3.6 TDV8 EGR Blanking Kit

by x8rltd

Please note that we performed this installation on a Range Rover Sport, the process will vary between the different engines as they are all installed in slightly different ways.

SYMPTOMS OF FAULT

Is your Land Rover Discovery or Range Rover Sport feeling sluggish? Short of power, slow off the mark?Suffering poor fuel consumption (MPG), turbo lag, rough idle, poor torque- slow engine pick up? Smokey exhaust?

THE FAULT

Carbon built up in your vehicles EGR system is restricting air flow.

Carbon rich recirculated exhaust gasses enter the intake manifold, over time Carbon / Coke deposits gather in the EGR valve and manifold blocking air flow. Resulting in reduced fuel economy and vehicle performance. Common symptoms of failure include; rough engine running, decreased throttle response and loss of power / torque.

THE SOLUTION

Fit our EGR blanking kit and allow your engine to breathe once more.

Eliminate the risk of future carbon build ups in the EGR system. Improved torque with smoother pick up and improved fuel consumption, reduced turbo lag and less nasty exhaust fumes. Our blanking plugs are fitted with Viton O-rings suited to the fitting environment.

Supplies:

For this job, you will need a T30 torx driver to be able to remove the screws that hold the EGR pipe on.

It is advisable to have an extended magnet that you can use to position and remove the EGR blanks and bolts, this is not needed but does make the process easier.

Step 1: Disconnect the Battery

Before you begin any kind of work on the vehicle it is important to disconnect the battery to avoid risk of electrocution.

It is important to disconnect the negative terminal first (the black one) and then disconnect the positive terminal (the red one). and tuck these cables away so that they cannot spring back and reconnect the battery.

Step 2: Remove the Engine Cover

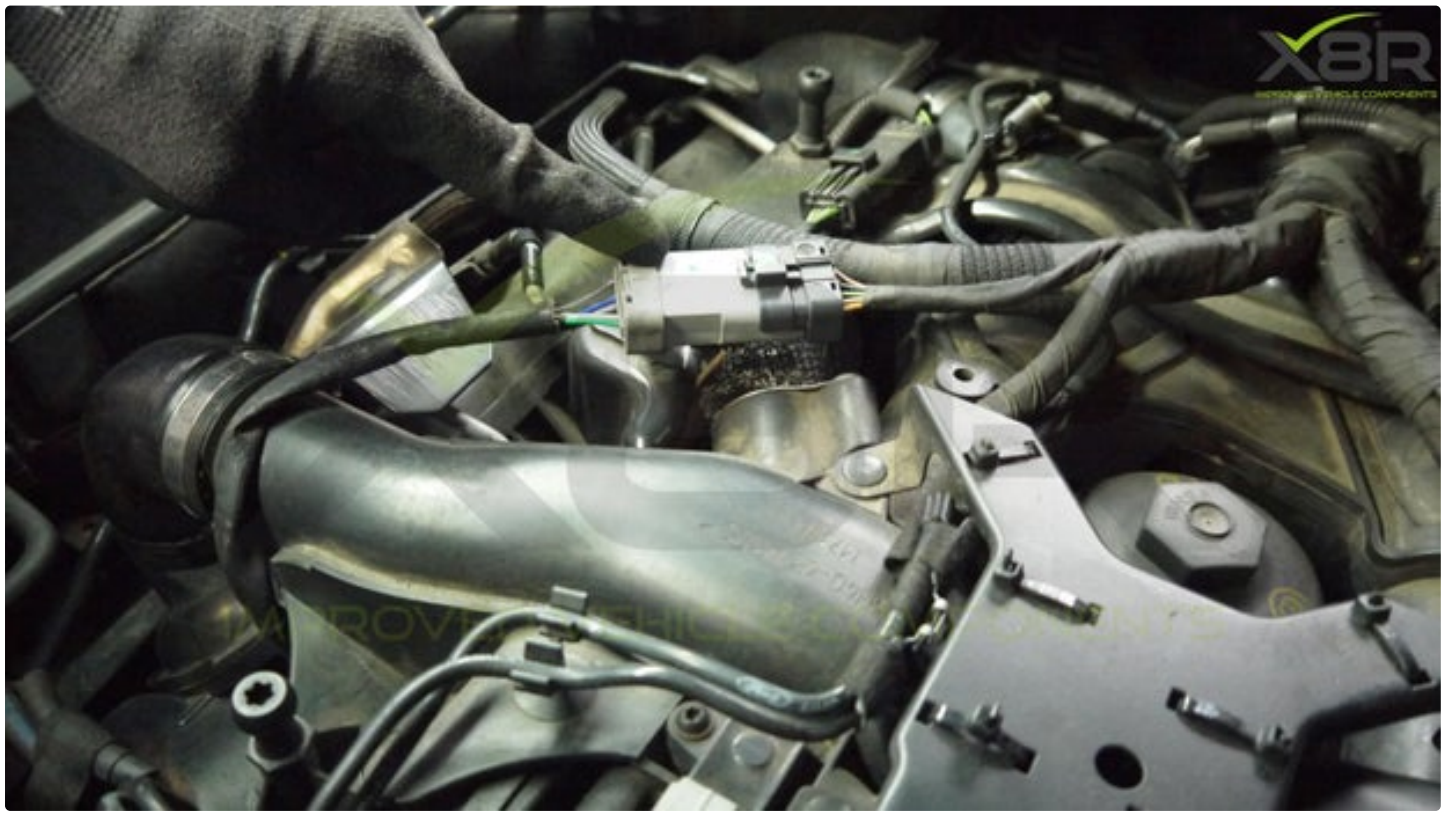
In this step, you will need to remove the engine cover in order to gain access and perform the job.

