# The 10 Best Fuel Injector Cleaner in 2024

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Precision is essential for fuel injection systems. Modern fuel injectors are highly sophisticated and dependable fuel delivery systems created for convenient option performance and fuel efficiency by operating on data supplied by the engine management system, in contrast to older carburetors that depended on numerous adjustments and manual tuning to extract the best performance. However, just like carburetors before them, when the gasoline passes through the components, carbon and other deposits may develop over time and impede the spray from the injector nozzles. The consequence is rough running, a loss of power, and decreased gas mileage, all of which can harm your fuel system and engine over time.

While it is feasible to replace the fuel injector, a good fuel injection cleaner frequently offers a quick and cost-effective alternative. These chemicals dissolve debris, clean fuel lines and injector nozzles, and assist in lowering emissions when added to gasoline. Some fuel injector cleaners use detergents like PEA (Polyetheramine), which cleans and clears away hazardous deposits and blockages in their formulations. Some of them include lubricants for the top cylinders (above the piston rings, where oil cannot reach). Make sure to carefully read the directions because some are specifically for diesel engines, while others are solely for gasoline engines.

On the Linquip website, among the many options available to you, you will find all the information you need to know about the Fuel Injector Cleaners, as well as information regarding this marketplace. You can count on Linquip to provide you with as much general and reliable information about this topic, whether you're a professional or a customer looking for a proper company. We recommend you review a list of all **Fuel Injector Cleaner** available in Linquip.

We would be delighted to provide you with more information on how we can help you generate revenue within your industry. Don't hesitate to contact us if you have any questions! With Linquip's Solutions for Each Company Level, you will be able to upgrade the capabilities of your organization in order to gain a competitive edge by taking advantage of a wide range of options to enhance your organization's performance. If you are looking for the simplest or the most sophisticated marketing and advertising package for your business, we can help you ensure that your company gets as many customers as possible to grow your business.

# List of 10 Best Fuel Injector Cleaner in 2024

According to the factors that we will mention in this article, Here is the List of 10 Best Fuel Injector Cleaner in 2024:

- 1. Red Line SI-1 Complete Fuel System Cleaner
- 2. Liqui Moly Jectron
- 3. Chevron Techron Concentrate Plus
- 4. Gumout High Mileage
- 5. Lucas Upper Cylinder Lubricant and Injector Cleaner
- 6. Cataclean Petrol
- 7. Royal Purple Max-Clean Fuel System Cleaner and Stabilizer
- 8. Sea Foam Motor Treatment
- 9. BG 44K Fuel System Cleaner
- 10. STP Super Concentrated Fuel Injector Cleaner

# How We Selected The 10 Best Fuel Injector Cleaner in 2024

**Efficacy in Removing Deposits:** We prioritized cleaners proven effective in dissolving and removing carbon, gum, and varnish deposits from fuel injectors. Products with a strong track record of improving fuel flow and engine performance were selected.

**Compatibility with Engine Types:** It was essential to choose cleaners compatible with a wide range of gasoline engines, including cars, trucks, and motorcycles. This broad compatibility ensures that our selections cater to a diverse range of vehicles and fuel systems.

**Ease of Use:** We looked for fuel injector cleaners that are user-friendly. This includes considering how easily the product can be added to the fuel system, whether special tools are required, and if the product works effectively without the need for professional assistance.

**Customer Feedback and Reviews:** Customer experiences and reviews played a crucial role. We analyzed feedback from various sources to gauge the real-world effectiveness, benefits, and potential drawbacks of each cleaner.

**Cost-Effectiveness:** Finally, we considered the cost-effectiveness of each product. This involved evaluating the price relative to the performance and the frequency of use required to maintain effectiveness. Our goal was to provide options that offer the best value for money.

# What Are Fuel Injector Cleaners?

Any fuel-injected engine may experience blocked injectors, which is one of the most frequent issues. These injectors provide gasoline to the combustion chamber. When you stop to think about it, they are among the most important components of an engine. Without gasoline in the combustion chamber, there would be no combustion, which results in a car losing power, using more fuel, and emitting more pollution.

You are among the fortunate few if your engine has never lost power despite routine maintenance. Every auto parts store has a variety of fuel injector cleaners that claim to be able to clean your entire fuel system and get your engine running like new because clogged fuel injectors are so common. If it doesn't already have other issues, that is.

