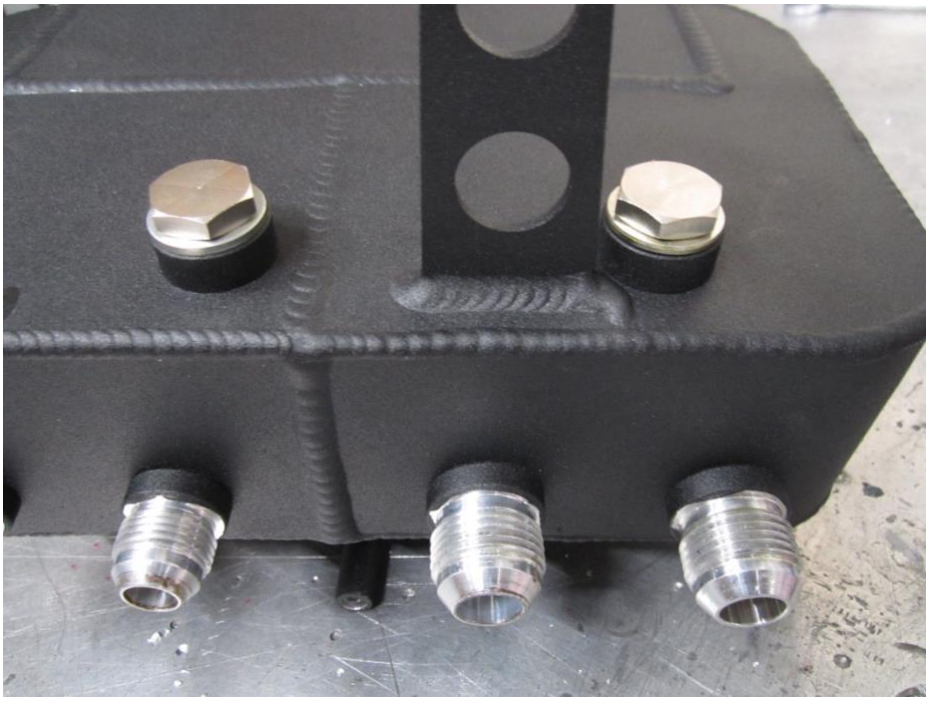
3. Locate the two breather hoses in the engine bay, the first one is at the front of the engine rocker cover and the second one is located at the back of the engine attached to the air intake pipe. To remove them release all four hose clamps in the same way as step one.





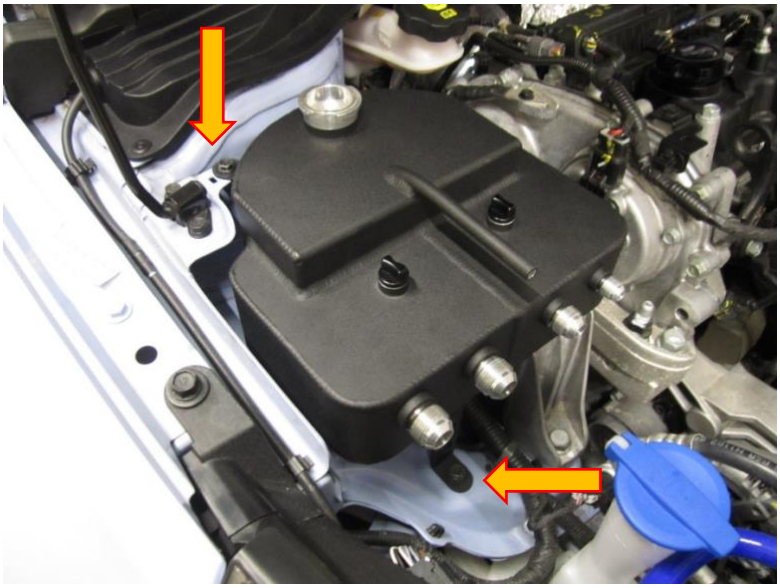


4. Make sure the two draining points at the bottom of the catch tank are fully tightened. Use a 17mm spanner to do this.



5. Fit the FMCT5 into the same location as the OE expansion tank, fit the lower coolant pipe using the original hose clamp. Secure the tank into place with the fasteners used to hold the OE tank as shown in the picture below. If you find the hose is kinking in the middle cut it's length down slightly.





