



## FMCCRAD10 VOLKSWAGEN T6.1 2.0TDI CHARGECOOLER RADIATOR INSTALLATION INSTRUCTIONS



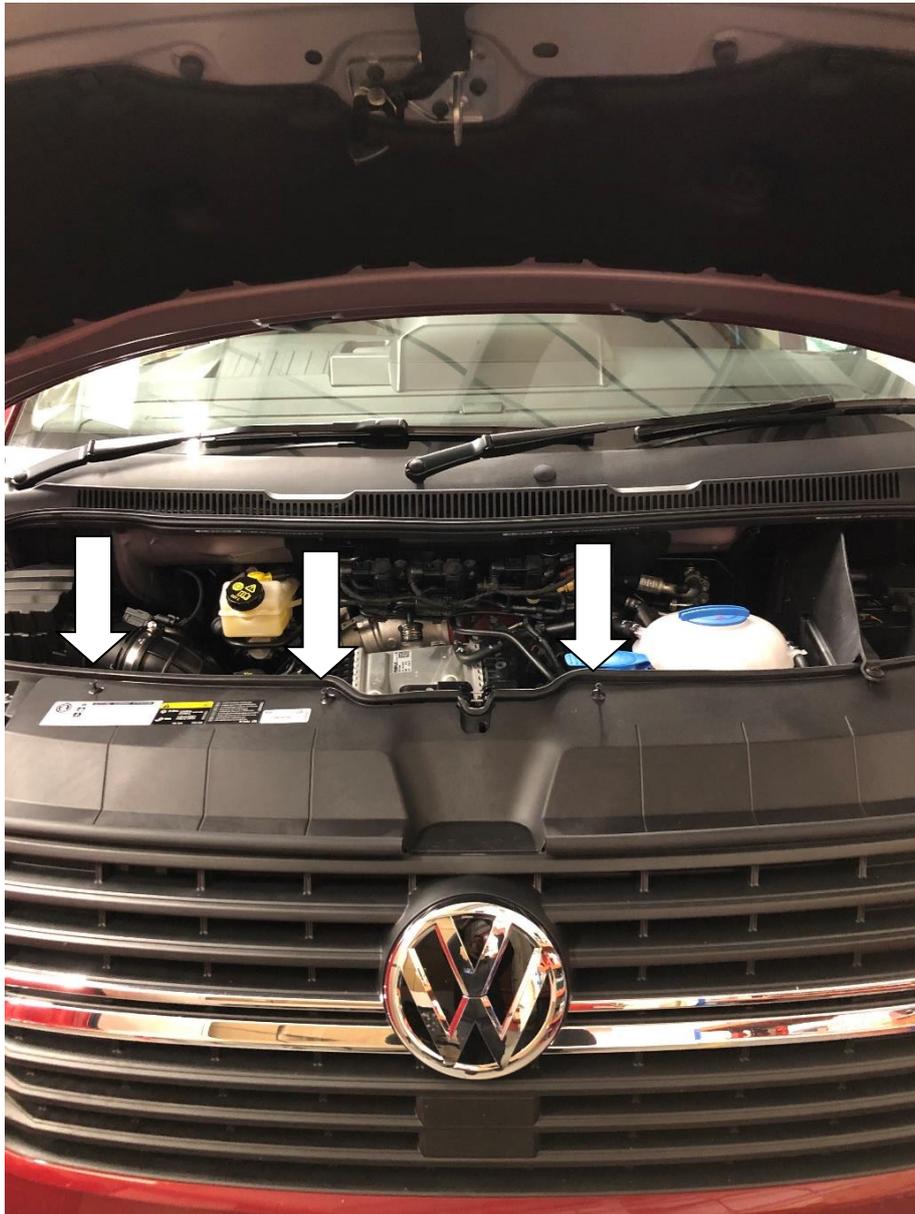
Please thoroughly read through and familiarize yourself with these instructions in their entirety prior to beginning any part of the installation process of any component. Please also ensure the vehicle and engine has cooled down sufficiently to avoid risking possible skin burns or other injury.

### Tools required:

- T25/T30/T40 Torx driver.
- 10/13mm socket and ratchet
- 7mm Hose clamp driver.
- Plastic panel-clip removal tool.
- Large flat blade screwdriver.
- Silicone lubricating spray.
- Ramp or axle stands

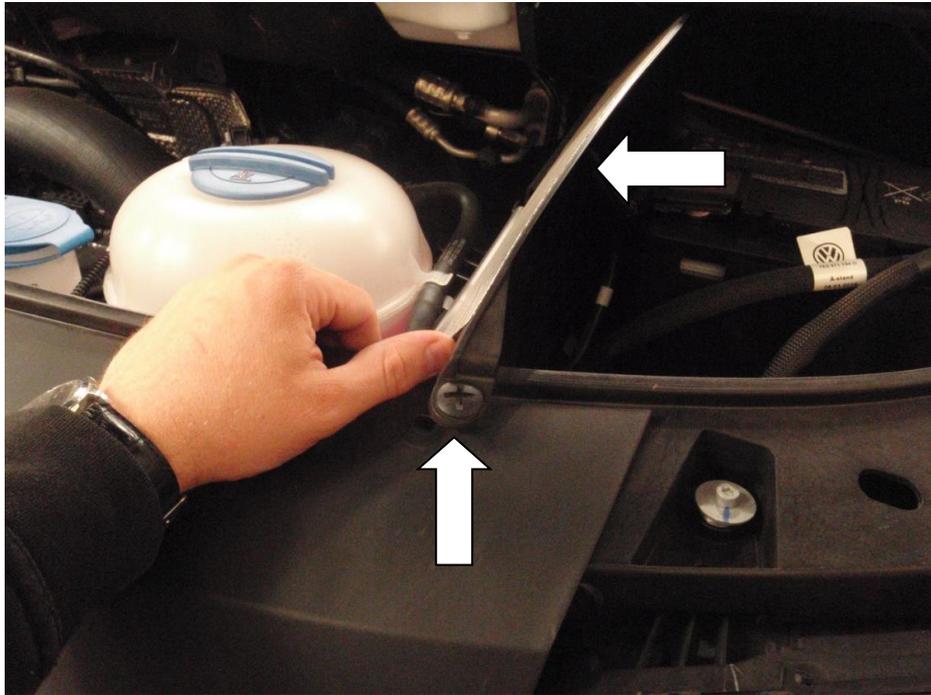
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1. Raise the vehicle on a ramp or suitable axle stands, to allow access to the underside of the front of the vehicle.
2. Open and secure the bonnet.
3. Using a plastic panel clip removal tool or flat-blade screwdriver remove the three plastic fasteners that run along the top of the slam panel.

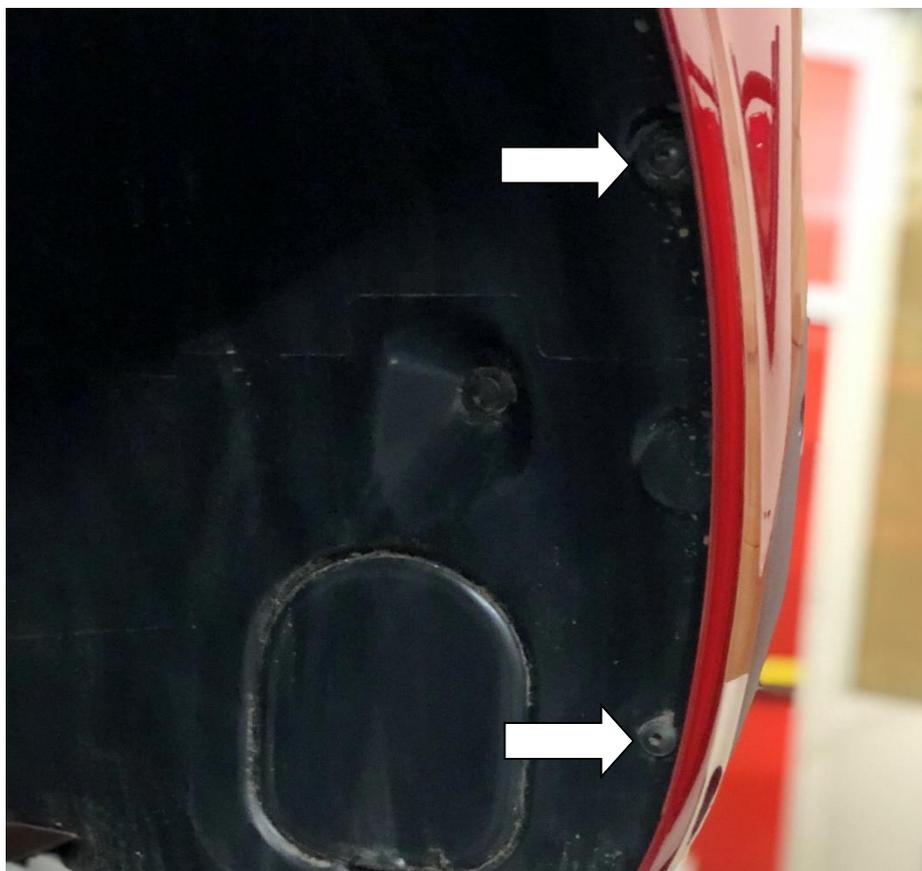


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- Using a large flat-blade screwdriver, undo the large plastic fastener and remove the plastic divider.