We attempt to address all of your questions regarding fuel injector cleaners here, including why they are required in the first place, how to use them, if you should use them yourself or see a professional, and other topics.

# The Function of Fuel Injectors

Utilizing fuel injectors, fuel is introduced into the combustion chamber, combined with air, and then ignited to produce power. A high-pressure fuel pump feeds gasoline to the injector, which then atomizes it with the help of a tiny nozzle so that it may combine with air fast.

It resembles an aerosol spray can somewhat: a bottle that is already under pressure and equipped with a tiny nozzle to atomize the liquid into tiny particles. The fuel injector functions similarly, producing a fuel vapor that burns predictably, efficiently, and cleanly by using higher pressures, smaller nozzles, and precise metering. For improved air-fuel blending, more recent injectors for direct injection engines even have multiple nozzles on the tip.

Since 1980, when carburetors began to be phased out, every modern internal combustion engine, including diesel engines, uses injectors to deliver fuel to the combustion chamber (do not use a gas engine-only injector cleaner in a diesel, though). The ECU (engine control unit) regulates the procedure, ensuring that the injector always delivers gasoline precisely when the engine requires it. Timing is crucial because improper fuel injection can cause an engine to malfunction or possibly cause damage.

Fuel injectors need almost perfect operating conditions, such as very clean fuel and, in the matter of direct injection systems, a clean nozzle tip and a clean combustion chamber, as they are highly sensitive parts with very narrow channels that are continually under great pressure.

# What Causes Fuel Injector Clogs?

Our car fuels, such as gasoline and diesel, are never as clean as they ought to be. The fuel we receive today contains fine particulates, a small amount of water, and a few octane boosters.

All of these factors have the potential to harm the fuel injectors, but carbon buildup is unquestionably their worst adversary. Every engine eventually experiences this; while most of the carbon produced during combustion is expelled from the engine through the exhaust system, a small amount remains in the combustion chamber and, with time, can obstruct the pathways for fuel and the air-fuel mixture. Your automobile may start losing power and using more gasoline when you add the potential for the injector to corrode due to water in the fuel and certain byproducts from the ethanol.

This is why it's crucial to maintain your fuel injectors clean. In addition to losing power, your fuel efficiency may also decline.

# What Functions Do Fuel Injector Cleaners Serve?

Fuel injector cleaners are additives that assist your engine run at its best by providing the proper air-fuel ratio by dissolving the deposits in the injector and the combustion chamber. Consider them as fuel system detergents.

These cleaners may remove carbon buildup from the combustion chamber, from behind the intake valves, and from the area surrounding the spark plugs as well as the interior of your injector. Each of them contains active components that aid in breaking down the deposits into much smaller fragments that are then burnt or expelled through the exhaust system.

# **How Do Fuel Injector Cleaners Work?**

The majority of the ingredients in fuel injector cleaners are solvents, which are capable of effortlessly removing deposits. The primary degreasing component of these additives is a substance known as PEA or polyetheramine (see the part below this one), a nitrogen-based detergent that works wonders at removing carbon buildup. PEA has excellent heat resistance, making it ideal for clearing deposits from combustion chambers where temperatures can reach 1200°F, as well as cleaning fuel injectors.

Scientific studies have demonstrated that polyetheramine is the best chemical for removing carbon buildup, therefore you should always seek additives that include this chemical. Some cleaners contain additional compounds that the producers say make them superior to other cleansers.

# The Best Fuel Injector Cleaner in 2023

# 1. Red Line SI-1 Complete Fuel System Cleaner



Red Line SI-1 Complete Fuel System Cleaner (Reference: amazon.com)

# **Pros & Cons**

- Detergent and lubricant mixture
- May enable the use of cheaper, lower-octane fuel in cars.
- Beyond injector cleaning to include fuel system cleaning

#### Cons

- Preventative measures are preferable to treating immediate fuel system issues.
- Some customers claim the manufacturer sent them bottles that were leaking or broken.
- Costly compared to rival products

### **Specifications**

Manufacturer	Red Line
Brand	Red Line
Item Weight	1 pounds
<b>Product Dimensions</b>	10 x 2.32 x 2 inches

### **Product Description**

Red Line began by creating specialized goods for the racing industry, and it is still well-known today. With a concentrated mixture of high-temperature and low-temperature detergents, an upper cylinder lubricant, and a high concentration of PEA for optimal cleaning, its SI-1 Complete Fuel System Cleaner has its own unique recipe. SI-1 is a full-fuel system cleanser rather than simply an injector solution. It also improves fuel stability, lessens gum and varnish development, and, according to the company, can minimize the fuel octane needed for the vehicle. However, compared to other cleaners, the cost per ounce is high, and not all users report improved effectiveness.