6. If the tank is to be fitted to the Veloster please use the additional bracket and fasteners supplied as pictured below, the nut to the m6 bolt can be tightened from within the wheel arch.





7. Take the AN-8 line and attach the machined boss as pictured below and tighten to the hose.

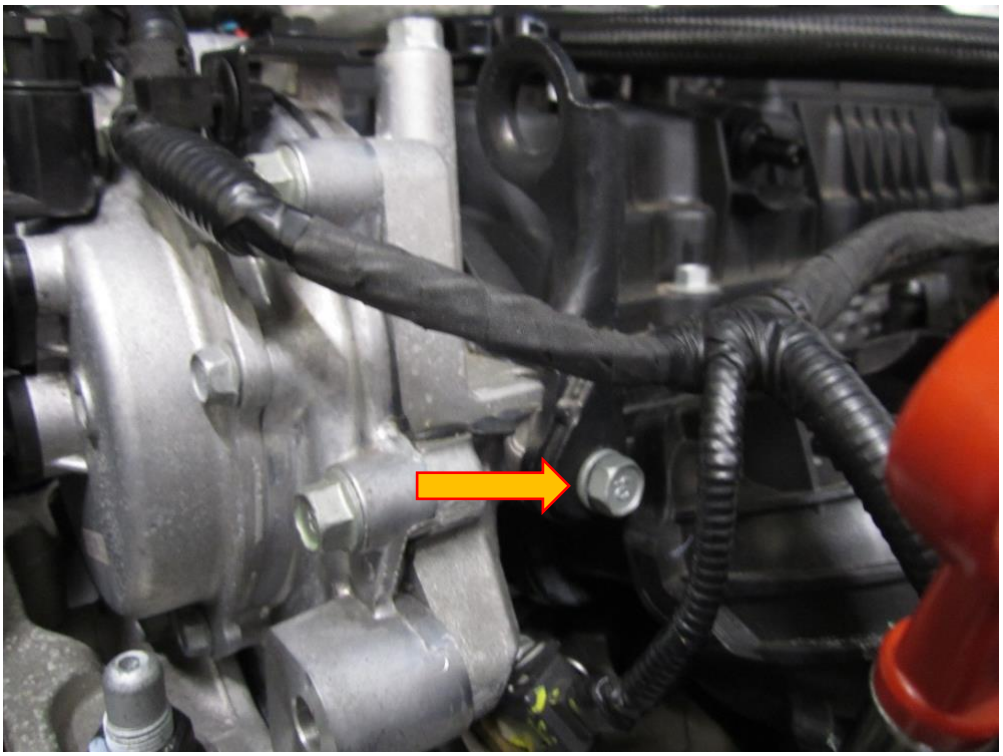




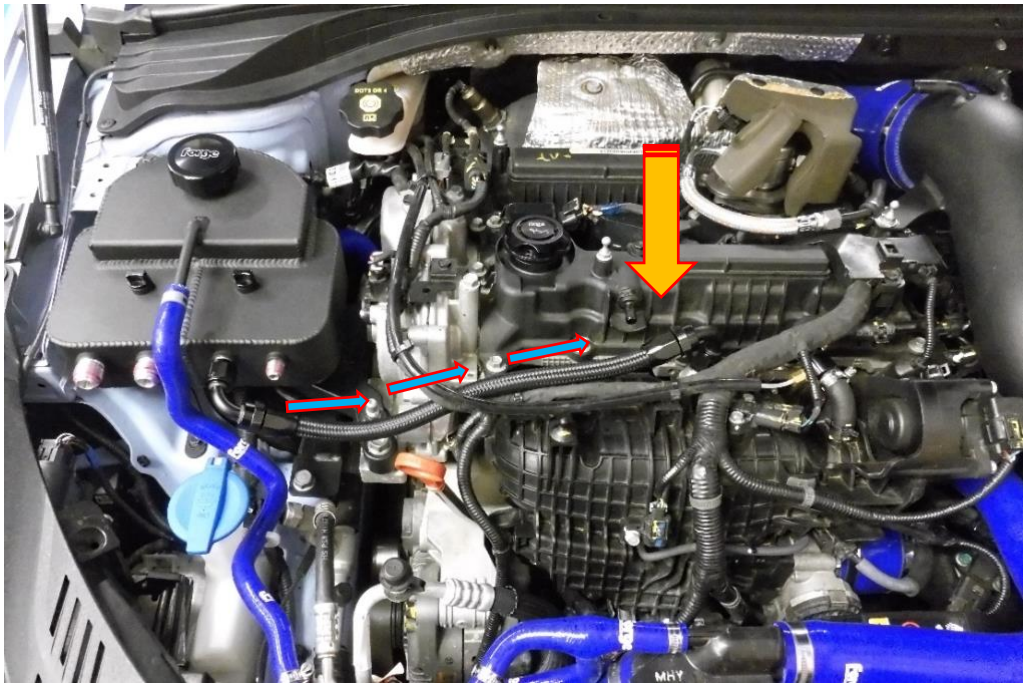
8. Fit the silicone hose to the end of the adapter but do not tighten the hose clamps.



