



## HYUNDAI i30N FMDV20 FITTING INSTRUCTIONS

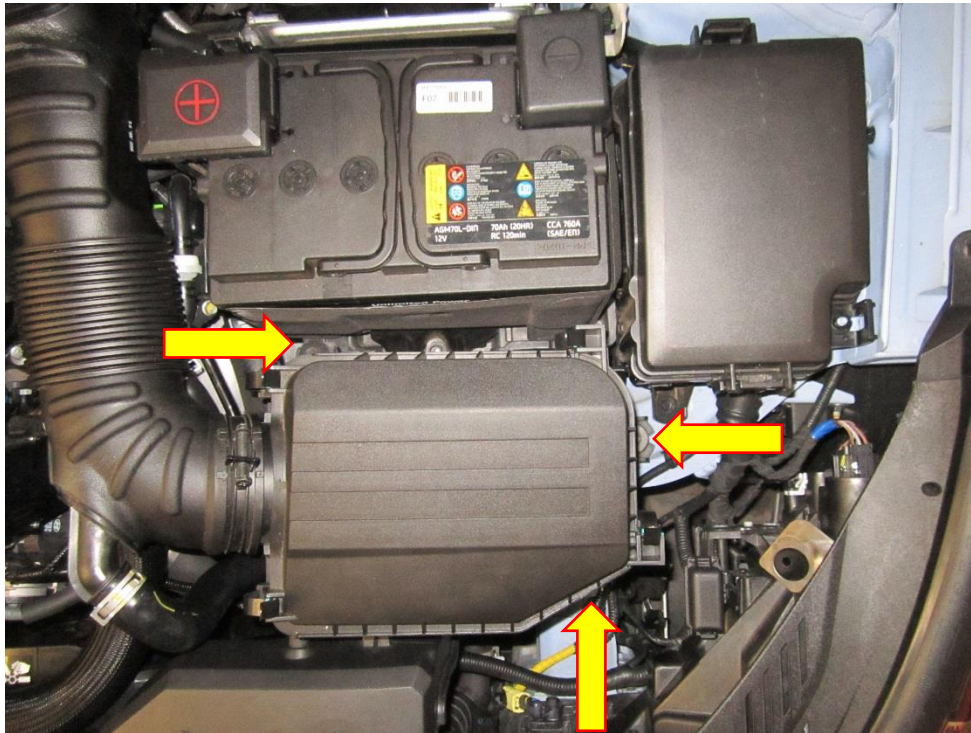


**Please thoroughly read through and familiarise yourself with these instructions in their entirety prior to beginning any part of the installation process of any component. Please also ensure the vehicle and engine has cooled down sufficiently to avoid risking possible skin burns or other injury.**

