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Saves on Fuel

Increases Horsepower

Lowers Toxic Exhaust Emissions

Reduces Greenhouse Gases

Easy Installation

Lasts over 10 years

***Installation Booklet***



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# INSTALLATION CRITERIA

## FOR PETROL VEHICLES

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### Statistics

#### **ⓘ Know your vehicle. Before installing your Fuel Saver:**

- ⓘ perform two or three mileage tests for comparison after installation. Mileage is the sum of the total distance travelled divided by the amount of fuel used.
- ⓘ obtain an exhaust emissions reading for comparison with a second test at a later date after installation. Emissions readings are best tested whilst the vehicle is under load, for example on a dynamometer.

### Checklist Prior to Installation

#### **ⓘ It is vital you complete the following prior to installation to determine that:**

- ⓘ a) you have the correct Fuel Saver kit for your vehicle
- ⓘ b) the condition of your vehicle and fuel system will not have a negative affect on the performance of the Fuel Saver

**❗ Which Fuel Saver Kit is required?**

Q~ What is the engine size of your vehicle? \_\_\_\_\_

Q~ What is the size of your fuel tank? \_\_\_\_\_

Kits are specific to engine size and fuel capacity. Check the graph below to determine which kit suits your vehicle.

| ENGINE SIZE    | TANK CAPACITY     | KIT #  |
|----------------|-------------------|--|
| Under 3 Ltr    | Under 50 Ltr      | M01027   |
| Under 3 Ltr    | 50 Ltr to 100 Ltr | M01058   |
| 3 Ltr to 6 Ltr | All up to 100 Ltr | M01058   |
| Over 6 Ltr     | Over 100 Ltr      | More than 1 kit is needed. Your Dealer will advise you of your options |

**❗ What if there is more than one fuel tank?**

Q~ Does the vehicle have a secondary tank? \_\_\_\_\_

Q~ Does the vehicle have a reserve tank? \_\_\_\_\_

A secondary tank feeds fuel directly to the engine. This tank needs Fuel Saver sensors installed or the fuel from this tank will not be treated. Dependant upon the size of the tanks, 1 kit may not be adequate. See your dealer for options.

A reserve tank feeds fuel into the main tank. A reserve tank does not need fuel sensors installed. The fuel will be treated when it is delivered into the main tank.

**! What is the condition of the vehicle?**

Q~ Is the vehicle within its service schedule? \_\_\_\_\_

The Fuel Saver will not fix a poorly maintained vehicle.

If a vehicle engine is emitting excessive exhaust smoke, the Fuel Saver may not function.

**! What is the impact of fuel additives?**

Q~ Have fuel additives been used within the last 3 tanks of fuel? \_\_\_\_\_

Fuel additives may void the effectiveness of the Fuel Saver, and in some cases will permanently destroy the fuel sensors.

If fuel additives have been used, it is necessary to deplete 2 to 3 tanks of fuel prior to installing the Fuel Saver.

**❗ Do I have to rev the engine as the final procedure for this installation?****YES**

Q~ What is the age and mileage of the vehicle?

Age \_\_\_\_\_ Mileage \_\_\_\_\_

After the kit is installed, the Fuel Saver needs to be calibrated. Once calibrated the 'Molecule Reaction Technology' (MRT) is activated.

Allow 30 minutes to lapse from the time the fuel sensor makes contact with the fuel to the time the revving procedure is initiated.

The engine must be revved in neutral, alternating between 50% and 60% of maximum RPM to activate the system. This will complete the process.

If the vehicle is less than 2 years old, and travelled less than 25,000 Kms, rev the engine for 2 minutes.

If the vehicle is more than 2 years old, or travelled more than 25,000 Kms, rev the engine for 5 minutes.

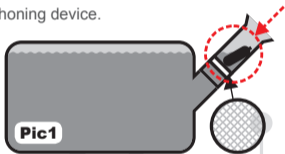
# INSTALLATION PROCESS

**FOR PETROL VEHICLES** *Kit # M01027 Install Fuel Sensor*  
*Kit # M01058 Install Two Fuel Sensors*

**WARNING:** Petrol is a hazardous substance and must be handled with extreme care.

Most passenger vehicles are fitted with an anti-siphoning device.

- It is usually found in the fuel filler tube.
- It will prevent the fuel sensor from entering the fuel tank (Pic1).



**There are varying methods of installing the fuel sensor. Your workshop or mechanic will need to identify the most suitable installation procedure:**

1. Through the sender or fuel pump via the access plate.
2. Through the neck of the tank by removing the anti-siphon.
3. Through the sender or fuel pump by removing the tank.