To remove the engine cover simply pull up on each corner of the cover so that it disconnects from the rubber plugs.

Step 3: Create Space - Electrical Connections

You will now need to create some space in order to gain access to the EGR pipes on either side of the intake manifold.

This will involve unplugging various electrical connections around the top of the engine in order to gain access to the EGR bolts, different vehicles will have different electrical connections.



Step 4: Create Space - Hardware

You will need to remove two 10mm nuts from the pipe harness, this will allow the section to move much more freely.

There is another 8mm bolt that secures a P-clamp to the top of part of the manifold, if you remove this then you will be able to maneuver some of the pipes out of the way.

Once the pipes have been moved slightly, you will be able to access the 8mm bolts that secure a black metal bracket to the intake manifold, you will need to remove these to allow the bracket to move more freely to gain access to the EGR bolts.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Step 5: Remove the Two Bolts From the Top of the EGR Hose

There are two bolts that fasten the EGR hose into the intake manifold, these will be T30 torx bolts and will need to be removed in order to get the EGR hose out.

Be careful not to drop any of these bolts when removing the parts as they may become lost within the intake or exhaust manifold, this can potentially get stuck and cause damage so take extra care not to drop anything in these voids.

Step 6: Remove the Two Bolts From the Bottom of the EGR Hose

The next two bolts will need to be removed from their housings, when these come loose the hose may move, be prepared for this as you do not want to slip and allow the bolt to fall into the exhaust manifold, these bolts will likely be 8mm bolts.

In order to be able to undo these bolts you will likely need to use a socket extension or a swivel joint in order to remove the bolts.

