

## PROTECT YOUR ENGINE FROM CARBON BUILD-UP.

The **FLASHLUBE CATCH CAN PRO** prevents carbon build-up from occurring by safely filtering out oil mist. Manufactured in Germany under licence, this innovative product is designed with unique safety valves to ensure its installation will not over pressurise the engine.



Carbon build-up



Clean EGR Valve



AUSTRALIA'S LEADING AUTOMOTIVE PARTS & ACCESSORIES INDUSTRY MAGAZINE



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# FLASHLUBE BRINGING NEW-GEN INNOVATION

## Common rail diesel engines are an attractive development in modern vehicles

Running quieter, while using less fuel and producing less emissions, common rail engines perform better than the regular mechanical injection diesel engines on almost every level.

However with the benefits of diesel powered vehicles, also inevitably comes the problems.

While more and more four wheel drivers are purchasing diesel powered vehicles and most know about how diesels work best at full operating temperatures, and about the hazards of dirty fuel, sludge and carbon build-up; they don't always know about how to best prevent the damage that these contaminants cause.

Flashlube has been working on a bringing the industry a new generation of innovative products aimed at combatting some of the issues that may arise.

### Flashlube Catch Can Pro

The Catch Can Pro is the most recent release from Flashlube in their range of products, specifically designed and manufactured with the aim of protecting modern diesel engines.

Environmental laws prevent modern engines from releasing oil mist or exhaust fumes into the atmosphere - forcing it to instead be recirculated back into the combustion chamber.

These fumes are converted into a hard carbon substance which gradually builds up around the

walls of the vehicle's EGR valve, inlet manifold, turbo bearings and intercooler, quickly causing a severe loss of power and efficiency, and potentially expensive engine damage.

This occurrence isn't exclusive to common rail engines, and there have certainly been reported instances of carbon build up leading to expensive cleaning and repair bills in petrol engines. However, diesel fuel does naturally burn much dirtier than petrol, predominantly causing an issue in common rail engines and requiring a solution for these vehicles.

Blocking the EGR is illegal and blanking plates can also cause power loss, so the Flashlube Catch Can Pro works to combat the issue by filtering out any oil mist, fumes or condensation before it has the chance to reach any engine components, effectively delivering cleaner air to the engine, reducing carbon build up in the inlet manifold, preventing intercooler contamination and slowing the corrosion of turbo bearings.

Manufactured under license in Germany, the Flashlube Catch Can Pro is compact in size and features large 19mm inlet and outlet ports to ensure easy installation.

The unit is fitted with a replaceable filter element and features pressure relief and vacuum relief safety valves to ensure installation of the unit won't over-pressurise the engine.



### Flashlube Diesel Filter

All fuel can be contaminated by any number of things, including particles of rust or dirt from the bottom of a fuel tank, or water particles that may form as a result of high humidity.

Diesel engines are particularly susceptible to this contamination, because common rail components have only very fine tolerances. Any moisture or



Dirty EGR valve



Clean EGR valve

contaminants allowed to pass through into the fuel system, can therefore potentially damage the injectors, pumps or other expensive mechanisms - and with injectors costing up to \$8,000 per set to replace, the price of repairing this damage can quickly become excessive.

Noticing this problem, Flashlube released its Diesel Filter - a 30 micron diesel pre-filter designed to minimise expensive engine damage by reducing fuel contaminants which could potentially cause blockages if allowed to pass through to the vehicle's original two to four micron filter, found in most modern diesel engines.

The Flashlube Diesel Filter is easily fitted to any common rail engine as a primary filter to clean dirty fuel before it reaches the engine's OE components. It comes complete with a 50ml bottle of Flashlube Common Rail Diesel Conditioner to help clean, lubricate and protect the common rail system, further assisting in longer component life and reduced operating costs.

The pre-filter system causes the moisture from the fuel to form droplets of water and agglomerate into a Perspex drain bowl before it has the opportunity to become harmful. The Perspex material used for the bowl allows the filter to function effectively while avoiding any damage that can occur in glass by hazards such as frost and stones.

Flashlube has also developed an extensive range of optional extra fitting kits to accompany the Diesel Filter which include the bracket and all necessary nuts and bolts needed for fitting the unit to certain engine types, as well as a fuel injection hose designed to withstand prolonged use with all fuel blends, including aggressive mixtures such as bio-diesel and ethanol fuel.

Also available are replacement filters and a number of parts including seals, drain plugs, hand primer kits and an in-dash water sensor designed to flash red when the filter's drain bowl is nearing full.

With most major vehicle manufacturer warranties offering no coverage for damage from contaminated fuel, insurance companies demanding separate risk clauses, and reports of repair bills in the tens of thousands - the Flashlube Diesel Filter system offers a relatively low cost solution to a potentially disastrous situation.

### Flashlube Diesel Conditioner

Modern diesel engines are an extremely impressive and efficient piece of technology, and are able to deliver power to a vehicle that until recently, was unattainable. A major contributing factor to this power is the high pressure placed on Common Rail Injectors.

Unfortunately, the pressure on these injectors makes them extremely intolerant to the water and dirt particles that are found in substandard diesel fuel, and effectively susceptible to potentially extensive and costly damage.

Flashlube's Common Rail Diesel Conditioner works to both clean and lubricate, effectively fighting against the formation of any gums or deposits that might build up on these injectors, as well as pistons, pumps and the upper cylinder area, leading to power loss, high fuel consumption, excessive combustion noise or an increase in emissions.

Utilising a unique formulation of synthetic base oils and additives, Diesel Conditioner is added to the tank after filling at a rate of 50ml to 50 litres of fuel to protect against corrosion, reduce smoke and emissions and extend the life of the engine and its components.

When used in conjunction with the Flashlube Diesel Filter and Catch Can Pro, Common Rail Diesel Conditioner helps to offer a comprehensive solution to alleviate many problems that arise from contamination in diesel fuel.

Flashlube's Diesel range of products is stocked at most major automotive care retailers.

For more information on these and other products, or to locate a Flashlube stockist, please visit [flashlube.com](http://flashlube.com)