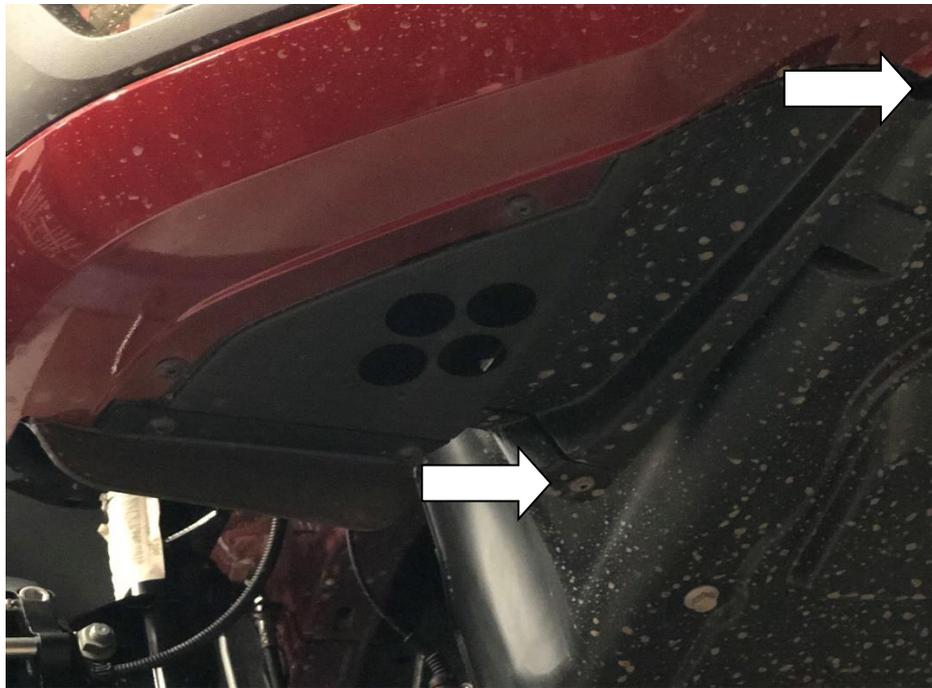


- Using a T25 Torx driver remove the 2x screws from inside each wheel arch.

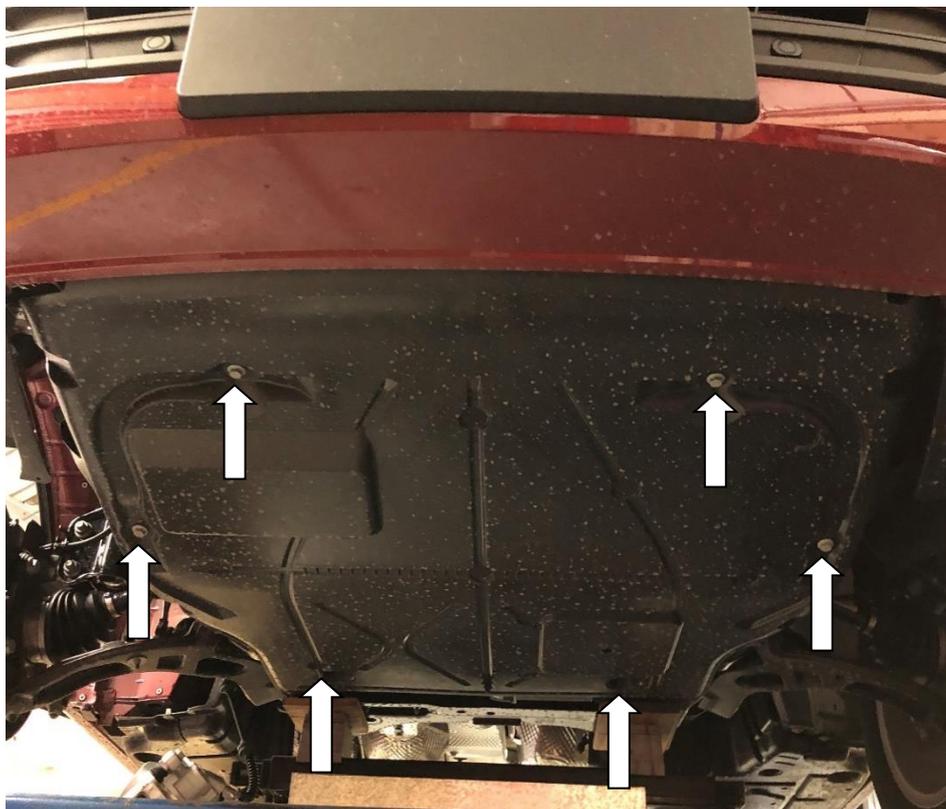


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- Using a T25 Torx driver undo the 2x fasteners securing the underside corner of the bumper to the arch liner, this is the same on either side.



- There are six 13mm fasteners holding the under tray to the vehicle, use a 13mm socket and ratchet to remove them.



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8. Pull the arch liner back to reveal the plastic trim fastener securing the top corner of the bumper to the wing. Remove from both sides of the bumper.

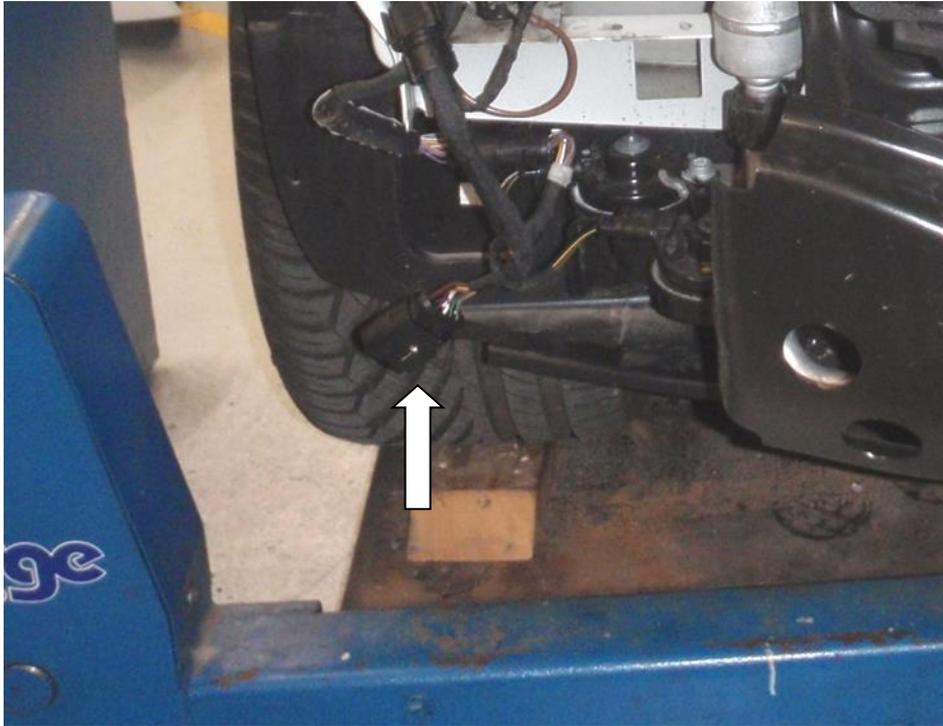


9. Carefully pull the edge of the bumper away from the vehicle starting at each wheel arch.



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10. Pull the arch liner back on the left-hand side of the vehicle and disconnect the large wiring plug.

