

# DDMWorks



Automotive Performance Specialists

## LNF Fuel Filter Kit



This fuel filter kit installs inline to clean the fuel going to the engine. This is a great upgrade to protect your engine.

Installation time of the fuel filter kit depends on you and your mechanical skills. It is suggested that you read through the directions a few times to familiarize yourself with the components of the kit, and your car

If you are pretty handy with tools the intake can be installed in 30 minute, however we suggest that you schedule at least a couple of hours for the installation.

If you have any questions during installation you can contact us at (864) 907-6004 or email us at [Tech@ddmworks.com](mailto:Tech@ddmworks.com)

### TOOLS NEEDED

10mm socket and socket wrench

Needle nose pliers

GM Fuel Disconnect tool

### PACKING LIST

QTY.	Part Description
1	Fuel Filter
1	AN-6 to Fuel Injector Line
1	Fuel Injector Line to AN-6
2	AN-6 Hose End
1	10 in. Hose
Hardware bag	
1	Coolant Hose Clamp
1	Plastic retainer clip

# DDMWorks



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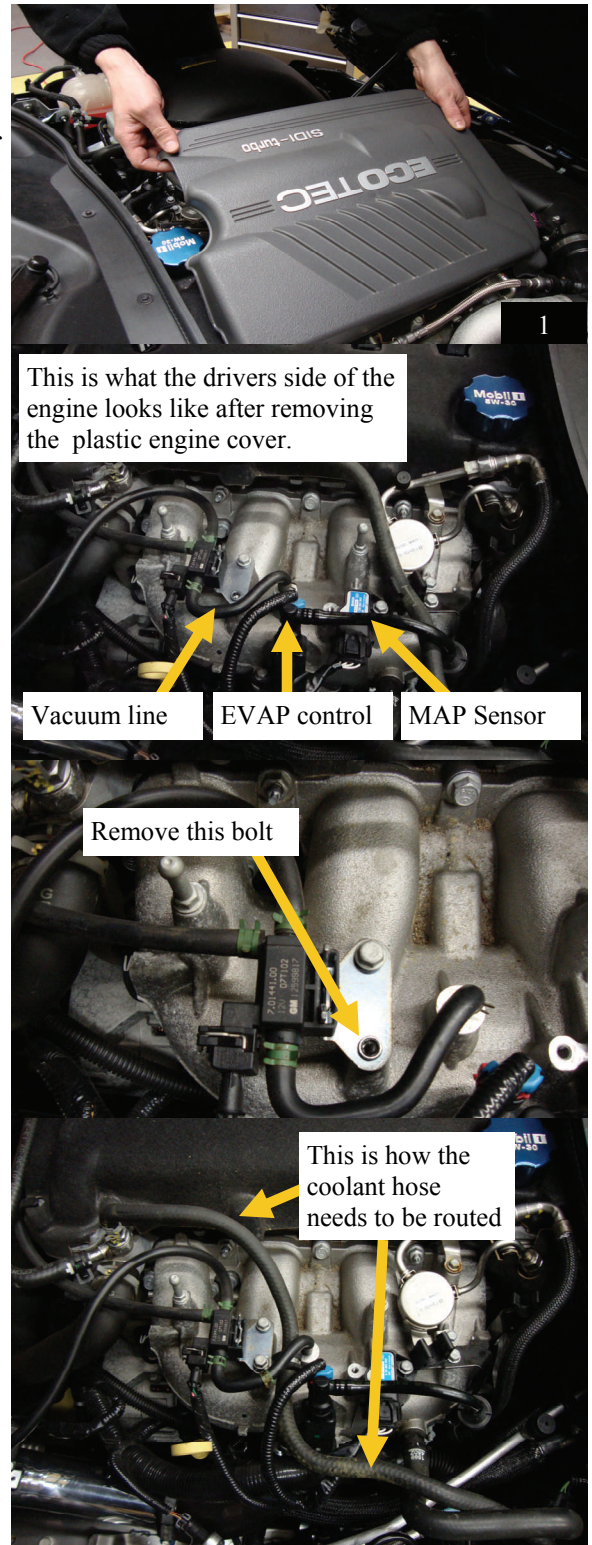
Rev. 10-27-11 im

## Before Starting

Before getting started on installing the fuel filter kit onto the car there are a couple things that need to be done. First, go ahead and disconnect the negative terminal from the battery. Also, make sure you are in a well ventilated area away from open flames and open the gas cap to relieve pressure in the fuel system. Now that those are done, it is time to start installing the fuel filter kit on the car.