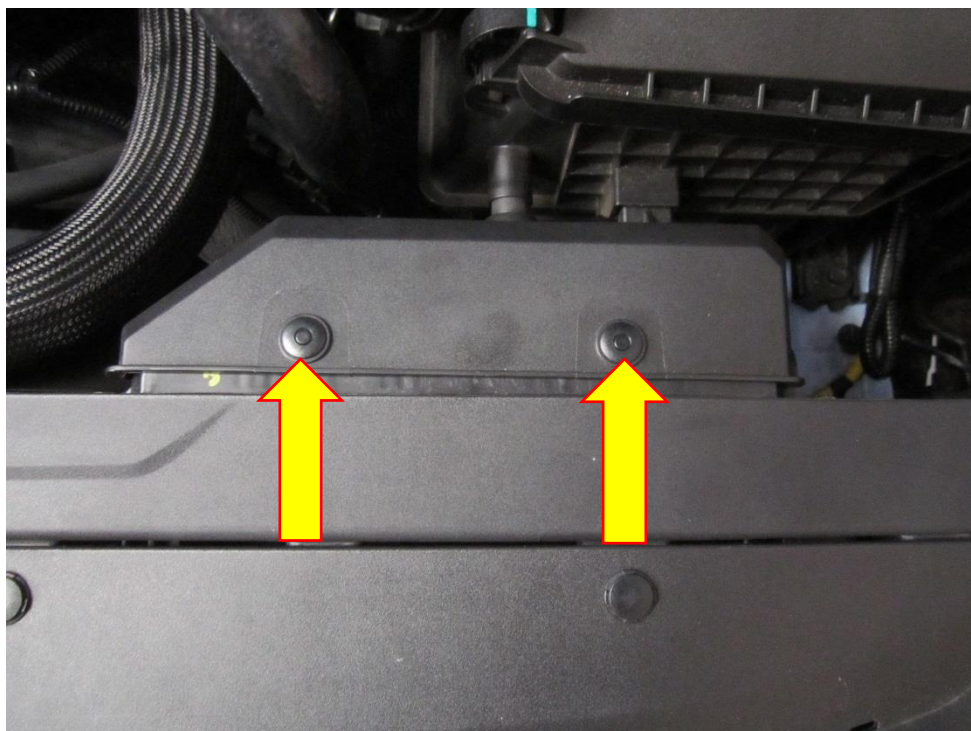
### **TOOLS NEEDED:**

- 10mm socket with extension
- Flat bladed screwdriver/Trim Removal Tool
- 5mm Allen key
- Spring Clip Removal tool/Long nose pliers

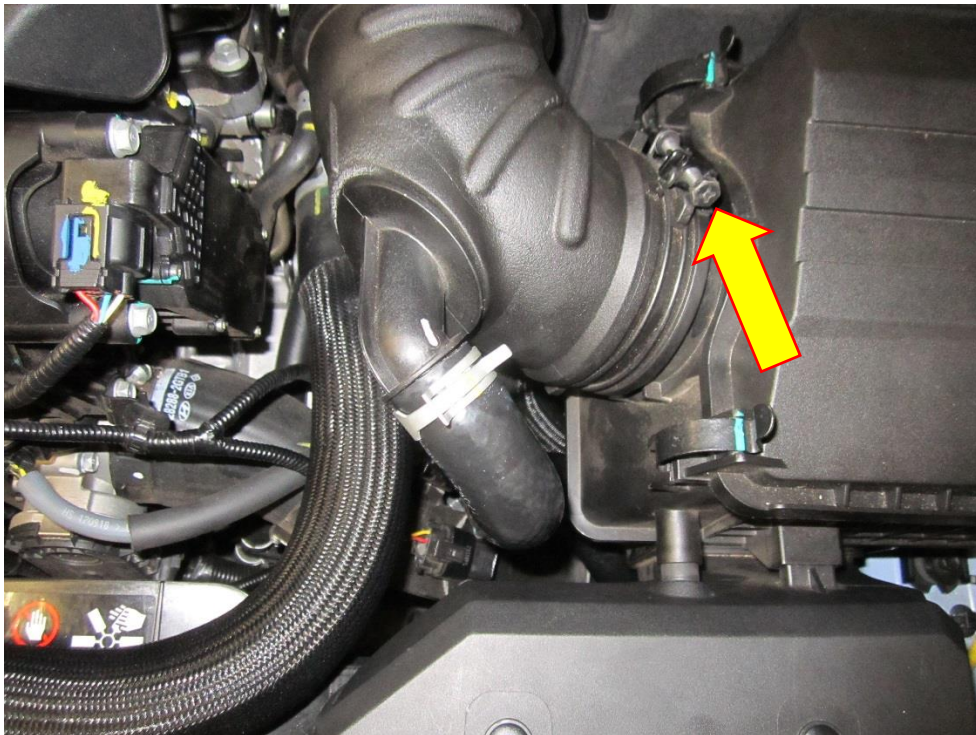
1. With the engine and the ignition switched off, open the bonnet and locate the air box. The box has three 10 mm fasteners holding it in place as shown with the arrows in the picture below. These need to be undone.