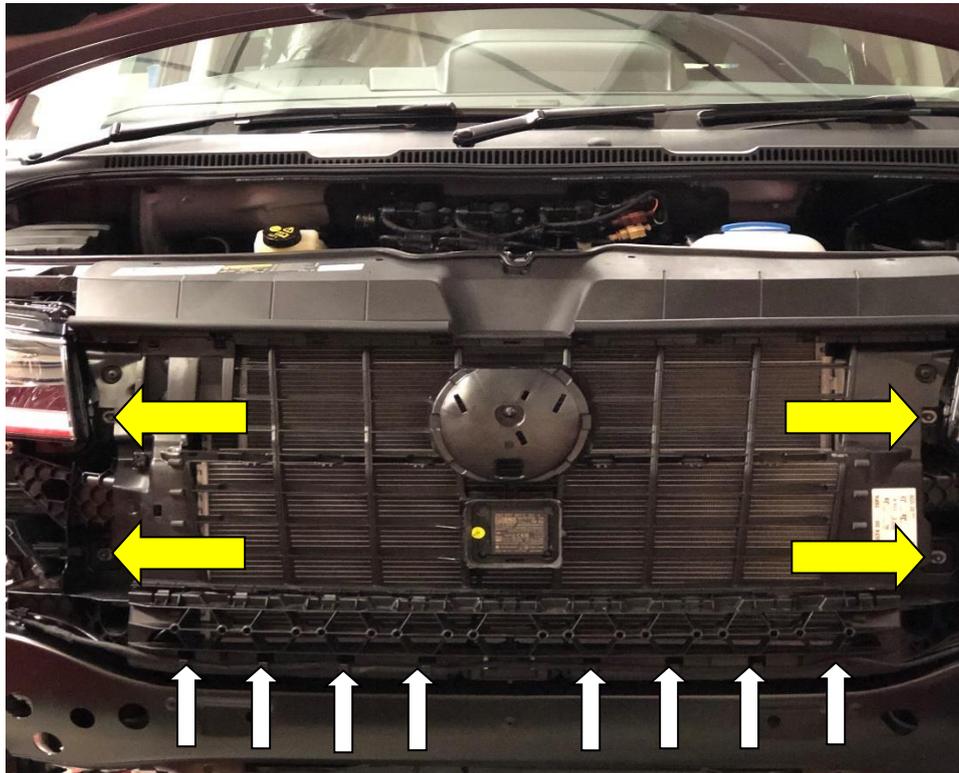


11. Loosen the fasteners for the head lights but do not remove the lights, three are T30 Torx and one is a T25 Torx.

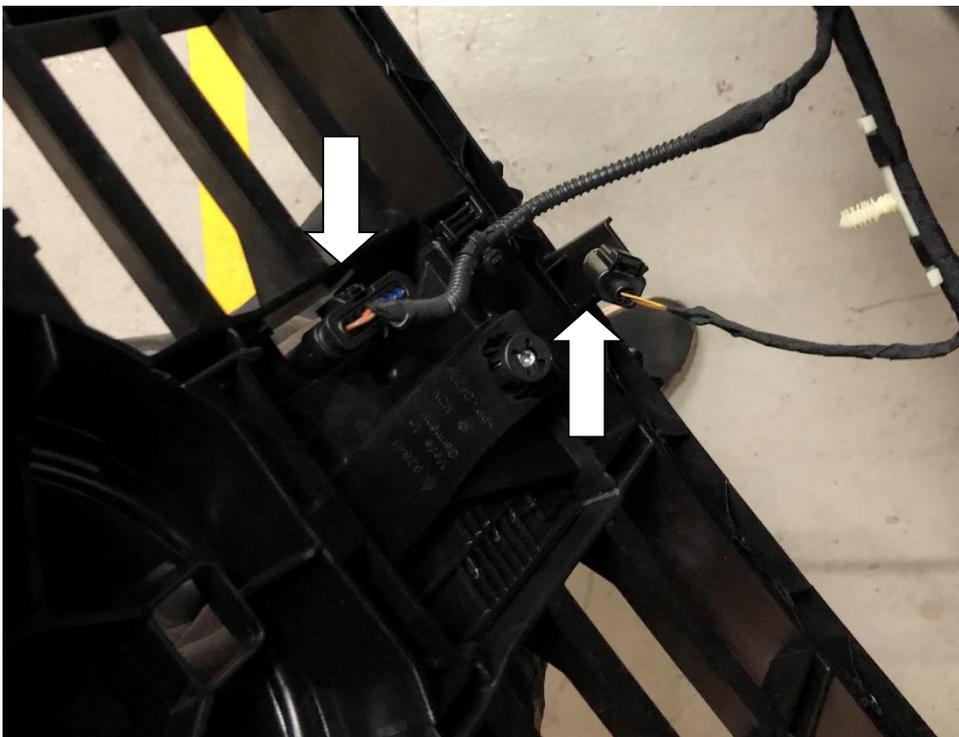


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12. Unclip the wiring loom that runs along the bottom of the plastic support panel. Now remove the four T30 fasteners securing the plastic support panel, the panel will now pull away from the vehicle.