## 1) Through the Sender or Fuel Pump via the access plate

An access plate is usually found in the boot or under the back seat. (Pic2) In this case, under the back seat.

- Remove the access plate and remove the pump / sender unit (Pic3).
- Drop the fuel sensor into the tank.

**NOTE:** Generally most vehicle manufacturers recommend a new pump or sender gasket be installed when carrying out this process.



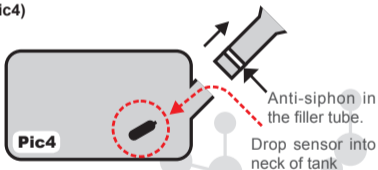
## 2) Through the Neck of the Tank by removing the anti-siphon

The filler tube is connected to the neck of the tank by a rubber connecting hose.

- Disconnect the hose and the filler tube.
- The anti-siphon will either be inside the filler tube, attached to the neck of the tank or integrated with the tank neck.

### Anti-siphon inside the filler tube (Pic4)

- Drop the fuel sensor down the neck of the tank.

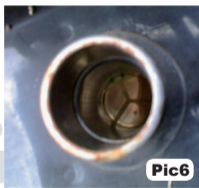
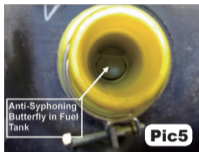


**Anti-siphon attached to the neck of the tank (Pic5)**

- Remove the anti-siphon
- Drop the sensor down the neck of the tank.

**Anti-siphon integrated with the tank neck (Pic6)**

- The fuel sensor cannot be dropped into the neck of the tank.
- The fuel sensor must be installed through the sender or fuel pump.



### 3) Through the sender or fuel pump by removing the tank

**NOTE:** This method is only used if your vehicle does not have an access plate.

The tank should be as close to empty as possible. A full tank of fuel is extremely heavy and can cause injury. Either drain the fuel from the tank or wait until you have consumed the fuel before commencing your installation.

- Disconnect all wiring and hose fittings associated with the tank.
- Loosen or remove devices that secure the tank.
- Remove or lower the tank.
- Follow the instructions above relating to installing the sensor through the sender or fuel pump.

### Install the Air Sensor

The air sensor is installed in the air intake tube or inside the air filter housing. It is mounted on the pre-filtered (before the air is filtered) side of the air filter. It is held in place by the self-adhesive pad.

- Find a suitable location.
- Clean the selected area.
- Attach the sensor.

Consider securing the sensor with a plastic cable tie as outlined below.

Be sure the location allows access to thread a cable tie around the sensor.

- Drill two 2.5 mm holes on either side of the sensor.
- Ensure the opposite side of the drill site is clear (Pic7).
- Use an appropriate plastic cable tie to secure the air sensor (Pic8).

cable tie shown from the outside



cable tie shown from the inside



### Install the Water Sensor

Use the metal clamp provided to attach the sensor onto the outside of the top radiator hose. Consider securing with a plastic cable tie (Pic9).



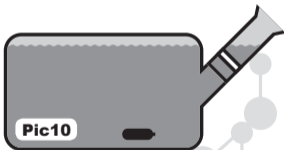
### Final Procedure - Complete the Process

#### Step 1

To allow the effects of the Fuel Saver to act on the fuel, the fuel sensor will need 30 minutes in contact with the fuel (Pic10) prior to Step 2.

#### Step 2

The Fuel Saver needs to be calibrated. Once calibrated the 'Molecule Reaction Technology' (MRT) is activated. The engine must be revved in neutral, alternating between 50% and 60% of maximum RPM to activate the system. This will complete the process.



**Example:** If the maximum engine speed is 7,000 RPM, alternate RPM between 3,500 and 4,200 RPM.

- Less than 2 years old and 25,000 Kms, rev the engine for 2 minutes.
- More than 2 years old or 25,000 Kms, rev the engine for 5 minutes.



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July 3, 2007

## EXECUTIVE SUMMARY

A "Proof-Of-Concept" test series was conducted using the Moletech Fuel Saver aftermarket device. The tests were accomplished using accepted Federal Test Procedures (FTP) at the California Environmental Engineering (CEE)-Center for Environmental Research in Santa Ana, California. The test protocol was based on Federal Test Procedures defined in CFR-40,Part 86, Appendix 1. The independent test facility is both EPA-recognized and CARB-certified. A representative light-duty gasoline vehicle (2004 Chevrolet Tahoe) was selected and used for the chassis-dynamometer tests.

