

Manufactured to a precise, advanced formula to promote a positive reaction during the combustion process.

INSTRUCTIONS FOR USE
The logical answer to enhance fuel combustion, and reduce carbon build up.
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The logical answer to enhance fuel combustion, and lower carbon emissions.

Manufactured in the UK.
Distributed Internationally. Sold Globally.



Advanced Formula
Cleaner Combustion
Reduced Emissions
Improved Energy & Fuel Efficiency
Maintain & Rejuvenate Engine Systems
Worldwide & UK Pending

Developed to enhance fuel combustion for all Hydrocarbon Fuels

FITTING AND INSTALLATION INSTRUCTIONS

Congratulations on purchasing a FUELOGICAL product. You are now part of the FUELOGICAL COMMUNITY, where Reduced EMISSIONS, Better PERFORMANCE and Improved ECONOMY are essential parts of the managing and maintaining of internal and external combustion engines.

FUELOGICAL systems are used in a wide variety of applications, including;

Cars, Motorcycles, Vans, Plant & Machinery, Commercial Vehicles, Farm Machinery, Marine Applications, Outboard Engines, Lawnmowers and all Gardening Equipment, Aviation, Oil Boilers, and any fuel-driven application.

They provide enhanced combustion for all hydrocarbon and fossil fuels, including Petrol, Diesel, Gas Oil, LPG & Natural Gas (in-line system only), Heavy Oil, Biofuels, kerosene, Paraffin, and any other fossil fuel used.

1 IMPORTANT INFORMATION

The fitting and installation of a FUELOGICAL Fuel Treatment Additive System is very simple in most cases.

Please always remember that fuel is hazardous and safety precautions must always be taken.

There are rare occasions in some very modern vehicles in which fitting is less simple, usually in-tank systems. Therefore, read these instructions before fitting a FUELOGICAL product and installation. If there is any doubt in the fitting procedure, use a suitably qualified technician or competent mechanic to carry out the work.

POSSIBLE HEALTH HAZARD

Fuel Catalysts contain elements that can potentially cause health issues if repeated and prolonged contact is made with skin. Therefore, even with one-off or occasional handling we advise:
Always wear gloves when handling or wash hands immediately afterwards.



nugget drop into the tank. Repeat the installation process until the desired amount of nuggets are installed.

You may also use other forms of installation tools or apparatus to push the nuggets into the tank if it allows the filler flap to open, as with a fuel pump nozzle. The 'FUELOGICAL application device' can also be used and purchased separately and used by our registered installers, if you require, but it is not essential. For filler caps and necks where no filler flap is present the nuggets will simply fall into the tank.

Adding a FUELOGICAL nugget directly to the fuel tank, known as an in-tank application, is simple in most cases for, cars, vans, trucks, lawnmowers, marine outboards, etc. However, there can be exceptions, and these instructions must be read before adding or installing a FUELOGICAL product.



2 IN-TANK INSTALLATION

Remove the petrol or diesel filler cap.

Position the FUELOGICAL nugget against the filler flap that is visible when the filler cap is removed. If you are installing the nuggets at the fuel station, place or position the one nugget at a time against the filler flap. Using the fuel pump nozzle, push it against the filler flap with the nugget as you would normally to fill your vehicle with fuel. The FUELOGICAL nugget will be pushed into the filler neck and then into the fuel tank with a quick burst of fuel, usually around 1 litre of fuel at a time. You may hear the

To ensure that this will work in your particular application, it must be ensured that there are no obstructions between the fuel filler aperture and the fuel tank that would prevent the FUELOGICAL nugget/s from reaching the bottom of the tank.



In machinery applications, such as garden equipment, motorcycles, or marine outboards a visual check will often show that both the IT101 (17.5mm) and IT202 (24mm) nuggets from our range can easily be inserted into the tank at the fuel filler point.



3 IMPORTANT

Many modern DIESEL vehicles and in some cases petrol vehicles have 'anti-misfuelling' or 'anti-siphoning devices' fitted at the entrance to the filler neck to prevent misfuelling or theft of fuel. Using a fuel pump nozzle is the best option to insert the FUELOGICAL nuggets. Using a hose pipe or similar could trigger the anti-siphoning device, in this instance use the tool supplied with the vehicle to reset the filler flap or seek the assistance of a competent mechanic.

In many cars especially petrol cars with narrow fuel filler apertures, the small 17.5mm FUELOGICAL nugget catalysts should be used as they will migrate more easily to the tank. The procedure should be followed as outlined below:

a) Wait until the fuel tank level is quite low (a quarter tank or less) before fitting, which should be done at a filling station when refuelling with petrol or diesel.

b) Start by dropping a single nugget element into the filler neck,

and then flush it down into the tank with approximately 1 litre of fuel.

c) Next drop another single catalyst element into the filler neck and then flush it down into the tank with another 1 litre of fuel. Repeat this process until the desired amount of FUELOGICAL nuggets are installed.

If there is any difficulty or doubt, ask a competent mechanic to install the nuggets or fit them through the sender unit rather than the filler neck.

In some modern motorcycles, there may be delicate parts inside fuel tanks, especially exposed fuel pump terminals. If you are aware of any potential issues, then a further outer gauze should be purchased to prevent the FUELOGICAL system from touching any exposed components.

Some diesel vehicles, such as many Jaguar Land Rover diesel models, have devices to prevent inadvertent filling or theft of fuel. Inserting a long device such as a hose pipe, to insert the nuggets may trigger a 'locked neck filler', but if in doubt, use a fuel filler nozzle to insert the nuggets. If this should happen, there is a special tool supplied with the vehicle to reset the device.

4 Installing FUELOGICAL nuggets through a FUEL GAUGE 'SENDER UNIT'

(which in many modern vehicles will be integral with the fuel pump)

First, to prevent the possibility of fuel spillage, ensure the level of fuel in the tank is below the level of the sender unit. This will prevent the possibility of fuel spillage.

Next, locate the sender unit, which in a car may often be found under an inspection plate under the back seat or in the boot compartment.

Then, provided the fuel level is sufficiently low to avoid spillage, lift out the sender unit or ease it aside and drop the fuel catalyst unit into the tank so that it falls to the bottom of the tank.

Next, refit the fuel gauge sender unit ensuring fuel-tight fit.

It is essential with modern vehicles that have fuel gauge sender units integrated with fuel pumps in a swirl pot. Always ensure they reach the bottom of the tank outside the swirl pot.



Typical Sender Unit on a fuel tank

5 Installing a FUELOGICAL in-line system directly to the fuel line.

Find the position where you would like to install the in-line unit.

Cut through or remove a section of the fuel line. Connect a flexible fuel line to the removed fuel line of the vehicle and connect this to the

hose tail ends that connect directly to the in-line unit.

Ensure that the in-line unit is supported or attached to the vehicle and attach the unit's tail end to the flexible fuel line using hose clips or jubilee-style clips.

Test and run the system to ensure there are no leaks or that the connections require tightening or the in-line unit requires more support.

If you need information such as diagrams of fuel systems relevant to your particular application, ask your garage, a competent mechanic, or search for this information on the internet.

These instructions cover almost every application but if in doubt these

FUELOGICAL products MUST be fitted by a suitably qualified technician.

