

Lubro Moly Diesel Purge How-To
By: Ryan Bobel
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Lubro Moly makes excellent products, one of which is their Diesel Purge diesel injector cleaner. Lubro Moly designed the product to be run straight, not added to the fuel tank, as are other diesel fuel conditioners. The Diesel Purge container recommends diverting the flow of diesel fuel so that the engine consumes only the Diesel Purge. On the TDI engine this can prove problematic as the fuel lines are fairly short and not easily manipulated.

The system described below has the advantage of being inexpensive, easy to construct and does not require an assistant. Parts can be purchased at any automotive care center and home improvement center; additionally, the hose/filter combination you will make can be stored and reused many times.

Parts list:

- 1 can of Lubro Moly Diesel Purge
- 1 10 foot roll of 5/16" ID plastic tubing
- 1 Fram (or equivalent) inline fuel filter
- 1 package of straight 5/16" ID vacuum fittings
- 1 20 oz. Plastic bottle

Here is what you will make:

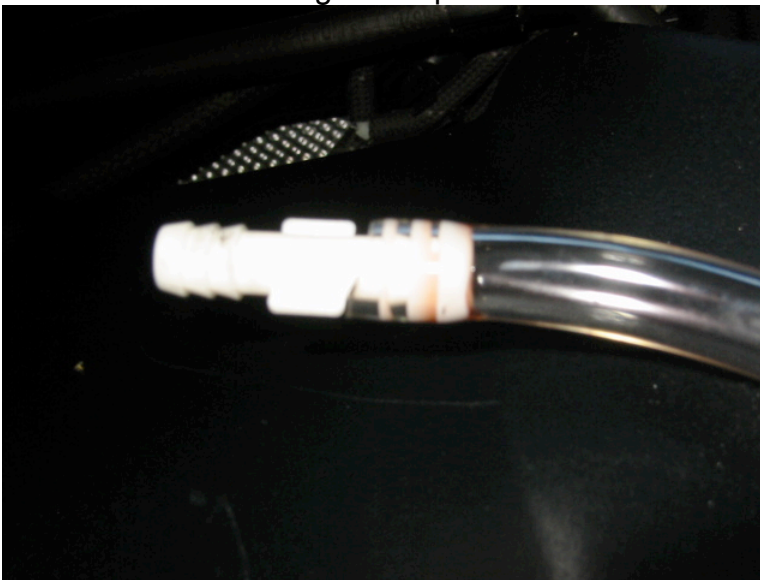


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-inline filter closeup



-5/16" ID vacuum fitting closeup



Procedure:

1. Cut 3 lengths of plastic tubing: one 8 inches long, one 22 inches long and another 12 inches long.
2. Connect your inline fuel filter to the 8" and 12" pieces of tubing.
3. Into the open end of the 8" piece of tubing, insert a vacuum fitting
4. Insert into the 22" piece of tubing the other vacuum fitting.
5. Insert the open ends of the tubing into your plastic bottle; push bottle into open slot between your washer fluid reservoir and the intake tube. See picture below:

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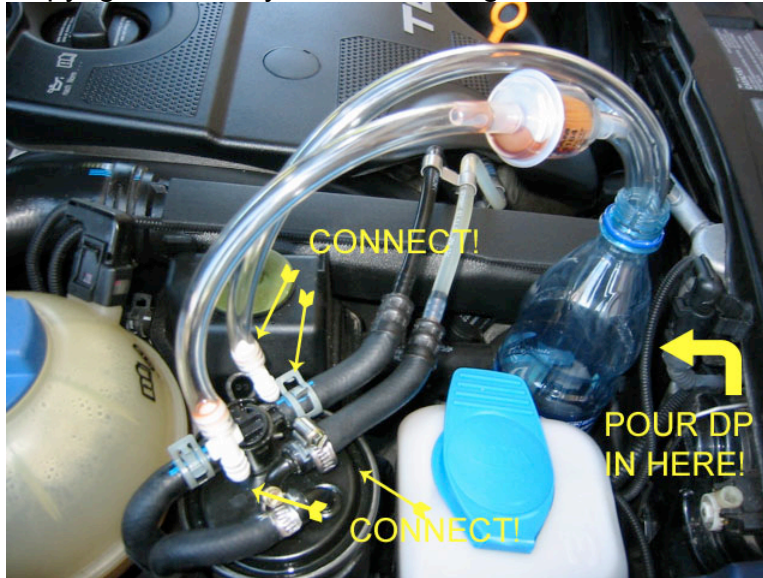


6. Make sure your plastic lines will be long enough to connect to the fuel lines without kinking.
7. If the lines are sufficiently long, remove the bottle and the lines from your engine bay, fill it with the Diesel Purge, put the lines back in and reinsert the bottle in the engine bay.
8. It may be helpful to 'prime' the inline filter so as to minimize the amount of air the injection pump will have to ingest. The pump can deal with a fair amount of air so don't be too concerned.
9. Remove the small clamp securing the fuel line running from the fuel filter to the injection pump by working the clamp off of the line. It may help to slide the line off the filter nipple at the same time – don't remove the line from the filter just yet.
10. With your thumb over the clear plastic line to the Diesel Purge (the line with the filter on it) to hold the 'prime,' remove the fuel supply line from the filter and connect it to the clear plastic supply line.
11. Remove the fuel return line from the injection pump to the thermostatic 'T' on the fuel filter and connect it to the other clear plastic line via the vacuum fitting. See picture:

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12. Make sure all the fittings are secure.
13. One advantage of this system is that when you are in your car the clear plastic supply and return lines are clearly visible under the open hood. This way you can easily see if there is any air in the lines and, consequently, if you are running out of Diesel Purge.
14. Get in your car and start it up.
15. Check your setup. The fuel color will turn from (whatever color your diesel is) to red.
16. If everything is OK, get back in your car and rev the engine. Rev the engine throughout its entire range, from idle to redline. Hold the engine at various speeds, i.e., at 2k, 3k, 4k, or anywhere in between.
17. Exit your car to periodically check the level of Diesel Purge remaining. It should take anywhere from 10 to 15 minutes for your car to consume all the Diesel Purge.
18. The Diesel Purge will get hot as it circulates through the system. As it gets hotter it will cause the plastic lines to get softer, the result being the ingestion of tiny air bubbles in the lines. This should not cause any problems.
19. When you have about an inch or so of Diesel Purge left, shut down the engine and reconnect your fuel lines.
20. Check your work reconnecting the lines; if all is well, start your car and check for leaks.
21. As always, work in a well-ventilated area – your car will need to cool itself and you will need to breathe.
22. All done, go relax.