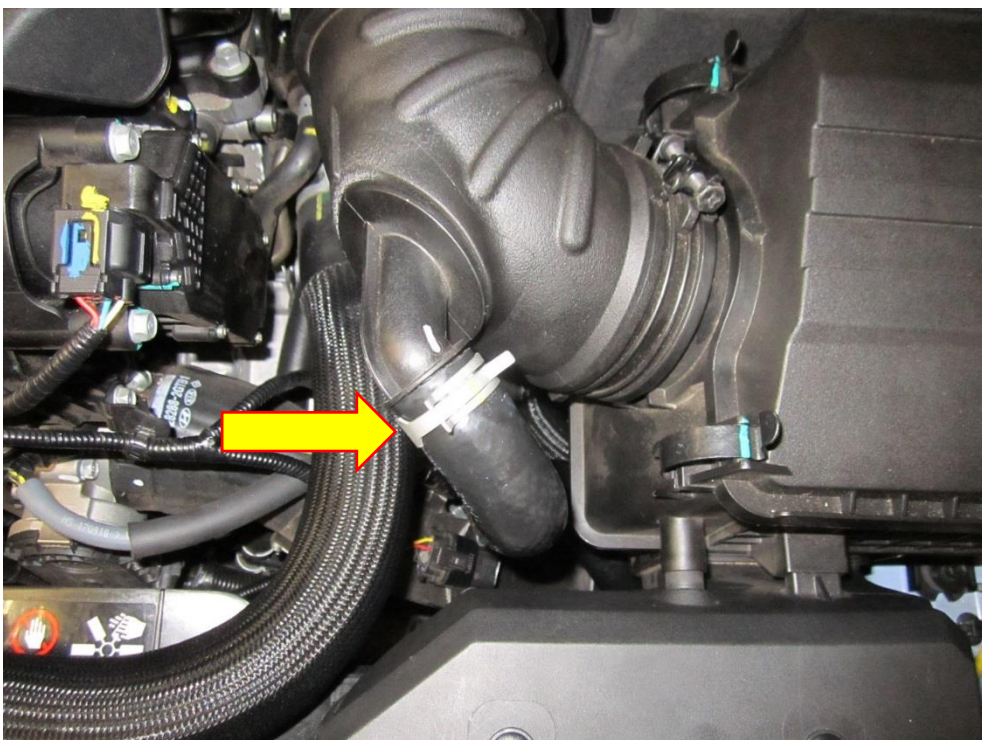
2. Next you need to remove the two fasteners that hold the air scoop to the front of the airbox. To do this simply push the pin in the centre of the fastener inwards, then prise up the fastener with a flat blade screwdriver/trim removal tool.



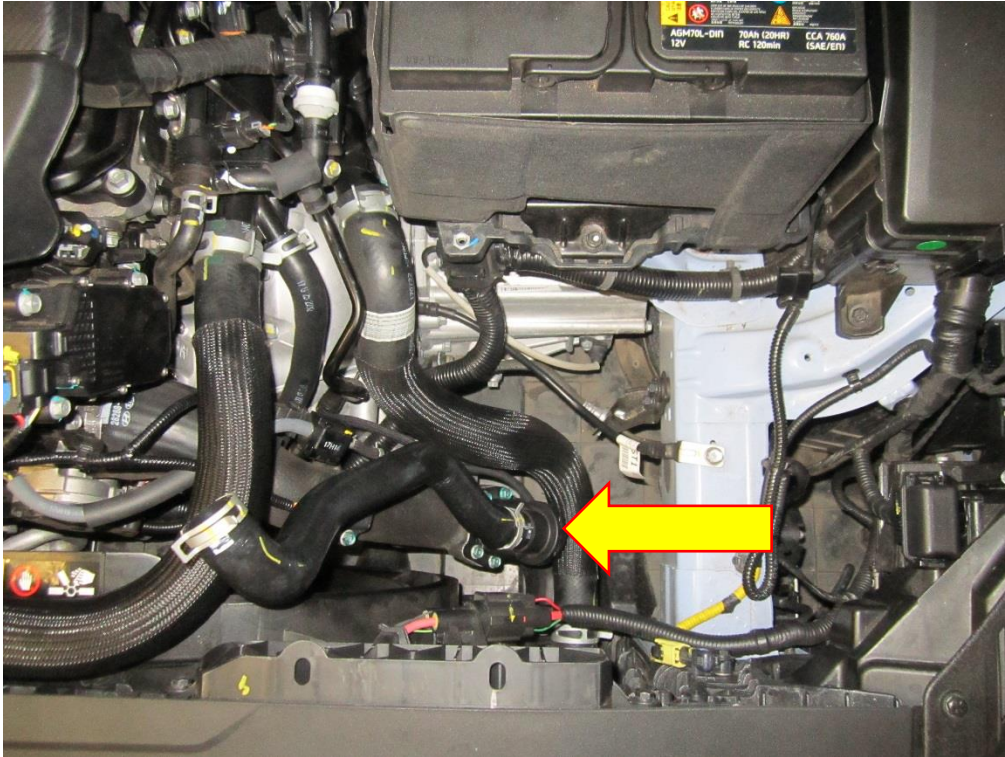
3. There is a 10mm nut on the hose clamp holding the airbox to the intake pipe, this needs to be undone so that the air box can now be removed from the engine bay.



