

Fuel Systems

The fuel system is responsible for supplying your engine the gasoline or diesel it needs to be able to function. If any of the different parts in the fuel system break down, your engine would not function properly. There are the main components of the fuel system listed underneath:

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. Inside 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 most newer cars, the fuel pump is usually situated inside the fuel tank. Numerous older vehicles have the fuel pump connected to the engine or placed on the frame rail amid the tank and the 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 attached to the engine make use of the motion of the engine to be able to pump the fuel.

Fuel Filter: Clean fuel is very important for engine performance and overall engine life. Fuel injectors have tiny openings which can clog without problems. Filtering the fuel is the only way this can be prevented. Filters could be found either before or after the fuel pump and in some instances both places.

Fuel Injectors: The majority of domestic cars made after the year 1986, came from the factory with fuel injection. A computer control opens the fuel injectors to be able to allow fuel into the engine, that replaced the carburetor who's job initially was to perform 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 that opens closes with an electric signal. By injecting the fuel close to the cylinder head, the fuel stays atomized, or in tiny particles, and is able to burn better when ignited by the spark plug.

Carburetors: Carburetors have the task of taking the fuel and mixing it with the air without whatever intervention from a computer. Carburetors require regular rebuilding and retuning even if they are simple to operate. This is among the main reasons the newer vehicles existing on the market have done away with carburetors rather than fuel injection.