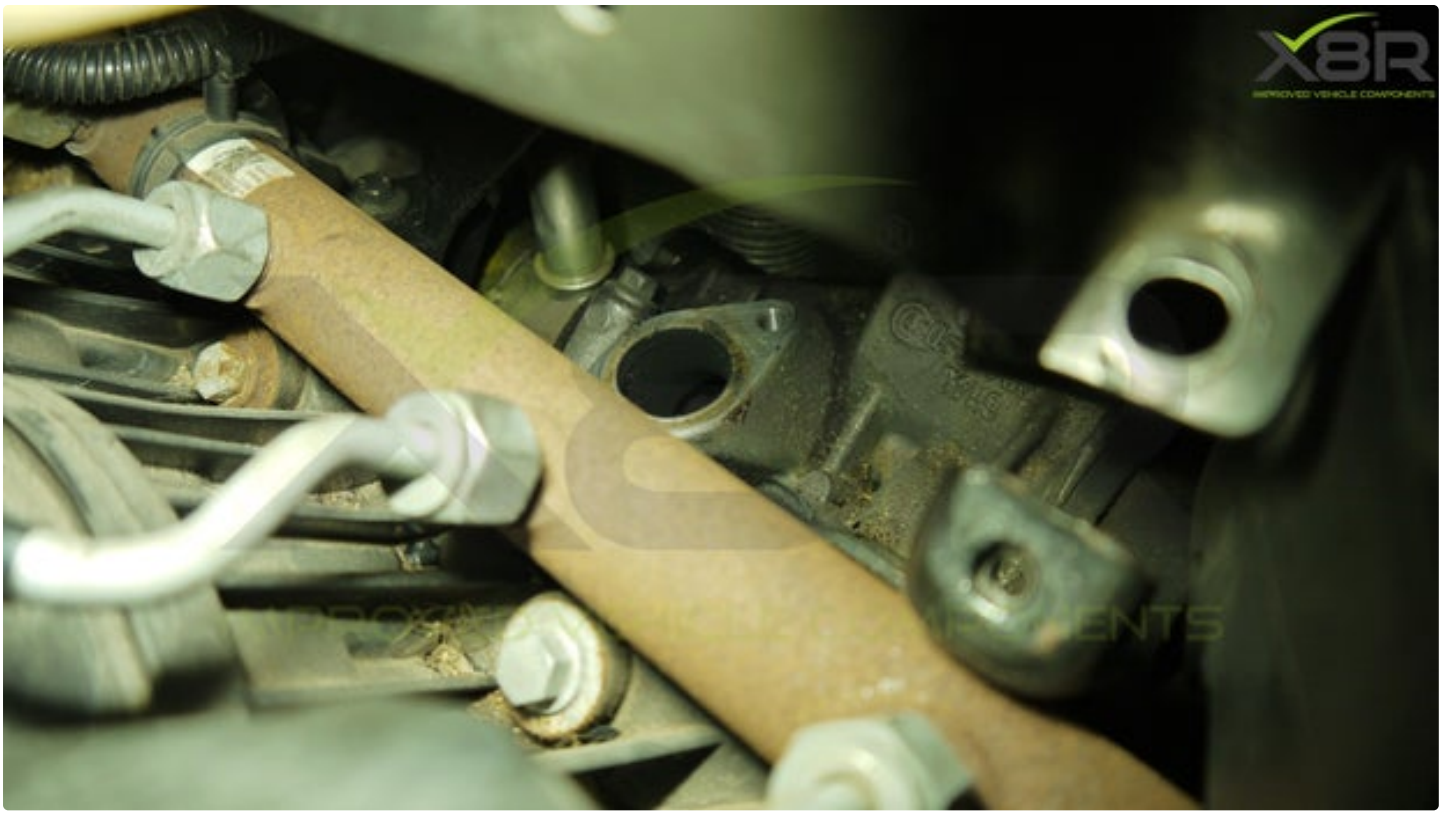
Step 7: Prize Out the EGR Hose

The next step is to now gently prize out the EGR hose, begin at the upper section, being careful not to apply too much pressure onto the plastic manifold cover, make sure that the large O-ring is not left inside of the intake manifold, this could cause a problem later on if left inside.

The bottom section should be easy to remove as does not have any section inserted into the void.

There is a flat gasket that should come away with the lower flange, but this shouldn't be at risk of falling off as it is formed around the flange.