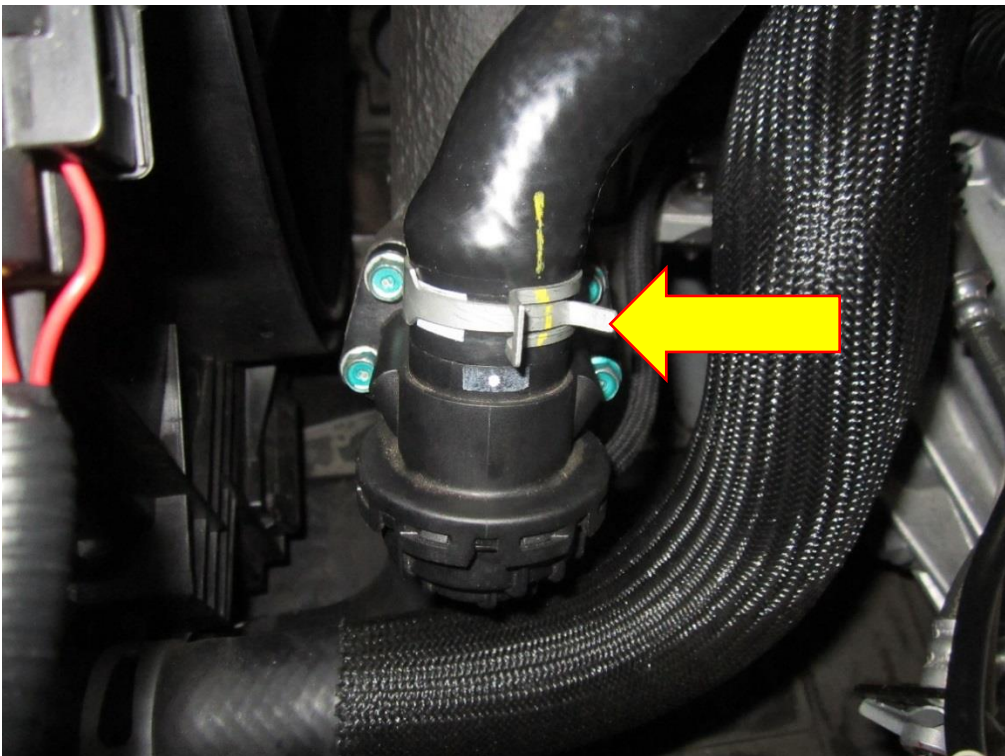
4. Please note if you will be using the recirculation mode of the valve, you can skip this step. The spring clip holding the diverter valve return pipe to the intake hose needs to be removed. Using a spring clip removal tool or long nose pliers compress the spring clip so that you can slide it down the hose and remove from situ.



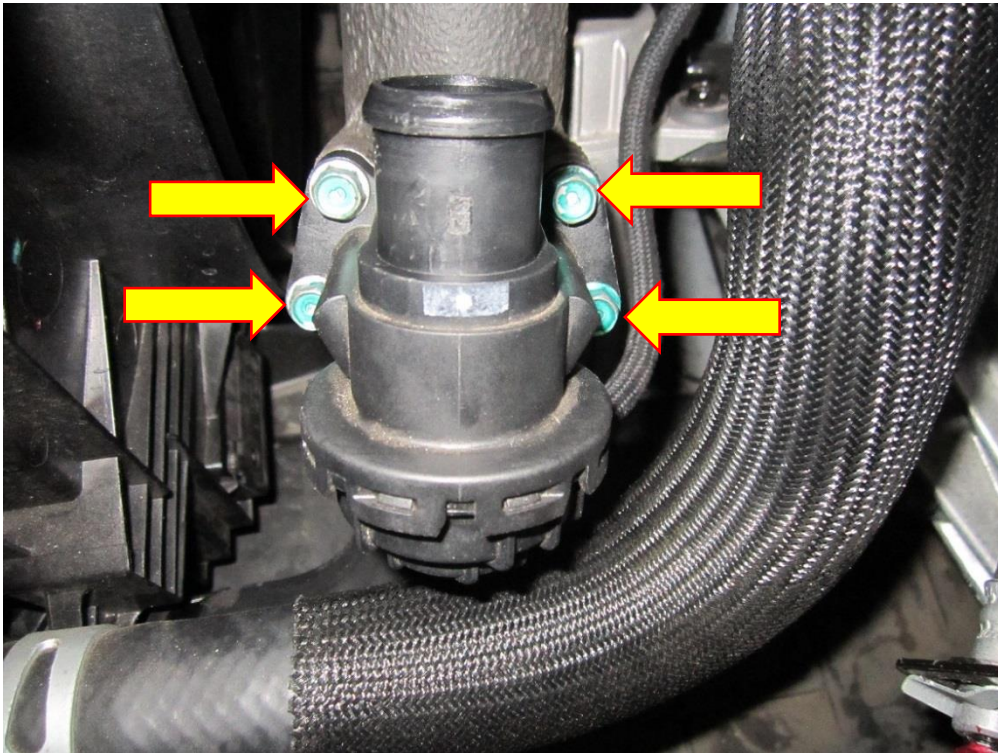
5. Now you will be able to locate the original diverter valve



