

## Automotive Engine Injection System

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### Automotive Engine Injection System

The injectors are one of two types, depending on the injection system. The first system uses continuous injection where the fuel is squirted into the inlet port all the time the engine is running. The injector simply acts as a spray nozzle to break up the fuel into a fine spray - it doesn't actually control the fuel flow.

### How a fuel injection system works | How a Car Works

Fuel injection is the introduction of fuel in an internal combustion engine, most commonly automotive engines, by the means of an injector. All diesel engines use fuel injection by design. Gas engines can use gasoline direct injection , where the fuel is directly delivered into the combustion chamber , or indirect injection where the fuel is mixed with air before the intake stroke .

### Fuel injection - Wikipedia

A typical electronic fuel injector. See more car engine pictures. In trying to keep up with emissions and fuel efficiency laws, the fuel system used in modern cars has changed a lot over the years. The 1990 Subaru Justy was the last car sold in the United States to have a carburetor; the following model year, the Justy had fuel injection.

### How Fuel Injection Systems Work - Auto | HowStuffWorks

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### Automotive Engine Injection System

The Fuel Injection System. A modern fuel injection system technically includes some sort of a sensing mechanism to determine the correct amounts of fuel that need to be sprayed into the engine's intake manifold. Another mechanism is needed to deliver or spray the 'computed' amount of fuel into each cylinder.

### How Does a Fuel Injector Work Inside the Engine ... - Car ...

Fuel Injection. JEGS has a large selection of high performance and replacement fuel injection parts to increase horsepower or just get you back on the road. Choose from larger fuel injectors, fuel rails, fuel injection controllers, mass air meters, bigger throttle bodies, complete fuel injection kits and more from leading fuel injection leaders: AEM, Accel, BBK, Edelbrock, FAST, FiTech, Ford Racing, Granatelli, Holley and more.

### Fuel Injection Systems & Performance Aftermarket Kits | JEGS

EFI/Electronic Fuel Injection Systems. Take a technological leap forward with a new electronic fuel injection system from Summit Racing. We carry many EFI systems—many self-tuning and self-learning—from the top players in engine performance, including MSD Ignition, Edelbrock, Holley, FAST, ACCEL, Chevrolet Performance, Quick Fuel, and more.

### EFI/Electronic Fuel Injection Systems at Summit Racing

Aftermarket fuel injection systems are simply fuel injection systems that can be added to your car's engine, usually for a few hundred dollars in parts cost and a few hours of labor. Fuel injection is the fuel supply method of choice on almost every gasoline-powered engine these days because they offer increased efficiency and horsepower due to ...

### 4 Top Aftermarket Fuel Injection Systems: Ratings and ...

A backup system can be used or a twin injection system will provide a 50% injection if one fails. Daily checks on your water injection system are prudent, and the more highly tuned the car the more vital this is. Always carry some spare water with you, check all delivery lines for chaffing or rubbing.

### Benefits and drawbacks of engine water injection systems

The answer is bringing fuel to the fire by two separate paths, and a few makers already are fitting their engines with both port and direct injection.

### Explained: Why Some Engines Have Both Port and Direct ...

Pumped air injection systems use a vane pump called the air pump, AIR pump, or colloquially "smog pump" turned by the engine via a belt or electric motor. The pump's air intake is filtered by a rotating screen or the vehicle air filter to exclude dirt particles large enough to damage the system.

### Secondary air injection - Wikipedia

Automobile engines produce unrelenting amounts of useless heat. An easy yet mechanically invasive way to remove much of the engines heat is through water/methanol injection. In conjunction with an aftermarket bolt-on and a fresh engine tune, these systems can improve the efficiency, power and longevity of gasoline engines.

### Homemade Water Injection for Auto Engines | It Still Runs

Bosch gasoline direct injection as the key to clean and economical engines: reduced fuel consumption and emissions, with enhanced driving dynamics thanks to direct high pressure injection of the ...

### EN | Bosch gasoline direct injection

Gasoline direct injection (GDI), also known as petrol direct injection (PDI), is a mixture formation system for internal combustion engines that run on gasoline (petrol), where fuel is injected into the combustion chamber. This is distinct from manifold fuel injection systems, which inject fuel into the intake manifold.. The use of GDI can help increase engine efficiency and specific power ...

### Gasoline direct injection - Wikipedia

An engine control unit ( ECU ), also commonly called an engine control module ( ECM ), is a type of electronic control unit that controls a series of actuators on an internal combustion engine to ensure optimal engine performance. It does this by reading values from a multitude of sensors within the engine bay, interpreting the data using multidimensional performance maps (called lookup tables ), and adjusting the engine actuators.

### Engine control unit - Wikipedia

Fuel injection systems. To solve this problem, fuel injection was created. Rather than letting the engine draw in gas via its own pressure alone, electronic fuel injection uses a fuel pressure regulator to keep a steady vacuum of pressure drawing fuel to fuel injectors that spray a mist of gas

into the combustion chambers.

### **How Does the Fuel System Work in a Modern Car ...**

Fuel delivery system Certain mechanical fuel injection systems also utilize a mechanical fuel pump, typically some early gasoline fuel injection systems. Many of them use a fuel pump essentially identical to the carbureted fuel system's. Some, however, use a vane type fuel pump mounted directly to the injection pump/fuel distributor assembly.

### **Fuel injection systems (gasoline)**

Emission control system, in automobiles, means employed to limit the discharge of noxious gases from the internal-combustion engine and other components. There are three main sources of these gases: the engine exhaust, the crankcase, and the fuel tank and carburetor.

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