9. Remove the engine hoist point, use a 10mm spanner to release the fastener attaching hoist to the engine.

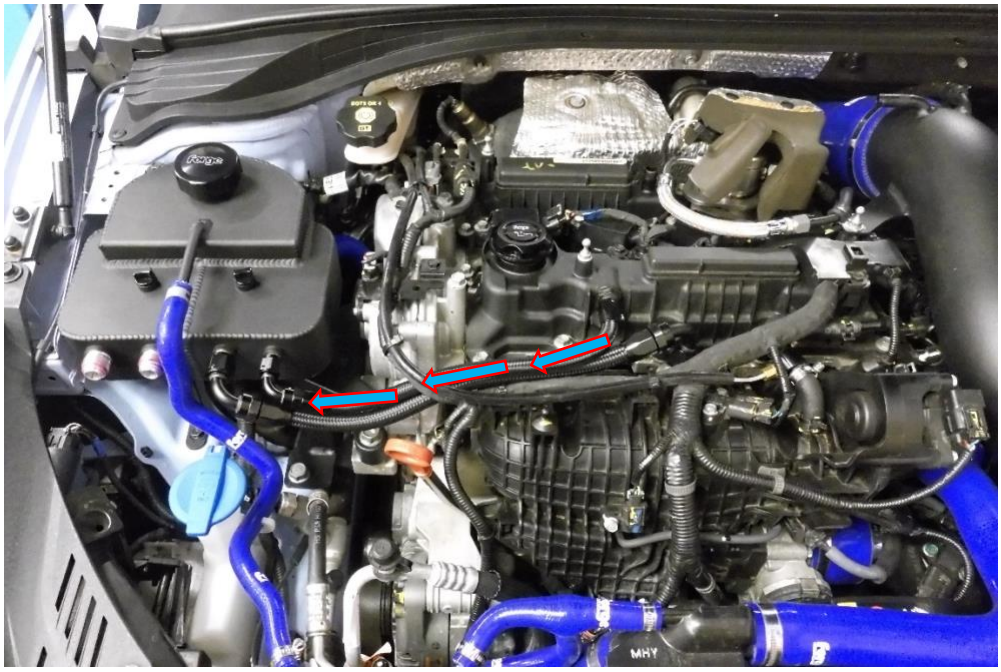


10. Fit the coolant return hose to the expansion tank. Attach the AN-8 fitting hose to the catch can use a 22mm spanner to tighten. The alloy fitting at the other end of the hose with the silicone elbow attached locates to the lower front oil breather. Once happy with the orientation of the hose tighten the hose clamps and AN-fittings.

