

Fuel Systems

The fuel system is responsible for supplying your engine the diesel or gasoline it needs to be able to run. If whatever of the different components in the fuel system break down, your engine will not run correctly. There are the main parts of the fuel system listed below:

Fuel Tank: The fuel tank is a holding cell for your fuel. When filling up at a gas station, the fuel travels down the gas hose and into your tank. In the tank there is a sending unit. This is what tells the gas gauge how much gas is within the tank.

Fuel Pump: In newer cars, the majority contain fuel pumps usually positioned inside the fuel tank. A lot of the older automobiles will connect the fuel pump to the engine or positioned on the frame next to the tank and engine. If the pump is in the tank or on the frame rail, then it is electric and operates with electricity from your cars' battery, whereas fuel pumps that are connected to the engine utilize the motion of the engine so as to pump the fuel.

Fuel Filter: For performance and overall engine life, clean fuel is vital. The fuel injector is made up of small holes that clog with no trouble. Filtering the fuel is the only way this could be prevented. Filters could be found either after or before the fuel pump and in various instances both places.

Fuel Injectors: Most domestic cars after the year 1986, together with earlier foreign cars came from the factory with fuel injection. In place of a carburetor to perform the task of mixing the air and the fuel, a computer controls when the fuel injectors open in order to let fuel into the engine. This has resulted in better fuel economy and lower emissions overall. The fuel injector is really a small electric valve that closes opens with an electric signal. By injecting the fuel close to the cylinder head, the fuel stays atomized, or in small particles, and can burn better when ignited by the spark plug.

Carburetors: Carburetors have the job of taking the fuel and mixing it with the air without any intervention from a computer. Carburetors require repeated tuning and rebuilding though they are easy to work. This is among the main reasons the newer vehicles on the market have done away with carburetors in favor of fuel injection.