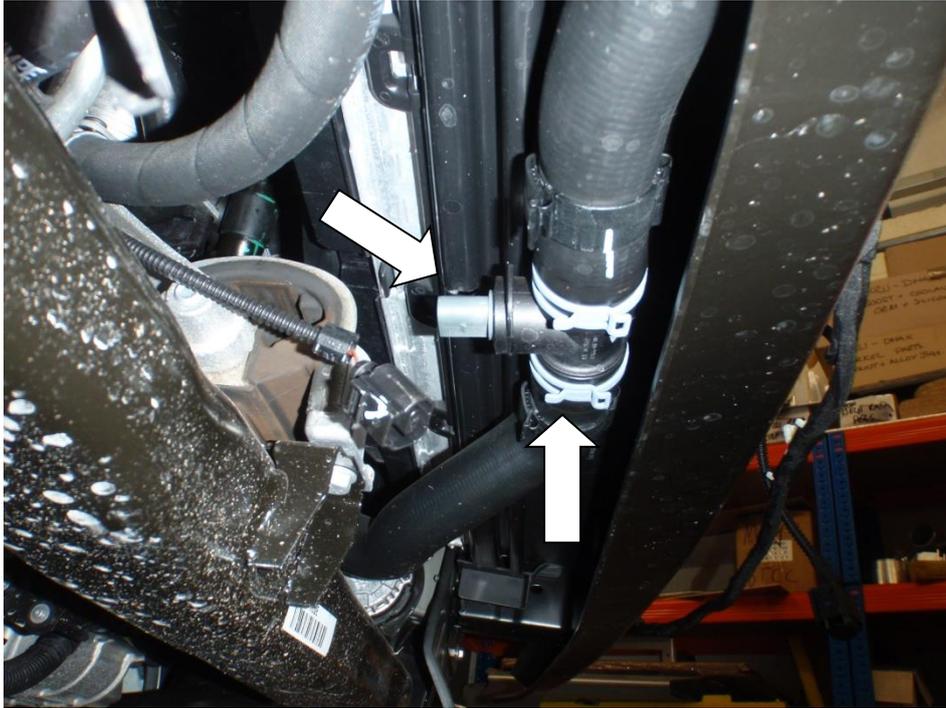


13. Unplug the temperature sensor and ACC (Vehicle specification depending)

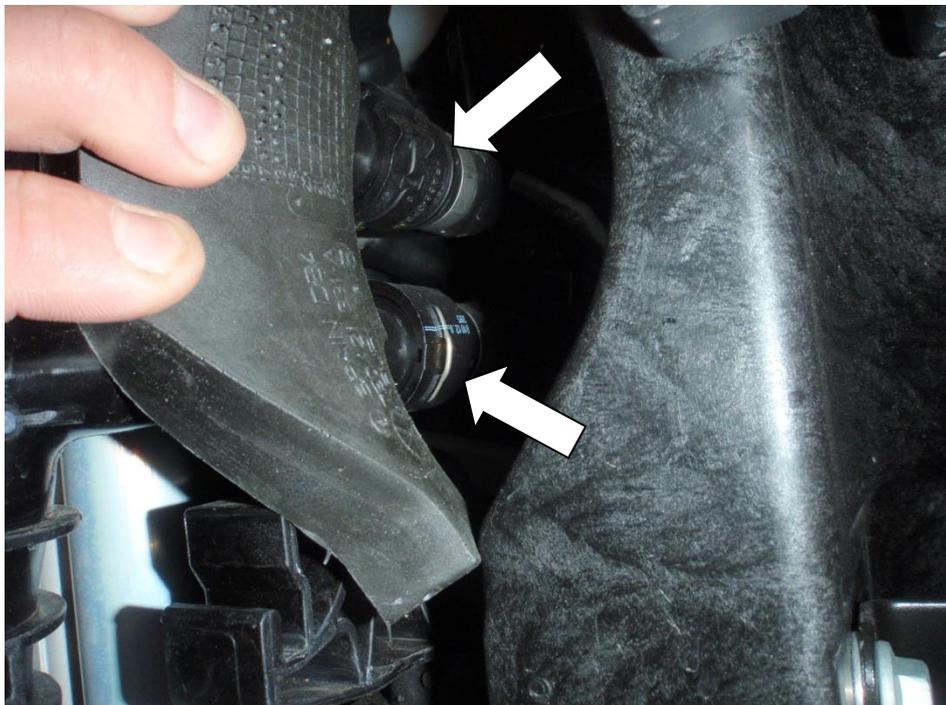


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14. To drain the coolant from the vehicle. Disconnect the wiring to this sensor. Remove the horseshoe clip and remove the sensor. Have a suitable container ready to drain the coolant.

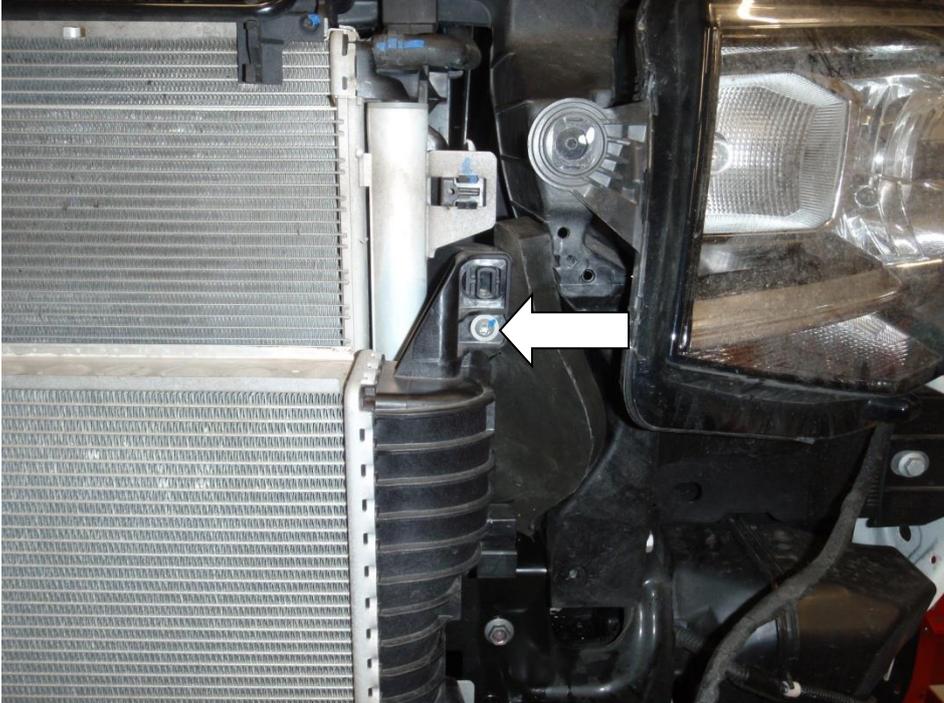


15. Using a flat blade screwdriver release the clips on the charge cooler radiator couplers.



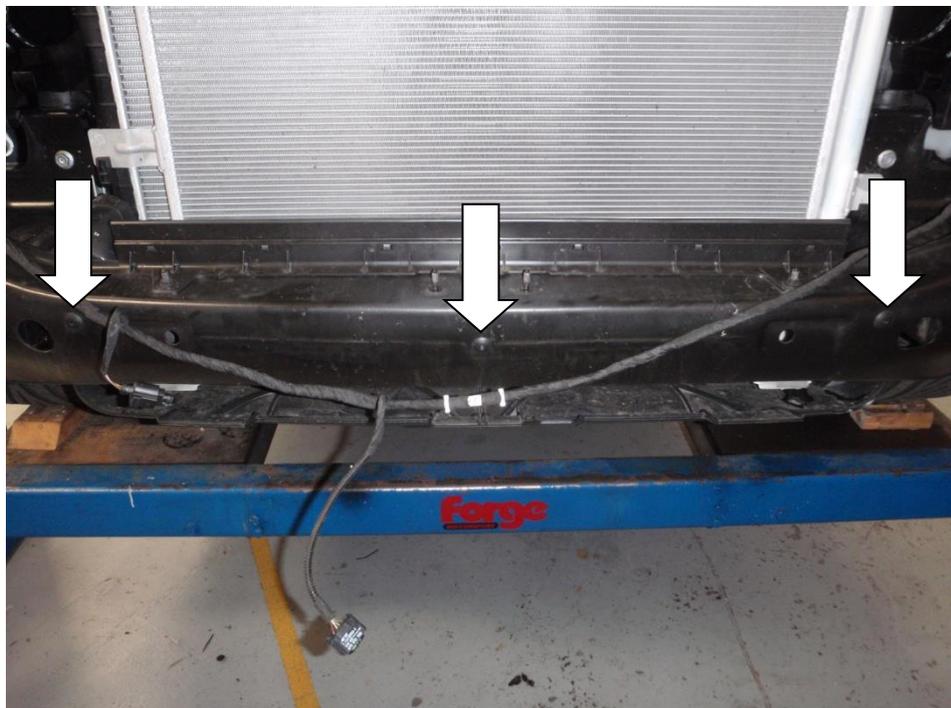
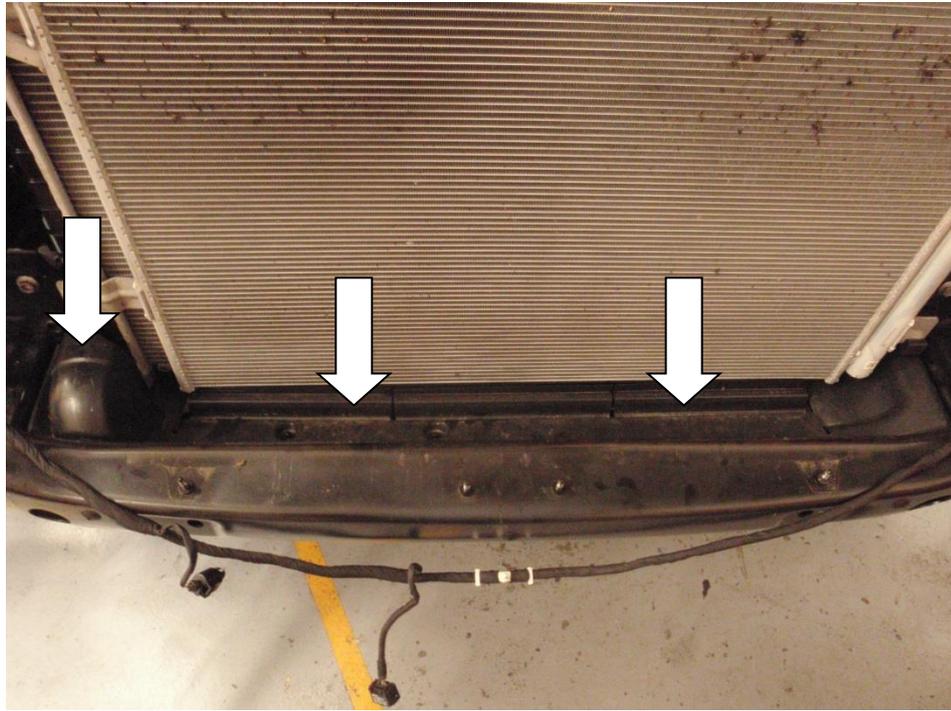
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- Using a T30 Torx driver undo 2x screw on the left-hand and right-hand charge cooler radiator top mounts and remove the OEM charge cooler radiator from the vehicle.

