Fuel Systems

The fuel system is responsible for providing your engine the gasoline or diesel it needs in order to function. If whatever of the separate parts in the fuel system break down, your engine will not function correctly. There are the major parts of the fuel system listed under:

Fuel Tank: The fuel tank holds the fuel. The fuel from the gas station pump, moves from the tank travels down the gas hose into your tank. Within the tank there is a sending unit. This is what tells the gas gauge the amount of gas is in the tank.

Fuel Pump: In newer cars, the majority contain fuel pumps normally positioned in the fuel tank. Many of the older automobiles would connect the fuel pump to the engine or placed on the frame next to the tank and engine. If the pump is within the tank or on the frame rail, therefore it is electric and functions with electricity from your cars' battery, whereas fuel pumps which are mounted to the engine make use of the motion of the engine to be able to pump the fuel.

Fuel Filter: For overall engine life and performance, clean fuel is very important. The fuel injector is made up of small holes that clog without problems. Filtering the fuel is the only way this could be prevented. Filters can be found either before or after the fuel pump and in various instances both places.

Fuel Injectors: Most domestic cars after 1986, along with earlier foreign cars came from the factory with fuel injection. Instead of a carburetor to do the task of mixing the air and the fuel, a computer controls when the fuel injectors open to let fuel into the engine. This has caused better fuel economy and lower emissions overall. The fuel injector is basically a tiny electric valve which closes opens with an electric signal. By injecting the fuel close to the cylinder head, the fuel stays atomized, or inside small particles, and is able to burn better when ignited by the spark plug.

Carburetors: Carburetors have the job of taking the fuel and mixing it with the air without whichever involvement from a computer. Carburetors require regular tuning and rebuilding even though they are easy to operate. This is one of the main reasons the newer vehicles on the market have done away with carburetors in favor of fuel injection.