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How Gasoline Engines Work

Gasoline engine, any of a class of

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internal-combustion engines that generate power by burning a volatile liquid fuel (gasoline or a gasoline mixture such as ethanol) with ignition initiated by an electric spark. Gasoline engines can be built to meet the requirements of practically any conceivable power-plant application, the most important being passenger

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automobiles, small trucks and buses ...

Gasoline engine | Britannica

How Do Gasoline Cars Work? Gasoline and diesel vehicles are similar. They both use internal combustion engines. A gasoline car typically uses a spark-ignited internal combustion engine, rather than the compression-ignited

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systems used in diesel vehicles. In a spark-ignited system, the fuel is injected into the combustion chamber and combined ...

Alternative Fuels Data Center: How Do Gasoline Cars Work?

There are different kinds of internal combustion engines. Diesel engines are

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one type and gas turbine engines are another. Each has its own advantages and disadvantages. There is also the external combustion engine. The steam engine in old-fashioned trains and steam boats is the best example of an external combustion engine. The fuel (coal, wood, oil) in a steam engine burns outside the engine ...

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How Car Engines Work | HowStuffWorks

Before it can get to the engine, the gas has to pass through the fuel filter. The fuel filter removes any impurities or debris from the gasoline before it gets into the engine. This is a very important step and a clean fuel filter is key to a

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long-lasting and clean-running engine. Finally, the gas reaches the engine.

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

How Gasoline Engines Work A gasoline engine is also called a petrol engine in many parts of the world. The word "petrol" is what the British use to

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describe a gasoline engine. They mean the exact same thing, which some people may not realize if they are from America. A gasoline engine is the most common type of

How Gasoline Engines Work - contradatrinitas.it

A gas engine is an internal combustion

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engine that runs on a gaseous fuel, such as coal gas, producer gas, biogas, landfill gas or natural gas. In the United Kingdom, the term is unambiguous. In the United States, due to the widespread use of "gas" as an abbreviation for gasoline (petrol), such an engine might also be called a gaseous-fueled engine or natural gas engine or spark ignited.

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Gas engine - Wikipedia

If you've read How Car Engines Work, you know that almost all cars use four-stroke gasoline engines. One of the strokes is the compression stroke, where the engine compresses a cylinder-full of air and gas into a much smaller volume before igniting it with a spark plug. The

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amount of compression is called the compression ratio of the engine. A typical engine might have a compression ratio of ...

What is octane? - How Gasoline Works | HowStuffWorks

Specifically, an internal-combustion engine is a heat engine in that it

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converts energy from the heat of burning gasoline into mechanical work, or torque. That torque is applied to the wheels to ...

How a Car Engine Works - Car Engine Explained in Plain English

Photo: Car engines turn energy locked in liquid fuel into heat and kinetic energy.

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They're full of pipes and cylinders because they work like mini chemical plants. This is the powerful V12 engine on a gloriously restored Jaguar XJS sports car from the late 1970s.

How do car engines work? - Explain that Stuff

Petrol engine (British English) or

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gasoline engine (American English) is an internal combustion engine with spark-ignition, designed to run on petrol (gasoline) and similar volatile fuels.. In most petrol engines, the fuel and air are usually pre-mixed before compression (although some modern petrol engines now use cylinder-direct petrol injection).

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Petrol engine - Wikipedia

An engine works by igniting fuel in two ways: heat and compression. Spark-ignition engines are found in most gasoline cars. In these types of engines, the spark plugs fire to ignite fuel in the combustion chamber, while the fuel and air mixture is also being compressed.

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How Gas Compression-ignition Engines Work | HowStuffWorks

How Does an Internal Combustion Engine Work? Combustion, also known as burning, is the basic chemical process of releasing energy from a fuel and air mixture. In an internal combustion engine (ICE), the ignition and combustion of the fuel occurs within the

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engine itself. The engine then partially converts the energy from the combustion to work.

Internal Combustion Engine Basics | Department of Energy

(Gasoline fuel injection pressure may be just 10 to 50 psi!) The fuel injectors feed the fuel as a fine spray into the

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combustion chambers of the cylinders through nozzles controlled by the engine's engine control unit (ECU), which determines the pressure, when the fuel spray occurs, how long it lasts, and other functions.

How Do Diesel Engines Work? - dummies

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A CNG engine uses compressed natural gas to power the car. CNG is a substitute for gas and diesel fuel, and is considered to be much cheaper and cleaner than gas or diesel. As an efficient and environmentally-friendly alternative to gas powered cars, the CNG engine has become increasingly popular, and many people choose to convert their cars

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using professional mechanics.

How Does a CNG Engine Work? - CarsDirect

The fuel injection system in petrolengined cars is always indirect, petrol being injected into the inlet manifold or inlet port rather than directly into the combustion chambers . This

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ensures that the fuel is well mixed with the air before it enters the chamber. Many diesel engines , however, use direct injection in which the diesel is injected directly into the cylinder filled with ...

How a fuel injection system works | How a Car Works

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The engine block, pistons, spark plugs, ignition system, lubrication system and electricals all work the same on LPG fuel, consisting of propane, butane or a blend of the two and are also referred to as natural gas liquids - NGL.

LPG Engines for LPG Vehicles - How Does an LPG Engine Work ...

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A propane engine works similar to a regular gas motor. The propane is pulled from the tank and is switched to a vapor to allow it run into the fuel lines. The vapor is passed through a mixer that combines the vapor with air. The mixture is then sent through the combustion process by a fuel injector system.

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