The POC test series included three (3) FTP-Tests to establish an average "Baseline" without the Moletech Fuel Saver Device (MFSD).After installing the Moletech System,the test vehicle was run 50(+) miles to familiarize the fuel supply and computer with the aftermarket device. Three additional FTP-Tests were accomplished for an average with the MFSD. The average baseline was compared to the average established using the Moletech System to determine accurate reduction in key vehicle tailpipe emissions and fuel economy.Analysis of the database indicates a reduction in key vehicle tailpipe emissions and an increasing improvement in fuel economy using the Moletech Fuel Saver Device. This included a significant reduction in Total Hydrocarbons (THC) and Carbon Monoxide (CO). The results of the limited but decisive test series is considered noteworthy and verifies with a high level of confidence the viability of the technology while indicating the more dramatic improvement could be expected and achieved with time.The device as tested, provided results the are more dramatic than similar technologies previously evaluated.

## Estimated Gasoline Saving Grid

| <b>Gasoline Weekly</b> | <b>Gasoline Annually</b> | <b>Saving 20%</b> |
|------------------------|--------------------------|-------------------|
| \$50.00                | \$2600.00                | \$520.00          |
| \$100.00               | \$5200.00                | \$1040.00         |
| \$150.00               | \$7800.00                | \$1560.00         |
| \$200.00               | \$10400.00               | \$2080.00         |
| \$500.00               | \$26000.00               | \$5200.00         |
| \$1000.00              | \$52000.00               | \$10400.00        |
| \$2000.00              | \$104000.00              | \$20800.00        |
| \$3000.00              | \$156000.00              | \$31200.00        |

## The Undisputed Leader

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### The Undisputed Leader

MTECH by Moletech is the world leader in Molecule Reaction Technology.

MTECH has undergone the most stringent test procedures.

Research and development for all global markets is on-going.

MTECH is the fore-runner in the race to save fuel and reduce exhaust gas emissions.

Molecule Reaction Technology reduces the level of Hydrocarbon, Carbon Monoxide and NOx (Nitrogen Oxides) output, which are the harmful emission pollutants.

We deliver these savings to petrol / gasoline, diesel and LPG.

## Lowering Greenhouse Gases

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MTECH by Moletech Fuel Saver has been tested by an approved USA EPA facility.

During these comprehensive procedures, the test vehicle showed that green house gases were lowered, authenticating our contribution as carbon friendly.

## Deaths Caused by Pollutants

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Air Pollution death toll is higher than fatalities from road accidents.

There are many illnesses and health issues linked to air quality.

Each year a growing number of deaths are linked to air quality.

The long term effects of air-borne toxins are causes of cancer.

Globally many health departments are challenged with increasing numbers of air related illnesses.

## We are doing our part

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If every American vehicle had our system installed there would be a substantial decrease in greenhouse gases.

For every vehicle per annum the average greenhouse gases that are dumped in the atmosphere are substantial.

Visit our website and read the reports that are setting us apart from other devices.

Visit [www.moletech.us](http://www.moletech.us) and go to reports, the specific report is issued by Murdoch University in Western Australia.

## FAQ's

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### 1. How much does the Mtech Fuel Saver cost?

The cost of the product varies according to the vehicle's engine capacity and fuel tank capacity.

### 2. How does the Mtech Fuel Saver produce more negative oxygen?

We use Nano Negative Ion technology which is researched and developed by ITRI (Industrial Technology Research Institute, Taiwan Government). The Negative Ion releases a negative electric charge in the oxygen molecule and activates it. Institute tests have shown that our Fuel Saver can increase the inhalant amount of oxygen by 20%.

### 3. What material is used to produce the Mtech Fuel Saver?

Aluminum alloys, stainless steel, ceramic and magnet have been investigated. The new technology is applied best by using the ceramic.

### 4. What is the difference between the Mtech Fuel Saver and other fuel savers which use Magnet or Infrared?

Mtech Fuel Saver uses a revolutionary world leading technique called Molecular Reaction Technology. It is totally different to all other fuel saving devices around the world. We use a magnet within the petrol sensor as a temperature stabilizer only. This ensures the molecular reaction continues in freezing conditions.

### 5. Will the Mtech Fuel Saver perform if it is installed into a Diesel fuel tank that is badly contaminated with sludge or muddy water?

Many contaminants can reduce the performance of the Fuel Saver. We recommend that the tank be cleaned prior to installation to achieve best results.