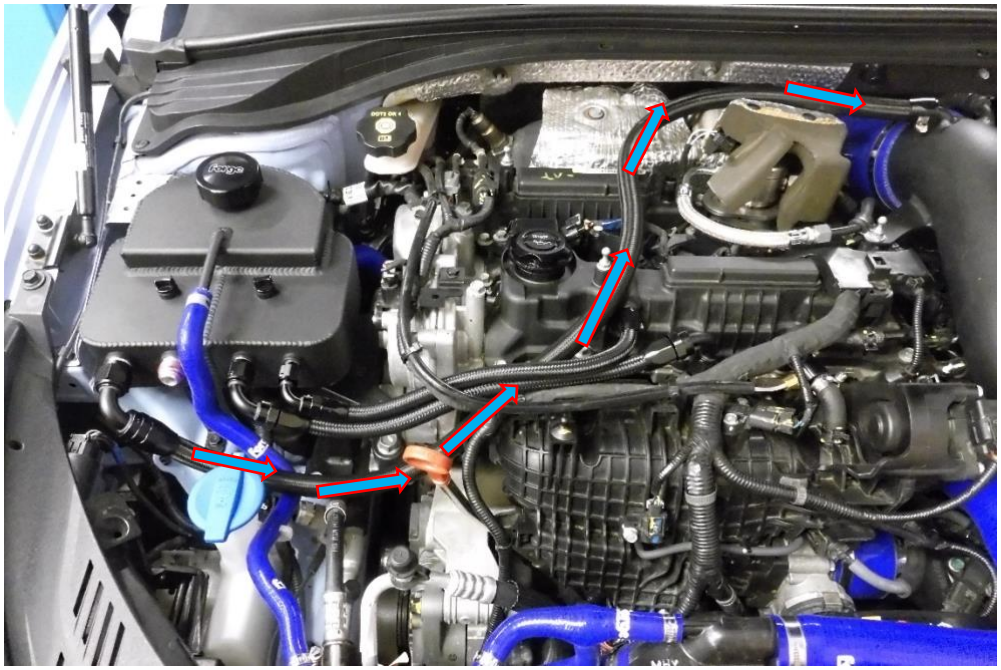




11. Attach the AN-6 fitting of the smaller hose to the catch tank and run the hose to the rocker cover as shown in the picture below. Use a 17mm spanner to tighten the AN-8 fitting and a 7mm socket to tighten the hose clamp on the breather end of the hose.

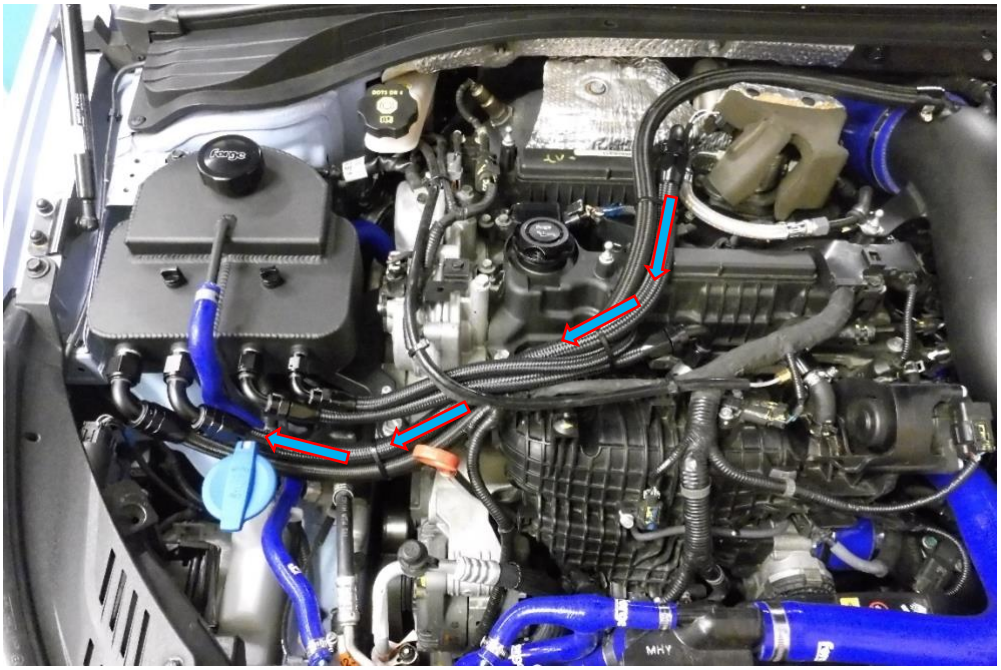


12. Take the longest hose from the kit and run the hose as shown in the picture below. Unclip the wiring loom to the injector behind the oil cap, this will allow you to run the hose underneath it, then re connect the loom. Use a 25mm spanner to tighten the AN-10 fitting and a 7mm socket for the hose clamp at the other end of the hose.