# 2. Liqui Moly Jectron



Liqui Moly Jectron (Reference: amazon.com)

# **Pros & Cons**

### **Pros**

• Rigorous TUV inspection and testing in Germany

- Works nicely with older automobiles
- Safe for catalytic converters and oxygen sensors

#### Cons

- Expensive per ounce in comparison to other products
- Use not intended for diesel engines
- A small percentage of customers say there is no performance change.

### **Specifications**

Manufacturer	Liqui Moly
Brand	Liqui Moly
Model	Jectron Fuel Injection Cleaner
Item Weight	8 ounces
Item model number	2007

### **Product Description**

Actually, we imply something other than that this is just for automobiles from abroad. German-made Liqui Moly Jectron is available in North America. And that matters since it was examined and evaluated by the independent German testing company Technischer Überwachungsverein. TUV accreditation indicates that it has undergone safety testing and satisfies manufacturer claims. Users may anticipate smoother idling, improved throttle response, cleaner combustion, and the elimination of starting issues, hesitancy, and stalling, according to Liqui Moly. Older car owners are among the product's greatest enthusiasts, claiming they obtain outstanding results, although Jectron is still designed for cars with catalytic converters that were manufactured after 1975. It is not meant to be used in diesel engines, and as usual, some users claim that it was ineffective for them.

### 3. Chevron Techron Concentrate Plus



Chevron Techron Concentrate Plus (Reference: amazon.com)

### **Pros & Cons**

- Affordable price
- Fuel injectors, carburetors, intake valves, and combustion chambers are all cleaned by a full-system cleaner.
- Widely accessible

#### Cons

- It was made for motors in automobiles, ATVs, motorcycles, and even boats, however it could perform better on older motors.
- Some consumers claim to have received bottles with damage or leaks.
- Not made for use with diesel engines (Chevron sells a different diesel injector cleaner)

# **Specifications**

Brand	Chevron
Item Form	Liquid
Scent	Unscented
Item Volume	20 Fluid Ounces

### **Product Description**

Chevron Techron Concentrate Plus, like the Red Line SI-1, cleans the whole fuel system in addition to the injectors. In addition to the detergent PEA, it also touts its own proprietary chemical, Techron, an additive Chevron has long utilized in goods like its fuel. It is inexpensive and widely accessible, including at the majority of Chevron petrol stations. Only gasoline engines may use this. Chevron offers a unique diesel-specific fuel injector cleaning for sale. Not all customers claim to see a discernible increase in performance, as is the case with all of these goods.

# 4. Gumout High Mileage



Gumout High Mileage (Reference: amazon.com)

### **Pros & Cons**

#### **Pros**

- Reputable brand
- One of the most potent detergent formulas
- Affordable price

#### Cons

- Several owners claim there was no difference after using it.
- Clear bottles expose the liquid to light, potentially reducing shelf life.

• For maximum results, repeated treatments are necessary.

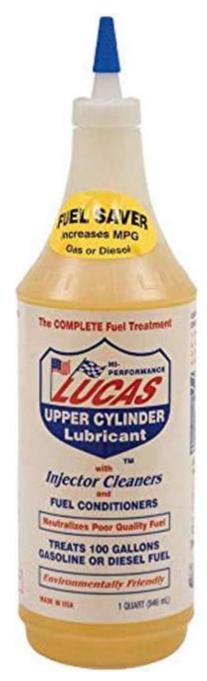
### **Specifications**

Manufacturer	Gumout
Brand	Gumout
Model	510013W-6PK
Item Weight	2.55 pounds
Product Dimensions	5.56 x 3.69 x 9 inches

### **Product Description**

There are likely to be considerable deposits of carbon, silt, and gum blocking the injector nozzles and other components in vehicles with more than 75,000 miles on them that have never been cleaned with a fuel injector cleaner. Gumout High Mileage is made with one of the greatest amounts of PEA available on the market, making it perfect for eradicating thick, caked-on deposits. The greatest results can still take many applications, which is why Gumout sells its cleaner in a six-pack of six-ounce bottles. The impact takes a tank or two to become noticeable, and in older automobiles, it can take much longer. Fortunately, the cost per ounce remains one of the lowest.