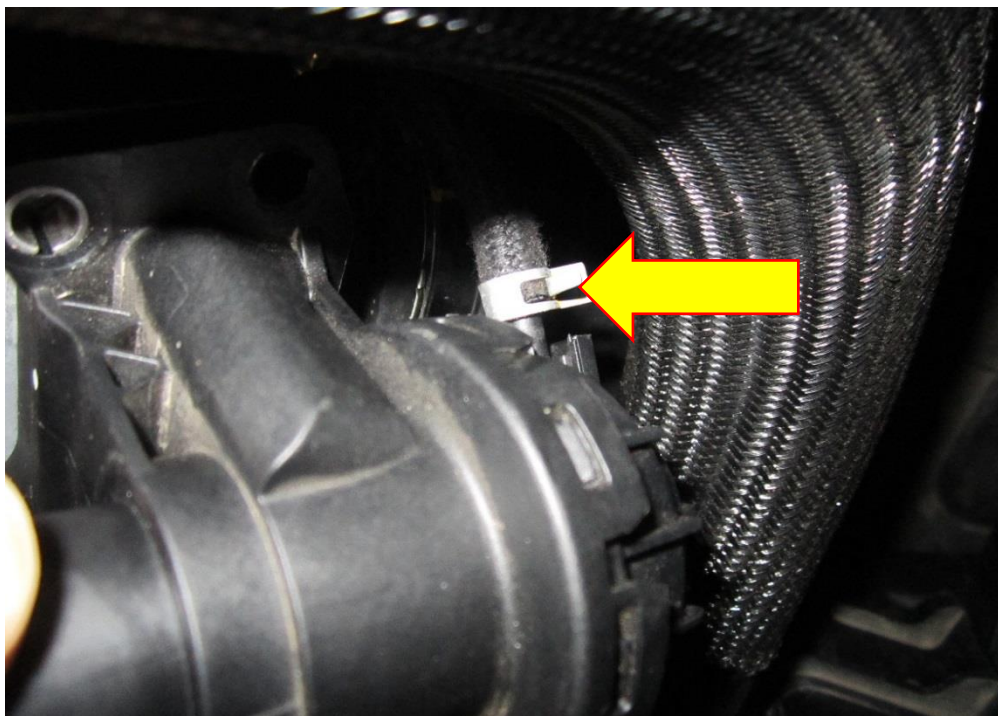
6. Remove the other end of the diverter valve hose, using a spring clip removal tool or long nose pliers compress the spring clip so that you can slide it down the hose and remove from situ.



