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## How Car Engine Work

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The purpose of a gasoline car engine is to convert gasoline into motion so that your car can move. Currently the easiest way to create motion from gasoline is to burn the gasoline inside an engine. Therefore, a car engine is an internal combustion engine — combustion takes place internally. Two things to note:  
[How Car Engines Work | HowStuffWorks](#)  
The engine is the heart of your car. It is a complex machine built to convert heat from burning gas into the force that turns the road wheels. The chain of reactions which achieve that objective is set in motion by a spark , which ignites a mixture of petrol vapour and compressed air inside a momentarily sealed cylinder and causes it to burn rapidly.  
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The basic operation of the car engine is pretty darn simple. Whether SI or CI the process that creates the power to drive the pistons involves multiple steps. These steps are; intake, compression, combustion, and exhaust. Sounds simple enough on the surface but let's drill down a bit more to see what is really going on:  
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At the front of the end of the engine, the crankshaft connects to rubber belts which connect to the camshaft and delivers power to other parts of the car; at the back end of the engine, the camshaft connects to the drive train, which transfers power to the wheels.  
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Watch this animation and you'll see that a car engine makes its power by endlessly repeating a series of four steps (called strokes):

Intake: The piston (green) is pulled down inside the cylinder (gray) by the momentum of the crankshaft (gray wheel at... Compression: The inlet valve closes. The ...  
[How do car engines work? - Explain that Stuff](#)  
The automobile engine works in a very similar way. Instead of wind, a small, controlled explosion forces the piston, or "arms," of the engine to move. When the energy from the explosion is almost worn out, another explosion occurs, forcing the pistons to move again. This recurring cycle generates the power needed.  
[How does a Car Engine Work? \(with pictures\)](#)  
[How a Car Engine Works](#). Did you know that your car will take in 20,000 cubic feet of air to burn 20 gallons of fuel? That's the equivalent of a 2,500 sq. ft. house! If your only experience with a car engine's inner workings is "How much is that going to cost to fix?" this graphic is for you. Car engines are astoundingly awesome mechanical wonders.  
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In order to fully understand how the latest in speed parts work, you first need to understand how an engine works. Most cars as we know them are powered by what is called a 4-stroke engine. A 4-stroke refers to the four strokes in the power cycle; the intake stroke, the compression stroke, the power stroke and the exhaust stroke.  
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V-8 engine. The 8 cylinders are all connected to the crankshaft in a v-shape. If they are in-line, it will be too long, so to fit into the space of a car, they are put in this way. This layout also keeps the weight evenly distributed. Flat engine. In flat engines, the cylinders that are connected to the crankshaft are laid out in a flat manner.  
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In a nutshell, a car engine works by converting fuel into motion. It's as simple as that. However, what should be understood is that this energy – from the gasoline all the way to the final mechanical energy – passes through a variety of parts or components that are crucial to any engine system.  
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Turbochargers are a type of forced induction system. They compress the air flowing into the engine (see [How Car Engines Work](#) for a description of airflow in a normal engine). The advantage of compressing the air is that it lets the engine squeeze more air into a cylinder, and more air means that more fuel can be added.  
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The burning causes the mixture to expand and push back down on the piston. When the spark plug expands the mixture and pushes down on the piston, the piston pushes back up again and sends the...  
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Engine block: Typically made of iron or aluminum, the engine block houses the majority of the parts that make the engine run, including the cylinders, pistons, crankshaft and camshaft. (If you're popping open the hood, the engine block will usually have the alternator mounted to the front of it.)  
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[How Engines Work](#). An engine is part of every car and truck on the planet. Whether the engine is gas powered or electric your vehicle would not move if not for the engine. Gas powered engines come in two varieties, gasoline or diesel. Both are remarkably similar with the only real difference being the compression ratio and the ignition system which ignites the fuel inside the combustion chamber.  
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An external combustion engine (EC engine) is a heat engine where an internal working fluid is heated by combustion of an external source, through the engine wall or a heat exchanger. The fluid then, by expanding and acting on the mechanism of the engine produces motion and usable work.

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