# 5. Lucas Upper Cylinder Lubricant and Injector Cleaner



Lucas Upper Cylinder Lubricant and Injector Cleaner (Reference: amazon.com)

### **Pros & Cons**

- Prolongs the life of the injectors, valves, and pumps in the complete fuel system by lubricating them.
- Good for carburetor and fuel-injected engines

Reduces the negative impacts of low-sulfur diesel fuel

#### Cons

- Intended for periodic maintenance, not for use in solving fuel system problems right away.
- If kept on the shelf, it gradually loses effectiveness.
- Several people who consume gasoline claim decreased fuel economy following usage.

### **Specifications**

Manufacturer	Lucas Oil
Brand	Lucas Oil
Model	051-587
Item Weight	1.98 pounds
Product Dimensions	3.3 x 3.3 x 3.3 inches

### **Product Description**

While working on both gasoline and diesel engines as well as on cars with carburetors, Lucas Upper Cylinder Lubricant and Injector Cleaner are specially formulated to make it a superior product for diesel. Since 2006, low-sulfur diesel fuel, which is almost exclusively used on American roads, has been lubricating the fuel rail and diesel injectors and neutralizing any potentially harmful effects. Additionally, the price is reasonable at \$10 for a 32-ounce bottle, which equals one of the lowest prices per ounce on the market.

### 6. Cataclean Petrol



Cataclean Petrol (Reference: ebay.com)

# **Pros & Cons**

- EPA Accepted
- Simple to use: Just pop, drink, and go every three months
- Original long-nose bottle that is suitable with capless gas tanks
- Doesn't change the fuel's composition and is secure for use in hybrid, diesel, and gasoline engines.
- Restores the cylinder heads, oxygen sensors, fuel injectors, and catalytic converter.

#### Cons

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### **Specifications**

Manufacturer	Mr. Gasket Co.
Brand	Cataclean
Model	CATACLEAN EXST SYS/
Item Weight	15.8 ounces
Product Dimensions	2.68 x 2.68 x 9.06 inches

# **Product Description**

One of the top manufacturers of automobile additives in the UK and North America is Cataclean. While Cataclean Petrol is the focus of this article for vehicles that run on unleaded fuel, Cataclean Diesel and Cataclean Hybrid are also options. All of them have the goal of enhancing performance and fuel efficiency while lowering emissions.

A full cleaner for the fuel and exhaust systems is Cataclean Petrol. It aids in removing carbon buildup from the catalytic converter, oxygen sensors, exhaust gas recirculation valves, fuel injectors, valves, and oxygen sensors.

It goes without saying that using Cataclean is easy. Simply pour the bottle into your petrol tank, then drive for around fifteen minutes. For optimal effects, it is advised that you add one bottle to around four gallons of gasoline.

# 7. Royal Purple Max-Clean Fuel System Cleaner and Stabilizer



Royal Purple Max-Clean Fuel System Cleaner and Stabilizer (Reference: amazon.com)

### **Pros & Cons**

- A 3-in-1 gasoline additive maintains the cleanliness of new engines and enhances vehicle performance.
- Increases fuel efficiency by 3.2 percent on average.
- Increases horsepower by 2.6 percent on average.

 Reduces emissions of CO, NOx, and hydrocarbons (on average 12, 13 and 18-percent respectively)

#### Cons

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## **Specifications**

Brand	Royal Purple
Item Form	Liquid
Item Volume	15 Liters
Unit Count	40 Fl Oz

# **Product Description**

This Max-Clean Fuel System Cleaner and Stabilizer is a product of Royal Purple, another well-known name in the automotive sector. It is a little more expensive than the other suggestions on our list, but if you want a clean engine, the cost is worthwhile. Your car's emissions will be reduced, which will let it operate more efficiently and even give it more power and mileage.

Additionally, following this advice stabilizes the gasoline when your automobile is not driven for extended periods of time. Twenty gallons of gasoline should be cleaned with one can of this fuel injector cleaning. It functions on any gasoline- or diesel-powered four- or two-stroke vehicle. According to the manufacturer, you may anticipate an average 3.2 percent increase in fuel efficiency as well as an average 2.6 percent increase in horsepower.

