

Fuel Systems

The fuel systems task is to provide your engine with the gasoline or diesel it needs in order to run. If any of the fuel system parts breaks down, your engine will not work correctly. There are the main parts of the fuel system listed under:

Fuel Tank: The fuel tank is a holding cell intended for your fuel. When filling up at a gas station, the fuel travels downward the gas hose and into your tank. Inside 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 normally located inside the fuel tank. Several of the older automobiles will connect the fuel pump to the engine or placed on the frame next to the tank and engine. If the pump is on the frame rail or inside the tank, then it is electric and runs with electricity from your cars' battery, whereas fuel pumps which are connected to the engine use the motion of the engine to be able to pump the fuel.

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

Fuel Injectors: Most domestic cars made after the year 1986, came from the factory with fuel injection. A computer control opens the fuel injectors so as to allow fuel into the engine, which replaced the carburetor who's task originally was to carry out the mixing of the fuel and air. This has caused lower emission overall and better fuel economy. The fuel injector is essentially a small electric valve which closes opens with an electric signal. By injecting the fuel close to the cylinder head, the fuel stays atomized, or within small particles, and can burn better when ignited by the spark plug.

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