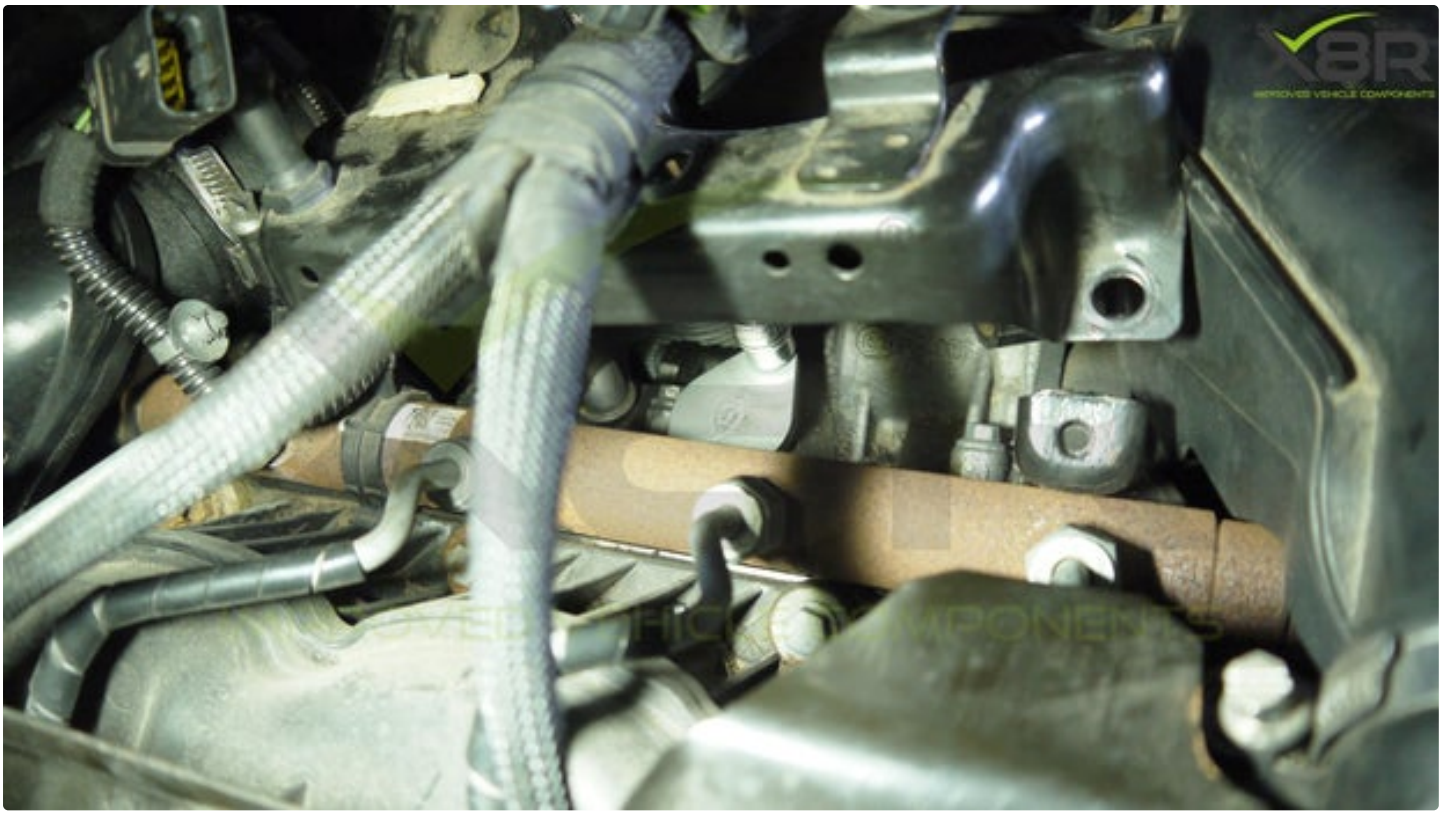
Once you have both of the connections off, it is a good idea to quickly spray some brake cleaner / parts cleaner on the sealing surfaces and give them a wipe just to prepare them for the new seals.



Step 8: Install the Exhaust Manifold Blank

The new X8R blanks will contain gaskets, o-rings and the new bolts.

Start with the exhaust manifold opening, this is the lower one, the blank for this is flat, with a metal gasket that will be able to retain the screws, when installing the blank, gently tighten each of the screws evenly to be able to ensure that the gasket is evenly pressed to create a good seal.



Step 9: Install the Intake Manifold Blank

Now that the exhaust manifold is completed, you are now able to install the intake manifold. The intake manifold is slightly easier to install, when installing these make sure that the o-ring does not fall off of the blank, this is important for the blank to create an effective seal.

Step 10: Complete the Installation

The next step is to replace all of the previously removed parts in the engine bay.

This completes the installation. If you need any further guidance on this install or would like to purchase the parts shown please call us on +44 01843 446643 or email us at sales@x8r.co.uk. Please also check out our instruction guide on YouTube. www.x8r.co.uk Installation is carried out at installers risk, if unsure please contact us or a professional, X8R Ltd cannot be held responsible for any adverse result of installing this product or any injuries caused by install, if in doubt ask a professional.