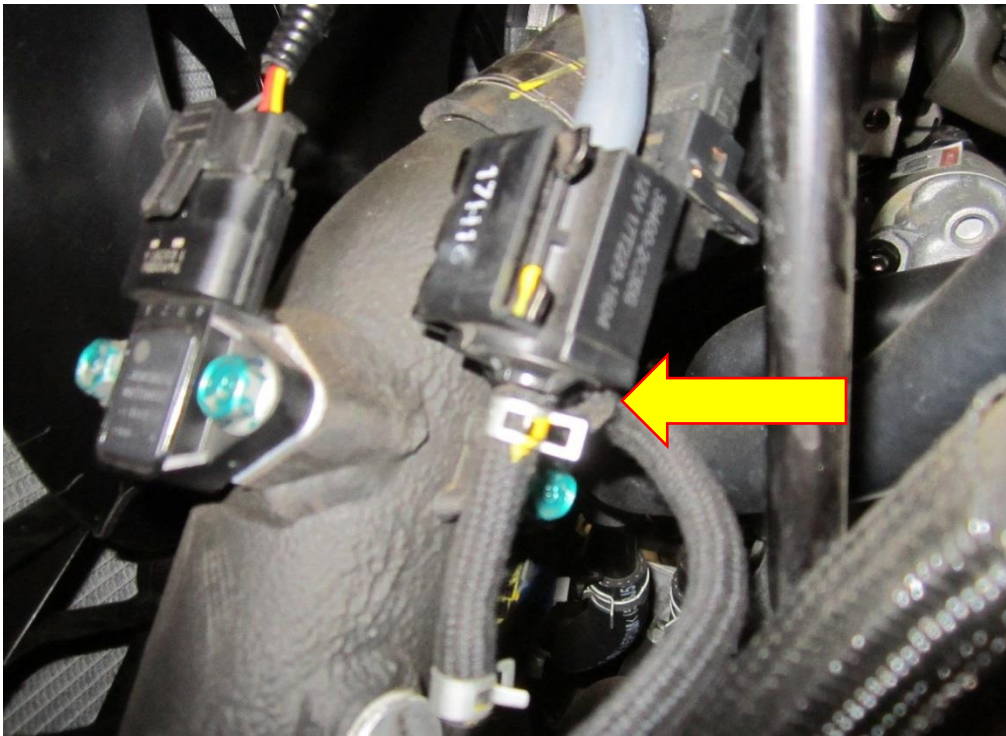
7. There are four hex head bolts holding the OEM diverter valve to the car, Remove all these using a 10mm socket and ratchet.



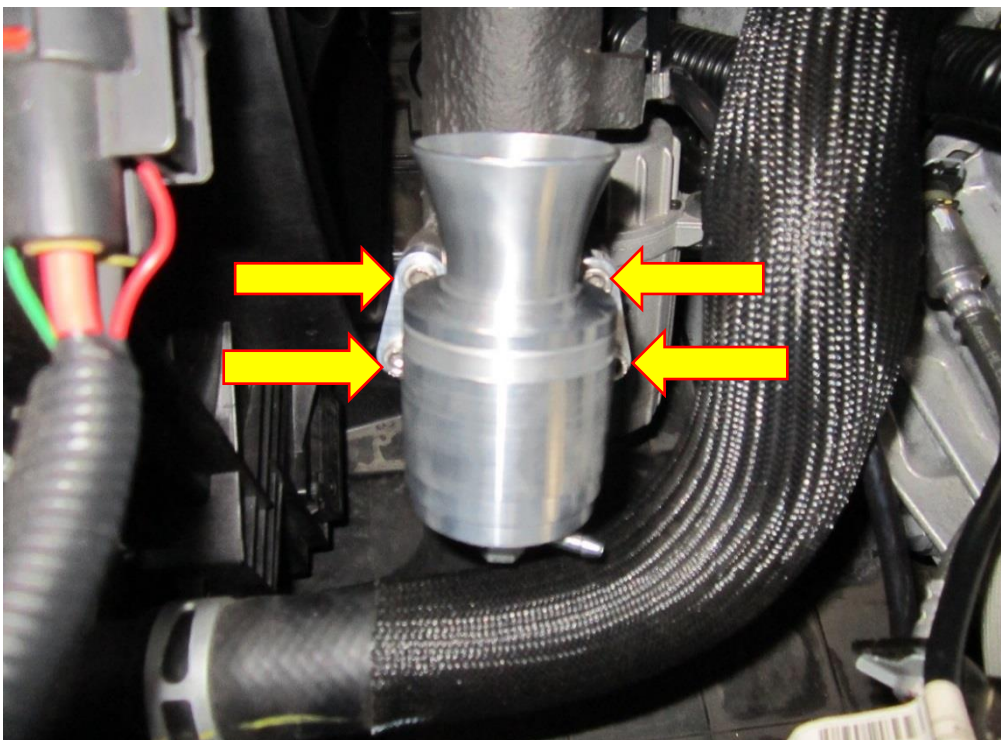
8. With the bolts removed you can now access the vacuum hose at the back of the diverter valve, this is held in place with a spring hose clip. Using long nose pliers compress the spring hose clip and move it down the hose. You should now be able to remove the vacuum hose from the diverter valve.



9. Follow the vacuum hose up to the boost solenoid and remove from situ. This hose is also attached with a spring clip, once loosened remove the vacuum hose completely from the car.