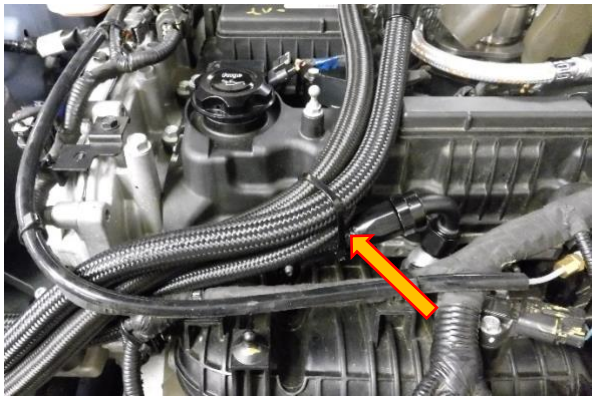


13. The last hose to be installed is another AN-10, run the hose as shown in the picture. As in step 8 the breather end has a push fit machined boss which is secured in place with a M4 fastener. Use 26mm spanners to tighten.



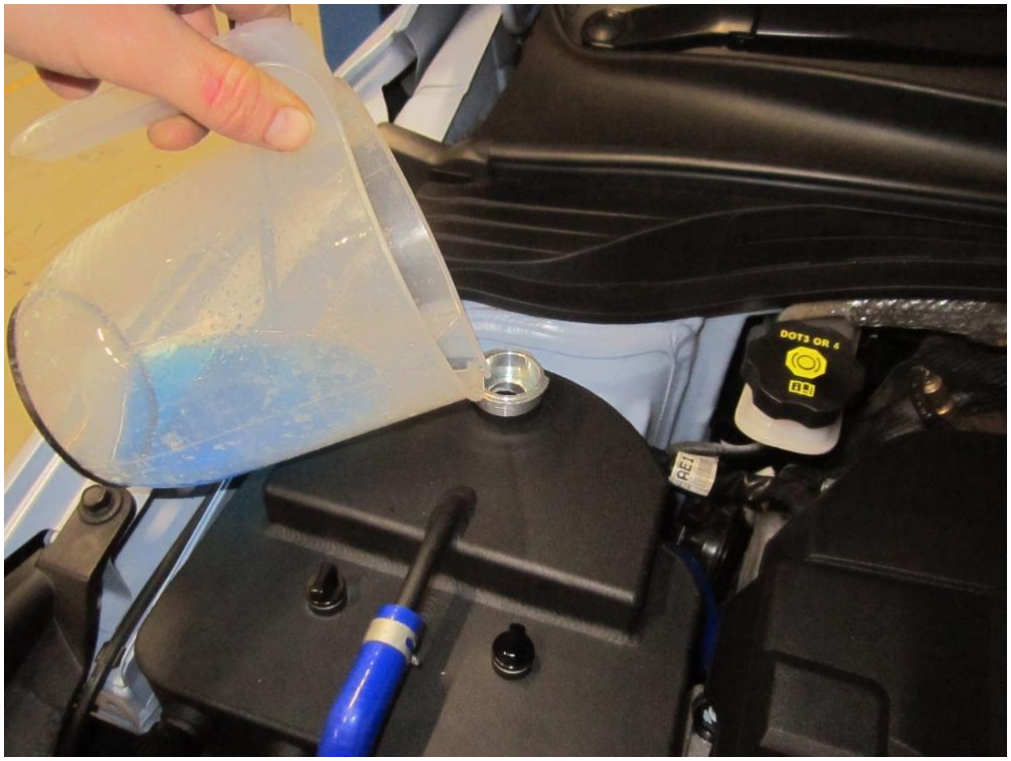


Add the supplied cable ties to the hoses as shown in the pictures below.





14. Re fill your coolant into the expansion tank, there is a maximum level indicator, the coolant should be just below this indicator. You may need to top this up after a few miles due to the system still bleeding any trapped air.





15. Take your original coolant cap and screw onto the Forge expansion tank. Once fully tightened place the Forge alloy cap over the OE cap line it up and fix into position with the grub screw.





16. Do a final spanner check on all your fittings and re fit the engine cover. Your installation of FMCT-5 is now complete.



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