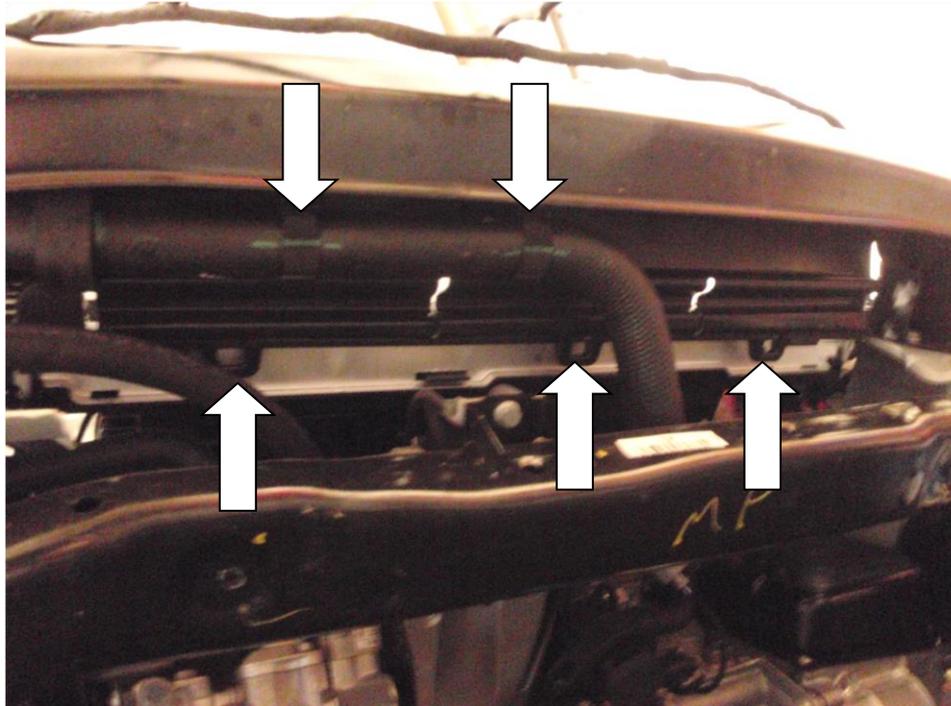


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17. To fit the charge cooler radiator without trimming, remove the radiator hose cover. Remove 3x clips from the crash bar, unclip from the bottom of the radiator and unclip the hose clamps.

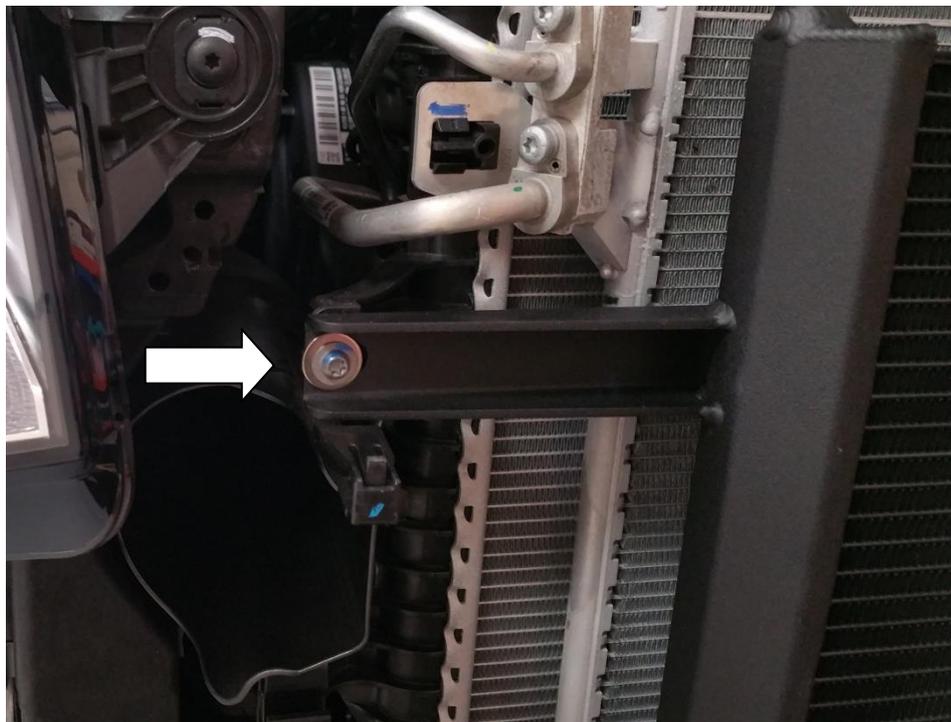


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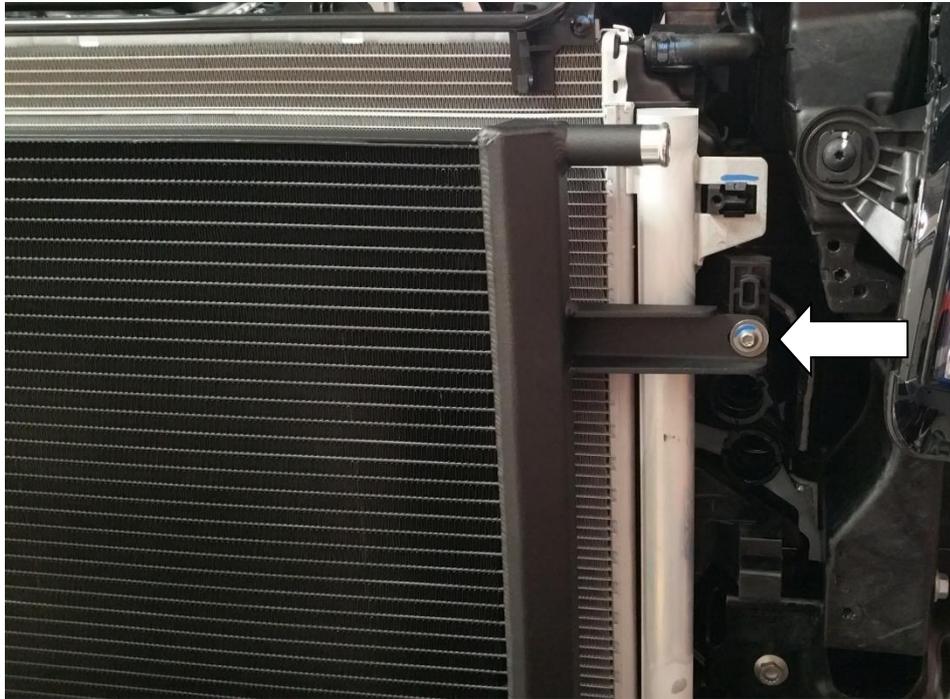


18. Place the Forge chargecooler radiator in position.

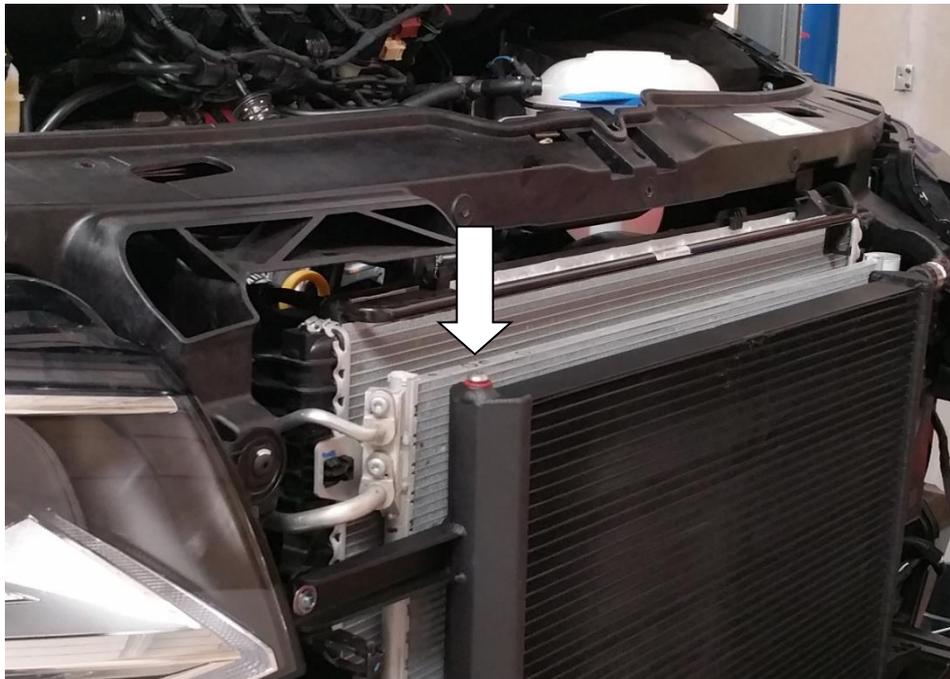
19. Secure the top brackets in place with the 2x OEM screws and the 2x 6mm ID x 20mm washers provided.