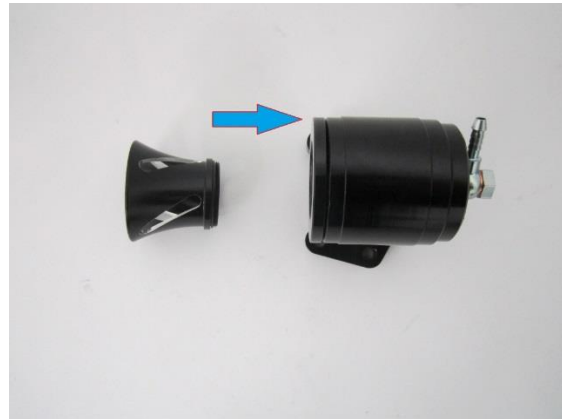
10. With the old valve removed, you can now fit the new Forge valve to the car. Using the four M6 Allen cap head bolts provided screw the valve into place. Ensuring the O-ring is in position on the mounting face.



At this point you can decide to use the valve in recirculation or atmospheric mode. To do this simply screw on the chosen adaptor clockwise.

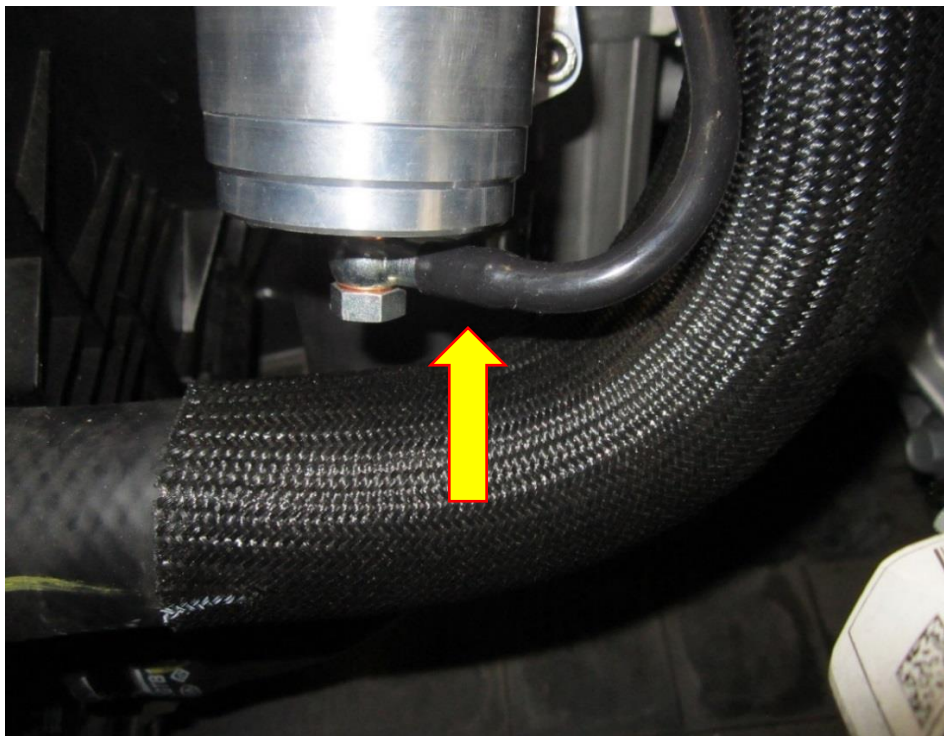


**Recirculation Fitment**

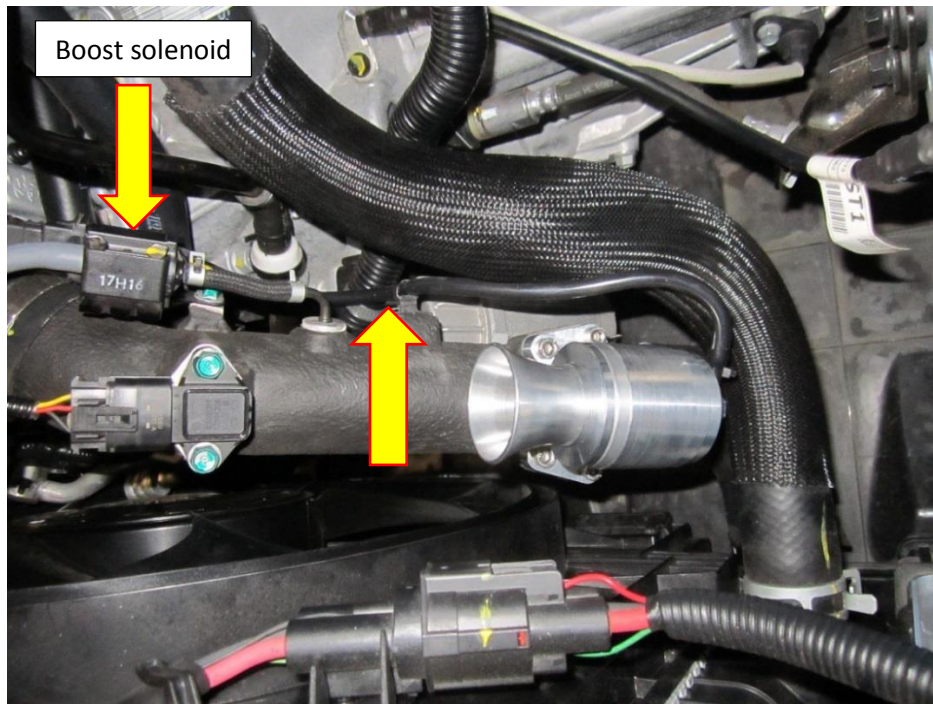


**Atmospheric Fitment**

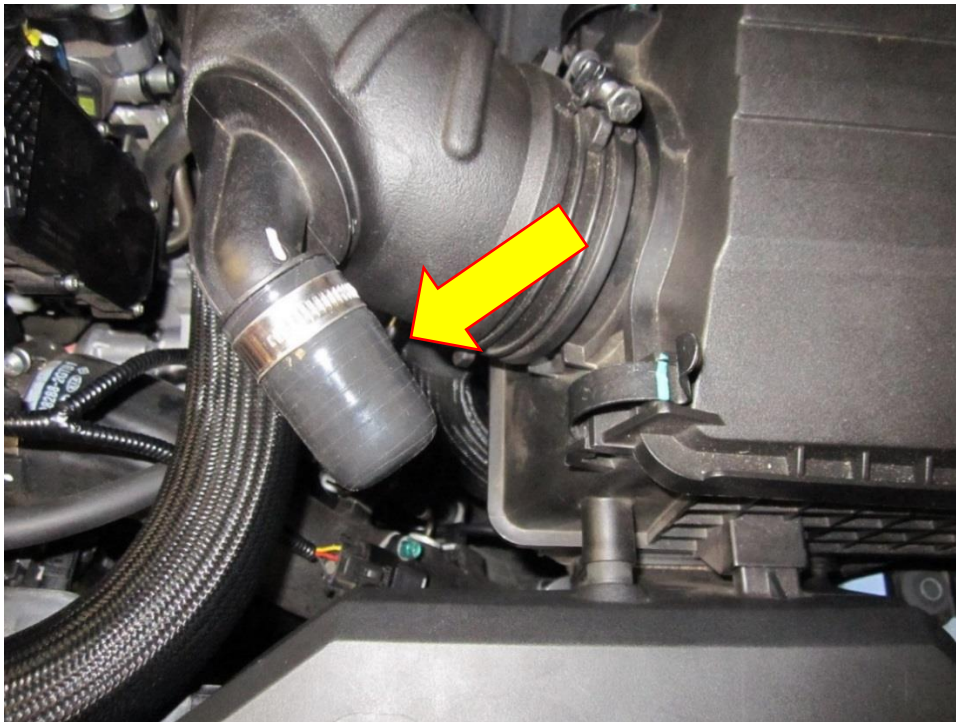
11. Connect the new silicone vacuum hose supplied with the kit to the vacuum connector on the diverter valve. Use the cable ties provided with the kit to secure the hose in position.



12. Run the new vacuum hose in the same position as the old hose up to the boost solenoid and fit it to where the old hose was located. Use the cable ties supplied to secure it to the boost solenoid. **If you have opted for the valve to work in a recirculation mode then you can refit the diverter valve hose in Step 6.**



13. Now re-fit the air box by following steps 1,2 and 3 in reverse order.  
14. **For atmospheric mode only**, fit the silicone blank off hose where the OEM diverter valve outlet hose was fitted. Simply slide it on and clamp it down using the hose clamp provided.



15. The installation of your new Forge FMDV20 is now complete.



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