

Increased Emissions Warning

EGR Valve Cleaning

This is a step by step guide to cleaning the EGR Valve on your E60/E61 Diesel. This should be the same for all diesel models (maybe not the 535 Twin Turbo, not sure)

This can be done as part of your maintenance if you want.

These are the error displays.



The EGR Valve is located here, under the engine cover.

To remove the engine cover there are 5 Allen/Hex bolts to undo, you may have to remove the oil filler cap. Lift at the front and slide forwards, then remove.



You need to remove the jubilee/hose clip.

Warning. Let the engine cool down, it gets very hot.



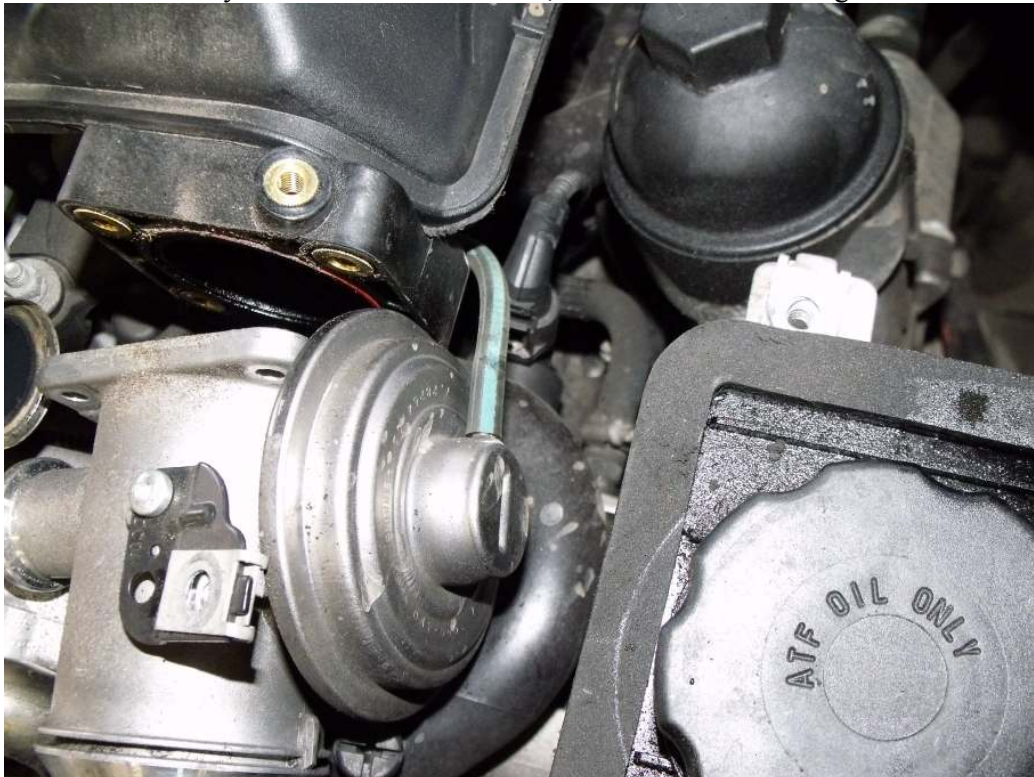
Then remove the intake/boost pipe from the EGR. Flat screwdriver under the clip and lever up, then slide the pipe off the EGR. The pipe is flexible and can be pushed out the way.



Then remove the 4 Allen/Hex bolt holding the EGR to the intake Manifold. 2 at the top and 2 on the bottom. The 2 at the bottom can be difficult, try not to drop them.



Finally remove the vacuum hose, be careful not to damage it.



Now look at the beauty that is your EGR Valve. Full of Carbon (Un-burnt Diesel and oil) that is pumped back into the engine for re-burning. It is likely that your intake manifold is also caked in this stuff; you can clean it if you want. As you can see from the pictures below, the build up of carbon on the inside of the valve. I've seen worse in my past BMW's.



Now you need to scrap all the carbon off, I used a flat head screw driver and a rag. I also used some Engine Degreaser and Brake/Carb Cleaner. I got most of the carbon off, don't worry if you don't get it all off. It took 5 years (70,000 Mile) to get like this.



Now all that needs to be done is to refit the EGR, just follow the removal instructions in reverse. The error should clear itself. No need to visit a Stealer. With my car the fault can back on the way home from the workshop after cleaning the EGR. The next morning the fault was gone and has never been back, currently I've put another 6000mile on her and still no fault.

You may need to get your car on a diagnostic computer to read the fault as it may not be the EGR. I had my read by an Indy (I know the guy there and got it done for free).

So total cost £0 (You may need to buy some degreaser £5)

BMW quoted me £348 to do this.

(£40 inspection, £186 New EGR Valve, 1 hours labour £122)

I know from past Diesel BMW that this is the same as the E46 320d & 330d. I would guess that most of the BMW diesel would have the same EGR valve, along with the Rover and Land/Range Rover that use the BMW engine.



E60 530d SE 2004