### 8. Sea Foam Motor Treatment



Sea Foam Motor Treatment (Reference: amazon.com)

### **Pros & Cons**

#### **Pros**

- Fuel deposits and sticky buildup from gas and diesel fuel injectors, carburetors, and combustion chambers are dissolved and cleaned.
- NOT contain abrasive or harsh detergents that could damage your engine

### Cons

# **Specifications**

Manufacturer	Sea Foam
Brand	Sea Foam
Item Weight	2 pounds

<b>Product Dimensions</b>	10 x 10 x 5 inches
Item model number	SF-16-2PK

### **Product Description**

Sea Foam's Motor Treatment is a well-liked alternative that works on a range of engine types, including diesel and gasoline engines. It is made to remove extremely dense carbon buildups, and it will also clean and lubricate your fuel system to make it run longer. Use this in conjunction with other Sea Foam products to completely remove all of the deposits from your engine, which is ideal for older engines that have a lot of buildup within.

According to the manufacturer, this motor treatment can even help to stabilize gasoline that has been kept for up to two years by avoiding gum and varnish development, inhibiting evaporation, and conserving ignition vapors. There are no harsh detergents or abrasive chemicals, which might possibly harm your engine, in this solution because it solely comprises petroleum-based substances. Under the right circumstances, we've seen it perform admirably with noisy lifters.

# 9. BG 44K Fuel System Cleaner



BG 44K Fuel System Cleaner (Reference: amazon.com)

### **Pros & Cons**

- Effective Cleaning: Efficiently cleans fuel injectors, valves, and combustion chambers.
- Performance Improvement: Helps restore fuel efficiency and engine performance.
- Versatility: Suitable for all types of gasoline engines.
- Ease of Use: Simple to use; just add to the fuel tank without the need for complex procedures.

• Preventative Maintenance: Regular use can help prevent future buildup and maintain engine health.

#### Cons

- Price: Generally more expensive than some other fuel system cleaners.
- Availability: Might not be as readily available in all local auto parts stores compared to other brands.
- Overuse: Not designed for very frequent use; overuse can lead to diminishing returns.
- Specific Needs: May not be necessary for newer vehicles with minimal deposit buildup.
- Immediate Results: While effective, it might not solve underlying mechanical issues that contribute to poor engine performance.

### **Specifications**

Manufacturer	BG Products, Inc.
Item Weight	Approximately 1 pound (0.45 kg)
Product Dimensions	Varies by package, typically around 3 x 3 x 9 inches
Item Model Number	BG 44K

#### **Product Description**

BG 44K Fuel System Cleaner is a highly regarded product in the automotive industry, known for its effectiveness in cleaning the entire fuel system, including fuel injectors, intake valves, and combustion chambers. The cleaner is designed to quickly and effectively break down deposits that accumulate in the fuel system, which can hinder vehicle performance. These deposits can lead to issues like reduced fuel economy, increased emissions, and overall poor engine performance. BG 44K is formulated to tackle these problems, restoring efficiency and enhancing the driving experience.

The product is compatible with all gasoline engines and is safe to use with various fuel additives. It's particularly noted for its strength and efficiency in cleaning; a single can of BG 44K is capable of treating up to 20 gallons of gasoline. The cleaner's fast-acting formula means that improvements in performance can often be noticed shortly after use. BG 44K is also recommended for use at regular intervals as part of a routine maintenance schedule to keep the fuel system in optimal condition.

# 10. STP Super Concentrated Fuel Injector Cleaner



STP Super Concentrated Fuel Injector Cleaner(Reference: amazon.com)

### **Pros & Cons**

- Effective Cleaning: Efficiently cleans and removes deposits from fuel injectors.
- Enhances Performance: Helps to restore engine performance and fuel efficiency.
- Universal Compatibility: Suitable for all types of gasoline engines.
- Easy to Use: Simply add to the fuel tank with no special tools or knowledge required.

Affordable: Generally more budget-friendly compared to other fuel injector cleaners.

#### Cons

- Regular Use Required: For best results, regular use is necessary, which could add up in cost over time.
- Not a Fix-All Solution: While effective for maintenance, it might not resolve more severe engine problems.
- Varying Results: Effectiveness can vary based on the condition of the vehicle and the extent of deposit buildup.
- Potential Overuse: Frequent use beyond recommended levels might not provide additional benefits and could lead to wastage.
- Storage and Handling: As with all chemical products, proper storage and handling are required to ensure safety.