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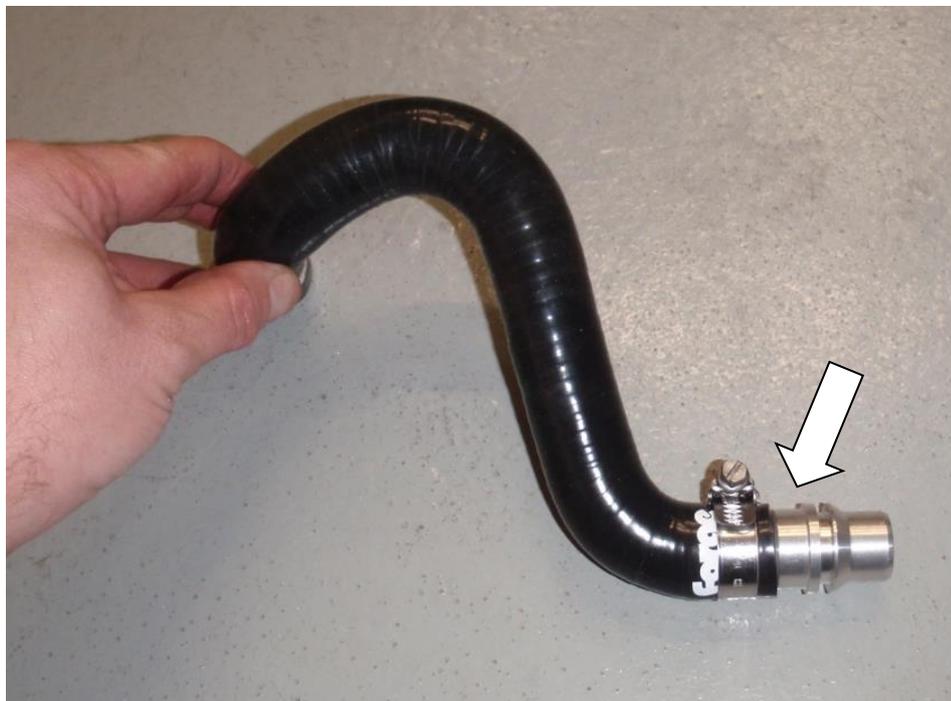


20. Fit the M8 x 12mm Allen cap bolt and red fibre washer provided to the bleed outlet on top of the charge cooler radiator. Do not fully tighten.



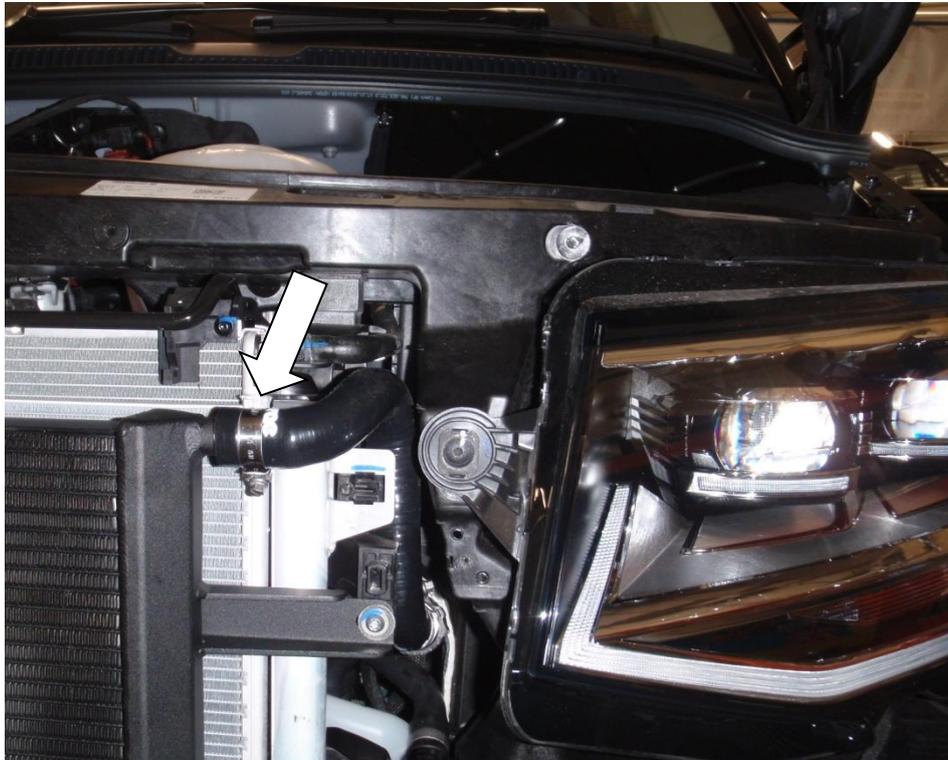
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21. Fit the coolant coupler to the hose (marked #1889) provided as shown in the photo below and secure the coupler with a suitable hose clamp provided.



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22. Fit the open end of the hose to the top outlet of the charge cooler radiator and fit the aluminium coupler into the female OEM coupler ensuring the spring clip has correctly seated.

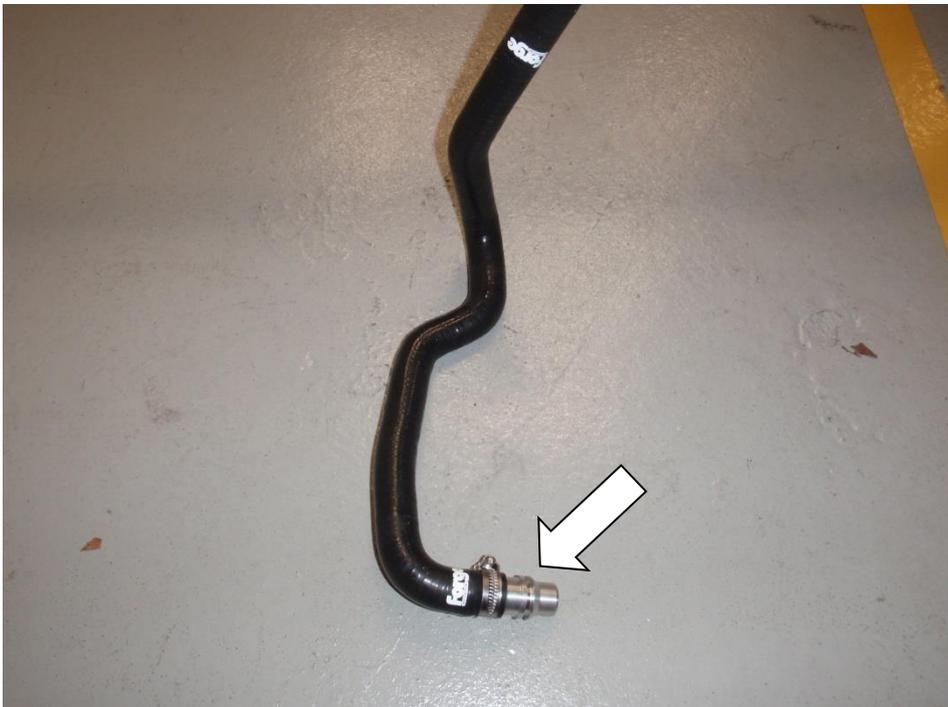


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23. Using the remaining 2x hoses, 1x hose joiner, 1x coolant coupler and hose clamps, connect the second outlet of the chargecooler radiator to the OEM female coolant coupler.

