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100% Effective Natural Hormone Treatment
Menopause, Andropause And Other Hormone Imbalances
Impair Healthy Healing In People Over The Age Of 30!

Your Fuel System

By Kevin Schappell

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The fuel system feed your engine the gasoline/diesel it needs to run. If anyone of the parts in the system break down your engine will not run. Let's look at the major parts of the fuel system,

Fuel tank: Basically a holding tank for your fuel. When you fill up at a gas station the gas travels down the filler tube and into the tank. In the tank there is a sending unit, which tells the gas gauge how much gas is in the tank.

Fuel pump: On newer cars the fuel pump is usually installed in the fuel tank. Older cars have the fuel pump attached to the engine or on the frame rail between the tank and the engine. If the pump is in the tank or on the frame rail then it is electric and is run by your cars battery. Fuel pumps mounted to the engine use the motion of the engine to pump the fuel

Fuel filter: Clean fuel is critical to engine life and performance. Fuel injectors have tiny openings, which clog easily so filtering the fuel is the only way to prevent this. Filters can be before or after the fuel pump, sometimes both.

Fuel injectors: Most domestic cars after 1986 and earlier foreign cars came from the factory with fuel injection. Instead of a carburetor to mix the fuel and air, a computer controls when the fuel injectors open to let fuel into the engine. This has resulted in lower emissions and better fuel economy. The fuel injector is basically a tiny electric valve, which opens and closes with an electric signal. In the picture below you can see the injectors towards the outer part of the intake. By injecting the fuel close to the cylinder head the fuel stays atomized (in tiny particles) so it will burn better when ignited by the spark plug.

Carburetors: A carburetor takes the fuel and mixes it with air without computer intervention. While simple in operation, they tend to need frequent tuning and rebuilding. This is why most newer cars have done away with carburetors in favor of fuel injection.

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Common Problems:

I would say the most common problem is a clogged fuel filter. Make sure you follow your manufacturers recommendations as to when you should change the fuel filter. This information should be in your owner's manual. Symptoms include sputtering at high speeds or engine not starting at all. Always check the ignition system first, if that's ok then the next suspect is the fuel filter.

Next most common problem is the fuel pump failing. Most modern electric fuel pumps can be heard when you turn the key on. If you don't hear the pump running and your car will not start, it could be your fuel pump. The first thing a mechanic will check is the relay, which sends power to the pump. If this is operating correctly then the pump will have to be replaced.

Last but not least are dirty injectors. While the fuel filter does a good job of filtering the fuel, it's not

perfect. Over time deposits and tiny particles lodge themselves in the injectors. This can clog and injector and prevent it from delivering the fuel the engine needs. It can also cause an injector to stick open and send too much fuel into the engine. A regular addition of fuel system cleaner like STP Injector Cleaner, or Techtron fuel system cleaner can help keep your injectors clean. Most gas stations, department stores and all automotive parts stores will have a good cleaner available. Add it to your empty tank right before you fill up and it will clean as you drive. I recommend doing this every 3 months to keep your injectors performing like new. Mechanics also offer a cleaning service where they actually disconnect the fuel line and flush cleaner through the engine. This is only necessary when you let your injectors get to a point where they can not be cleaned by a store-bought product. Regular use of a good in-tank cleaner will keep you from having to pay for this service.

Where do you buy your gas?

Believe it, or not, it can make a difference. Always buy from a well know national brand service station. Gas stations, which are not affiliated with one brand of gas, tend to get whatever is left at the end of the day from the delivery truck. One day they might get Texaco, and Exxon another. Also water mixed with gas will cause problems with your engine. The engine will not run right, plus the water will promote rust in the fuel system. I have experienced this when I purchased gas at some no-name gas stations. Your car will feel sluggish and sometimes refuse to run if there is enough water in the gas.

Octane rating tip!!!!

Putting super in the tank will not get you any more performance or gas mileage unless specifically recommended by your cars manufacturer. If your owners manual says put in 87 octane..... DO IT. You are throwing money out the window if you are filling up on Super or Premium and you only need Regular.

Kevin Schappell maintains

where he gives advice on buying, selling,

insurance, and financing. A mechanical engineer and car guy, Kevin has decided to spend his online time helping others learn about automobiles. To learn more about how your car works, Kevin has created

5 Effective Ways To Save Your Gas And Money

By Adwina Jackson

Controlling a family budget could be a more challenging task than planning it. It turns out to be even harder when gas price goes up unpredictably and it really strangles your neck, both yours and your partner's.

Living without gas is nearly impossible. However, saving your money through gas is not. How? These 5 great tips below will help you save gas.... and money.

1. Save Gas Money Through Fuel

Learning to conserve gas can save you a great deal of money. You should avoid aggressive driving, such as speeding and revving the engine and breaking the pedal too fast. These actually waste gas. Indeed, slamming the breaks is also an example of wasting gas. So, if you want to save your money, try to eliminate those forceful actions. If you happen to wait for something while you're in the car, it's best to turn off the engine. This will lessen your gas spending, thus lessen your costs, too.

2. Save Gas Money by Taking Good Care of Your Car

You need to take more attention on your car. Good maintenance leads to spending lesser amount of money. You'd better have a regular tune up and do not fail in emission test. Keeping an eye on the tires is also beneficial. Don't let them get over or under inflated. If you can fix those problems earlier, it will save your money up to about 3 percent of your fuel.

3. Get a Gas Membership Card

You should get a credit card that you will use particularly for your gas purchases. Some of the credit cards provide excellent gas savings when you use the card. To bring you there, all you need to do is to get a gas membership card. Some gas stations offer some pretty good incentives with their memberships.

4. Get a Hybrid Vehicle

If SUVs are your great desire, it's too bad, because that's absolutely not a good choice of saving your gas and money. Sedans may be more economical than SUVs, but still they are probably not your preference. So, a better option for it is to get a Hybrid SUV. This will not cause you to pay for the extra gas. However, you know that SUV is pricey, so it's best if you think about deciding it if it is really worth

it.

5. Improve Your Fuel System

You know previously that it's easier when you take good care of your vehicle. Using a quality fuel additive, such as a fuel system cleaner or conditioner is a great attempt. A fuel system cleaner is able to clean up harmful deposits, which can cause a problem for the fuel injectors. It can also stop them before they get there in the first place. In the meantime, a fuel conditioner can also keep residue from forming in your car's fuel system, prevent varnish or gum from building up in the engine, and throws

away the moisture that may have developed from condensation.

Adwina Jackson is a working mother of a gorgeous young boy. Join her free e-mail guides about How to Save Gas and Money at

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