### **Specifications**

Manufacturer	STP
Item Weight	Varies by package; typically around 0.5 to 1 pound (0.23 to 0.45 kg)
Product Dimensions	Varies by package; approximately 2 x 3 x 8 inches (5 x 7.6 x 20.3 cm)
Item Model Number	Different versions available depending on the size and formulation

#### **Product Description**

The STP Super Concentrated Fuel Injector Cleaner is a well-known automotive additive designed to improve the performance and efficiency of fuel injectors in gasoline engines. This cleaner works by dissolving and removing harmful carbon, gum, and varnish deposits that can accumulate over time in the fuel system. These deposits can impede fuel flow, reduce engine efficiency, and increase emissions. By cleaning the fuel injectors, the STP cleaner helps to restore optimal engine performance, enhance fuel economy, and reduce emissions. It's formulated for use in all types of gasoline engines, including those in cars, trucks, and motorcycles.

One of the key features of the STP Super Concentrated Fuel Injector Cleaner is its convenience and ease of use. Simply adding it to the gas tank during a routine fill-up allows the cleaner to mix with the fuel and work as the vehicle is driven. It's particularly

recommended for vehicles that have started to exhibit symptoms of clogged injectors, such as rough idling, hesitation during acceleration, or increased fuel consumption. Regular use of this product as part of maintenance can help in keeping the fuel injectors in good condition, potentially extending the life of the engine components.

# **Fuel Injector Cleaners: How to Use**

How effectively your car's engine operates is greatly influenced by how frequently you clean your fuel injectors. A simple approach to guarantee that your automobile is performing at its top and gaining improved fuel economy is to use fuel injector cleaners.

There is no need to see a professional; using fuel injector cleaners is a very easy procedure that anybody can complete. It's crucial to apply a gasoline injector cleaning on an almost empty tank of gas just before you start, right before you're ready to fill up at a gas station.

# Purchase The Ideal Fuel Injector Cleaning For Your Vehicle's Engine

Not all fuel injector cleaners are made the same. While the majority of them operate on any fuel, others exclusively function with gasoline, diesel, or ethanol mixtures. If your vehicle has a turbocharger or catalytic converter, you should also confirm that it is compatible with them. To ensure that you get the correct product for your engine type, carefully read the directions on every box.

# You Should Refer To The Instructions To Determine How Much Fuel Injector Cleaning You Require

The instructions will also assist you in determining the appropriate quantity for the size of your tank. Almost always, one bottle of fuel injector cleaning is sufficient for one tank, but you might need to use more or less of the additive if your gasoline tank is larger or smaller than the standard size.

#### Make Sure Your Car's Fuel Level Is Low

Fuel injector cleaners can be used with a full tank of fuel, but it is preferable to use them with an empty tank so they can mix with the fuel more effectively.

# Taking Off The Fuel Cap

Fuel should be combined with all cleaners, thus removing the fuel lid.

# Fill The Gasoline Tank With The Fuel Injector Cleaning

Fuel injector cleaner should be poured out of the bottle. If a funnel is included with the bottle, use it to prevent spillage. On certain bottles, there are additional measurement tools (attached to the bottle). Before adding cleaner to the tank, make sure to fill them to the proper level.

# Fill Up Your Petrol Tank

You should fill up your automobile with gasoline, diesel, or any other fuel after pouring the fuel injector cleaning. Because of this, it's recommended that you do these procedures while at a petrol station. The empty bottle should be disposed of properly.

# **Drive The Automobile To Empty The Petrol Tank**

It goes without saying, but there are a few things to take into account if you want the greatest cleaning.

Driving on the highway or at greater speeds is recommended. By doing this, the fuel system's pressure will be increased, which will make it easier for the cleaner to remove the deposits. Additionally, cleaning the carbon buildup inside the combustion chamber and expelling it through the exhaust will assist.

Increase the engine RPMs. Even while driving or leaving the car in park, you can do this. In other words, don't be afraid to step on the gas because it will improve cleaning.

# If Necessary, Repeat Steps 1 Through 7

If your engine has internal deposits or some of the injectors are jammed, one bottle of fuel injector cleaning often does the work. But if the engine is still not operating normally, repeat steps one through seven. Using these additives more than once is not a concern because they don't have any negative impact on the engine.

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