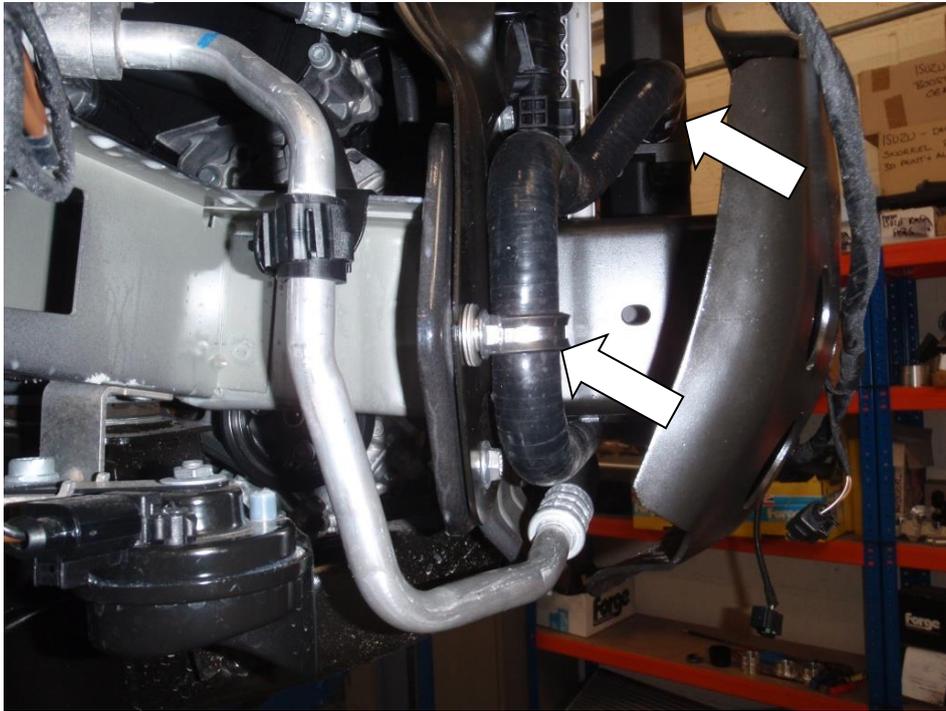


24. Fit the coolant coupler to the hose (marked #1888) provided as shown in the photo below and secure the coupler with a suitable hose clamp provided.

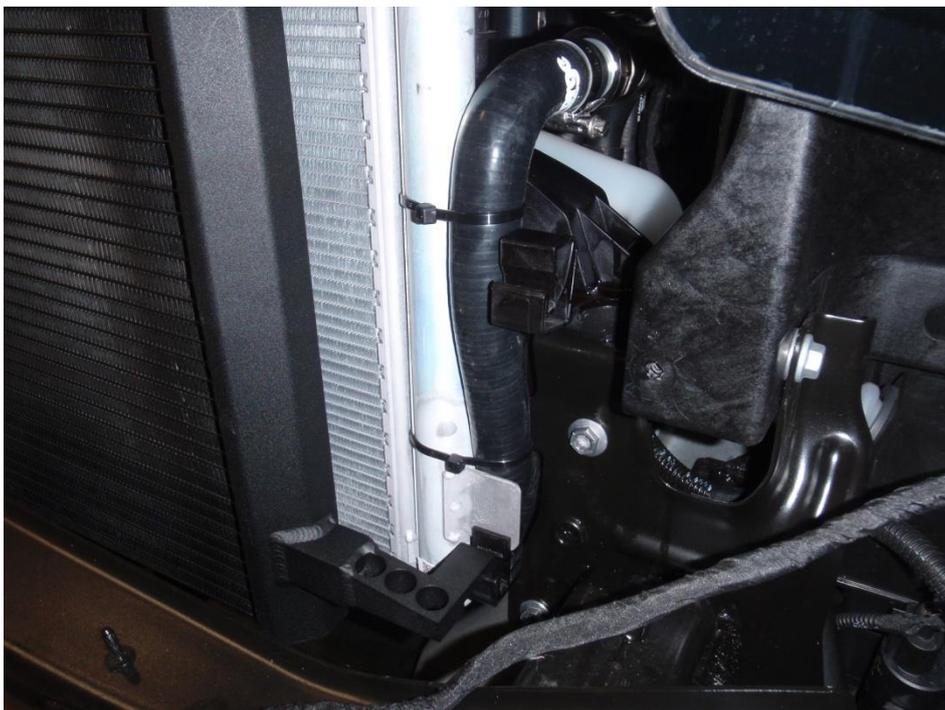


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25. Connect the other hose to the outlet of the chargecooler and secure with a suitable hose clamp provided. Using the P-clip, M8 x 30mm Allen cap head bolt and the 3x 8mm penny washers provided, secure the silicone hose in position.



26. Feed the hose with the coolant coupler between the chassis and the AC condenser and secure in position with 2x cable ties provided. Insert the aluminium coupler into the OEM female coupler and ensure the spring clip is correctly seated.



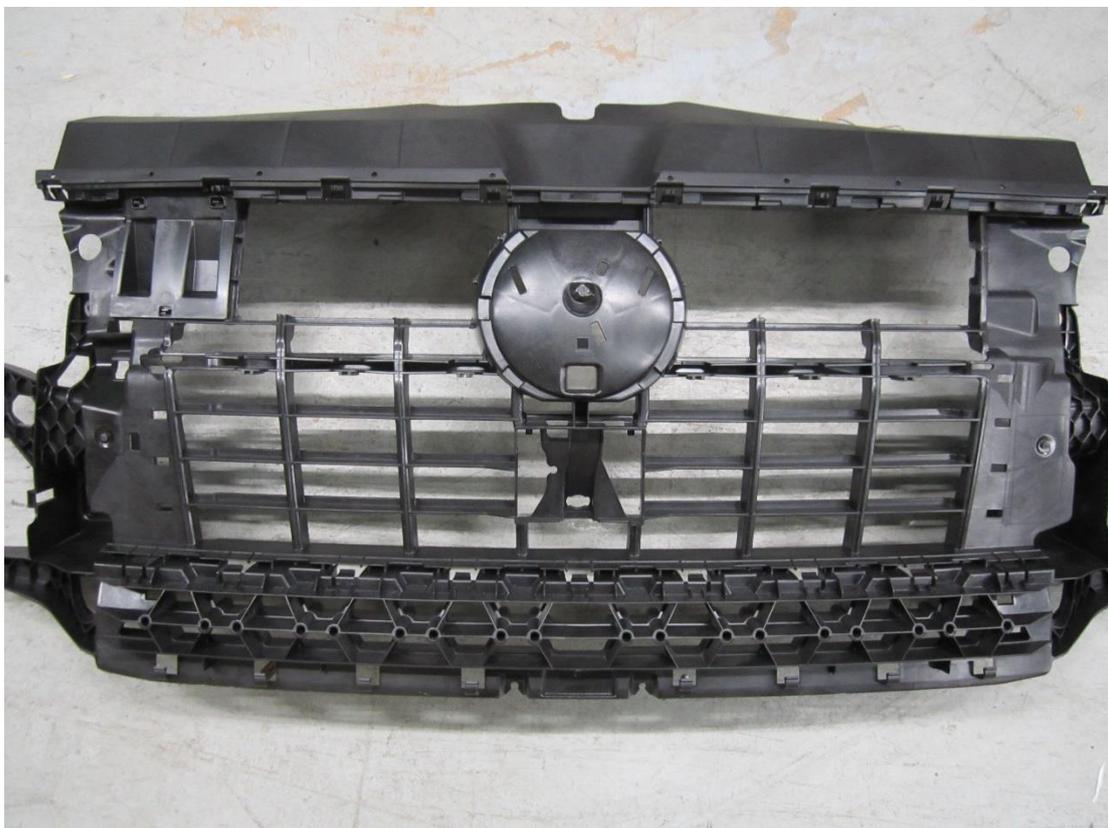
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27. From underneath the vehicle, connect the two hoses together using the 19mm hose joiner and 2x hose clamps provided.
28. Check that the hoses are positioned correctly before fully tightening all the hose clamps.
29. Refill the engine coolant to the correct level before refitting the bumper and bleed any air out of the charge cooler radiator using the M8 Bleed screw on top.