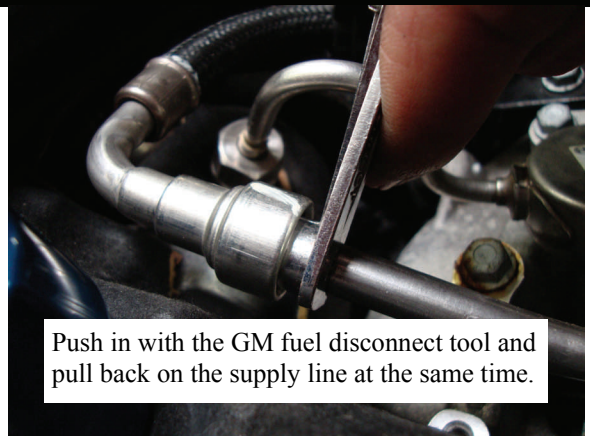
## Pre-installation prep

1. First, remove the plastic cover if you have not already done so.
2. Now we need to remove the harness clips going to the EVAP control (red/blue) . The sensor is located on the drivers side of the engine. To remove the clip, lift up on the red part of the clip and this will release the plug and allow you to pull up on the plug.
3. Now we need to unplug the MAP sensor which is located closer to the firewall on the engine, with a solid black plug. Squeeze the end of the plug and pull on the connector.
4. Now there are 2 hoses to disconnect. The first one is a vacuum line that goes from the manifold to a small black box. There is a small hose clamp holding this hose on. Using a small pair of needle nose pliers, squeeze the hose clamp and move it back. Now pull up on the hose to remove it from the manifold.
5. Next the EVAP tube needs to be removed. At the base of this hard black line is the connector, there is a small black tab you push back on to release it. Push back on this tab and lift up on the hose at the same time to remove it from the manifold.
6. Now everything is out of the way, use a 10mm socket, and remove the bolt shown in the picture to the right by the vacuum relay.
7. The Coolant hose that goes from the front of the motor to the reservoir is going to be moved. It is held in place by a black plastic clip. Pull it out of the clip, and move the hose forward next to the location where you just removed the bolt. Using the supplied clamp, we are going to secure the hose in place. Put the clamp over the coolant line, and then bring both tabs back together, put the bolt you removed through the hole in the clamp. Now secure the clamp in place by using the bolt you removed.
8. Now you are ready to install the Fuel filter.



## Installing the Fuel Filter

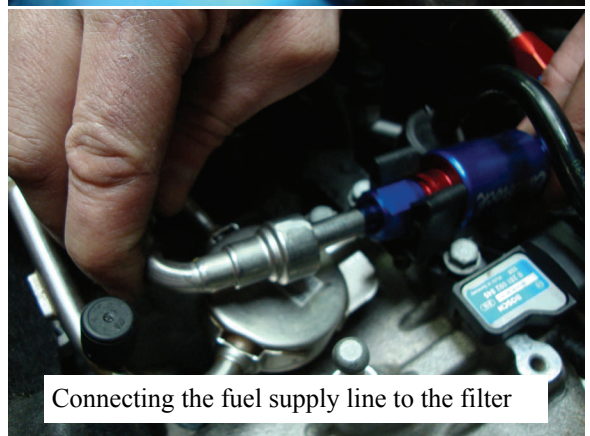
1. To install the fuel filter, we have to first reroute the fuel line closest to the valve cover. First, we need to remove the metal clip securing the hose to the line. To do this use the GM Disconnect tool. The tool will close down over the fuel line and then push into the disconnect on the stock feed line. While pushing the disconnect tool into the quick release, pull on the quick release and it will come off. Be careful as the fuel line supply may still have some pressure in it and some fuel may come out when doing this, make sure to protect your eyes.
2. Once you have the stock fuel line feed disconnected, it is going to run through the hoop made by the hard fuel line going to the high pressure fuel pump. The picture to the right shows the routing of the fuel hose.
3. Now we are going to install the new fuel line with the filter attached. There is a small plastic clip that needs to be placed over the hard line we just disconnected. This plastic clip is shipped in the fuel filter kit. Find the plastic retainer clip and place it over the tube so that it looks like the picture to the right. Once that clip is in place, slide the fitting over the line and plastic clip until you here it click.
4. Using the firewall as a guide, route the new line around so that the fuel filter rests in the old coolant hose clip. The open end of the line should be pointing at the valve cover.
5. Its now time to complete the loop. Grab the end of the fuel line we disconnected in step 1 and slide it onto the fitting coming from the new fuel filter until it clicks into place. Check to make sure that all of the new fuel line connections are tight and secure.
6. Next, we need to reconnect the clips for the sensors and the EVAP hose. Make sure that everything is in place and that all the fittings are tightened, then reconnect the negative battery terminal.
7. Now it is time to start the car to make sure everything is installed properly. It is best to have a friend help you with this. Turn the key and start the engine, it may take a few extra moments to start, since you will have to fill the new filter with fuel. Once the car starts just makes sure there are not any leaks at any of the junctions with the fuel filter. (If so shut off the engine and tighten any leaking connections.)
8. Once everything looks good, replace the plastic engine cover and you are finished.



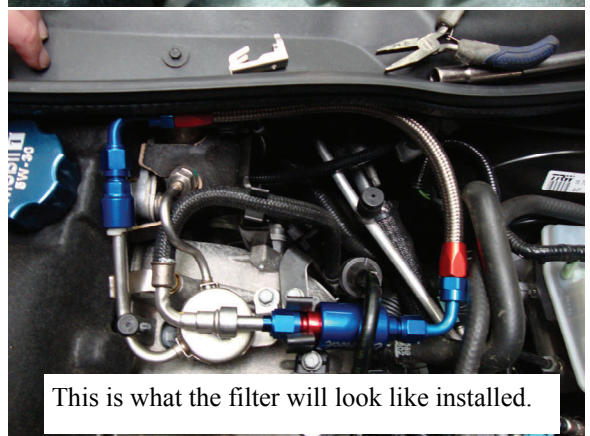
Push in with the GM fuel disconnect tool and pull back on the supply line at the same time.



This is the plastic retainer clip that you need to slide on BEFORE installing the filter.



Connecting the fuel supply line to the filter



This is what the filter will look like installed.

Congratulations! You have successfully installed your new DDMWorks fuel filter.