## FAQ's

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### **6. Can the Mtech Fuel Saver dissolve or remove contamination from the Diesel fuel tank or clean the fuel filter?**

Mtech cannot dissolve or remove contamination or clean a dirty fuel filter. In some cases, contamination can damage the Fuel Saver sensors. In other cases, it can cause the sludge to break down, move through the system and become trapped in the fuel filter. Best results are seen by cleaning contaminated tanks prior to installation.

### **7. What are the other benefits of installing the Mtech Fuel Saver?**

It will remove carbon build up in the engine, increase the life of the engine oil, fuel injectors, and spark plugs. By reducing the amount of unburned emissions, the life of the catalyst (catalytic converter) will be extended.

### **8. What will happen if we don't install the Mtech Air Sensor into the air intake?**

You will not receive the full benefits of increasing the inhalant amount of oxygen by 20%, which will result in a 2% to 3% loss in fuel savings.

### **9. Does the Mtech Fuel Saver rearrange the molecules of kerosene to make it more combustible?**

Yes. Mtech works on kerosene just as it does on gasoline, diesel, natural gas, and liquid propane gas (LPG).

### **10. Do I need to perform the engine rev as stated in the final procedure every time I purchase fuel?**

No. You only need to perform this procedure one time after completing the installation.

## FAQ's

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### **11. Can I double my savings by installing another Mtech Fuel Saver Kit?**

No. Although installing another kit will reduce the time taken for the molecular reaction to take affect, the amount gained is negligible and does not warrant the extra expense of a second kit.

### **12. Do I need to adjust my fuel system?**

No. You should not have to make any adjustment to see the improvement as long as the engine was well tuned prior to installation.

### **13. When can I expect results?**

Most users have felt the extra performance within 30 minutes of installation. Only in a few cases will you need to drive some distances (in some cases up to 5000 Miles) before the effects of the Fuel saver are realized. Please make sure you check your mileage before you install Mtech.

Mileage is the sum of the total distance driven divided by the amount of fuel used. Many people believe they are receiving better mileage than they actually are. We recommend you take proper readings before installing Mtech.

### **14. Why 5000 Miles?**

Poorly maintained engines and large amounts of carbon build-up can slow down the reaction of the Fuel Saver. It will however eventually become effective in time.

### **15. Do the climatic conditions make a difference?**

Yes. In winter seasons engines are run more often without the vehicle moving; icy road conditions, etc. This can affect results. However they will still proportionally improve. Proper mileage tests will confirm positive results.

## FAQ's

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### 16. Could my mileage stay the same or even decrease? Why?

Yes.

1. It is possible that your engine could temporarily decrease in mileage and increase in emissions after the initial installation. This would be due to poor maintenance, excessive carbon build-up, and is temporary. The Fuel Saver will eventually stabilize the system.
2. In vehicles that do not have computer control of the idle speed, the idle can increase by as much as 500RPM. If this occurs, please ask your mechanic to reduce the idle speed or you will not save fuel in traffic.
3. Ensure the Mtech Fuel Saver makes contact with the fuel. We have found that shortcuts have been taken during installation by dropping the Fuel Saver sensor down the filler neck. If a filter or anti-siphon device is fitted into the filler neck, the Fuel Saver sensor will not enter the fuel tank, and the fuel will not be treated.
4. Ensure the engine is well serviced and the engine oil is in good condition. Change the engine oil if necessary.
5. Any mechanical problem with the engine, in particular the fuel or lubrication system will cause the Fuel Saver to be ineffective.

### 17. Can I use Mtech Gasoline on diesel vehicles or Mtech Diesel on gasoline vehicles?

No. The diesel Fuel Saver is designed for diesel fuel and the gasoline Fuel Saver is designed for gasoline. The molecule reaction is different for each type of fuel. Installing an incorrect Fuel Saver sensor will give poor or negative results.

# MEMO

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Moletech Fuel Saver will continue to improve with time.

When the Moletech Fuel Saver is installed there is a "Molecule Reactive Environment" created in the vehicle.

The Moletech Fuel Saver will have optimum result within 30 days on newer vehicles less than 2 years old.

For vehicles older than 2 years, the optimum result can be achieved within 90 days. In the case where the vehicle is older than 10 years, the Moletech Fuel Saver will continue to improve performance for up to 12 months. This is due to the removal process of the carbon build within the engine, and is different on a case by case due to distance traveled, age of vehicle and current driving habits including distance and average speed after Moletech is installed.

## Mtech Satisfaction Guarantee

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### 100% Money Back Guarantee

If you do not experience fuel savings, increased horsepower or improved performance within 90 days of having your Moletech Fuel Saver installed, please see terms and conditions on warranty registration card.