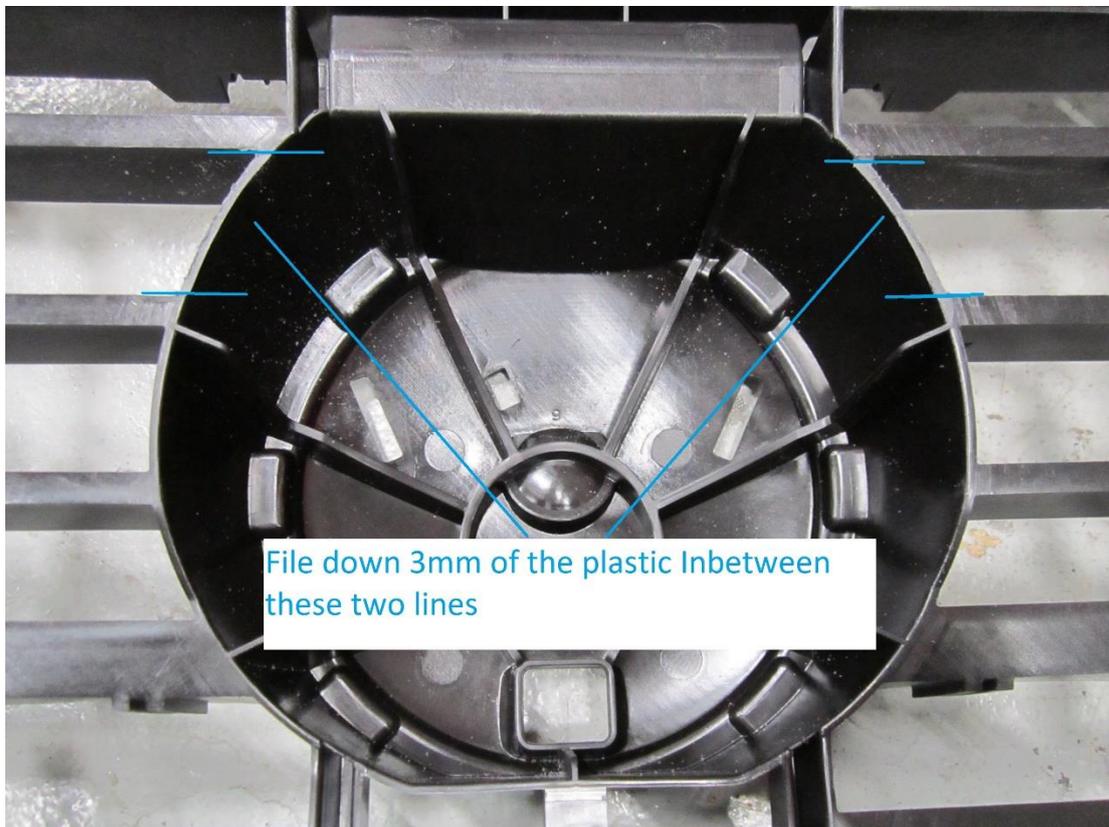
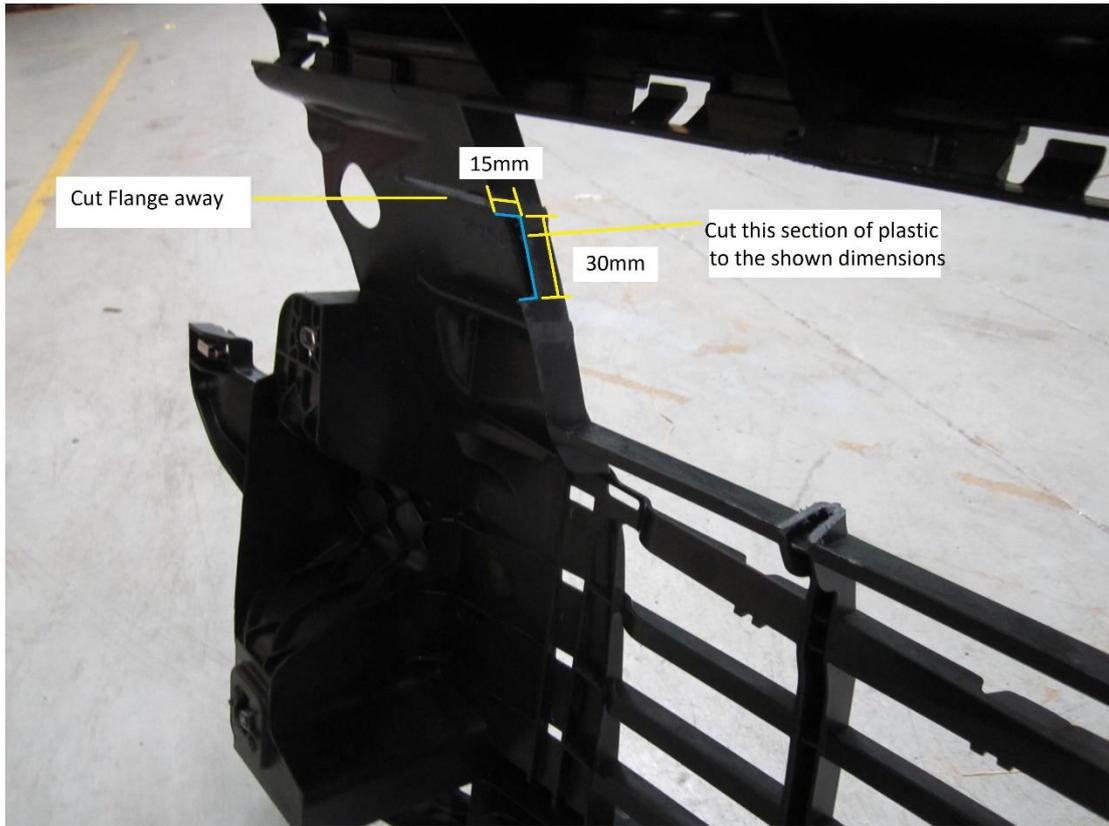


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30. With the FMCCRAD10 now fitted you will have to modify the plastic support panel for it to fit back into place. Cut away all the areas marked below with a hacksaw and file.



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31. Reassemble your vehicle in the reverse order of disassembly.
32. Your installation should now be complete. Enjoy Your New Performance!

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For a full range of performance products for your vehicle.

If you have any questions or concerns about this product or anything else, please feel free to contact your local or preferred Forge Motorsport Dealer/Installer or you may contact us directly.

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## **Important Information Regarding Your New Forge Cooling Product**

Thank you for purchasing a Forge Motorsport cooling product. You now have a product that simply leaves the competition behind – made in Great Britain, with a lifetime warranty. All you need to do now is install and maintain the product correctly to maximise its full potential.

All Forge products are tested before leaving our facility to ensure you 100% satisfaction and reliability.

### **General information and care for your Forge cooling product:**

- On installing your intercooler/radiator, be sure that all hose clamps and fittings are tightened to prevent any leakage.
- Ensure that the intercooler/radiator and the associated plumbing components are not rubbing on any body parts. This can cause premature failure and warranty invalidation from Forge.
- Do not use any car cleaning products, particularly traffic film remover solutions or shampoos to clean your intercooler, radiator or oil cooler. The use of these products can damage the Forge cooling systems and invalidate your warranty.
- Any cleaning should be done with hot soapy water and well rinsed.
- We recommend that you should inspect your product on a regular basis for bent and/or crushed fins. Any bent fins should be carefully straightened to allow ambient air to pass through the core face.
- At the time of installing your Forge product, an approved coolant must be used and added to the coolant system. Be sure you never mix coolant and always use distilled water.
- On Forge Oil Coolers, please ensure all hose clamps and fixings are tightened and secured to prevent leakage.
- Do not exceed 9 bar (130 psi) rating on your oil cooler.

### **What should you do if a fault develops?**

If you suspect that you have an issue, you should take your vehicle back to where the installation of your Forge product was carried out, or to a suitable and qualified tuner for investigation of the problem.

If you suspect that the problem has occurred due to faulty manufacture, please contact your Forge dealer or Forge Motorsport UK, Forge Motorsport USA or Forge Motorsport Asia, depending on your geographical location, to discuss the issue.

### **How to get the Best from your Forge cooling products**

- Ensure the fitting is carried out by a reputable and competent garage, tuner, or mechanic.
- Carry out regular visual checks, inspections, and servicing.
- Only fit the Forge cooling product for the application that it was designed for.
- Do not fit other parts that could detrimentally affect the efficiency of your Forge cooling product.



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