



**LS
SERIES**

SPLITFLOW

PERFORMANCE BLOW-BY OIL CATCH CAN

Stock PCV VALVE function:

The PCV (Positive Crankcase Ventilation) valve system is designed to regulate and remove fumes from the engine crankcase. It serves to minimize internal crankcase pressure build up which could cause oil leaks or seal damage. The PCV fumes end up in the intake manifold where they are burned to eliminate emissions into the atmosphere.

The PCV valve controls the amount of crankcase fumes depending on the engine's load. On full throttle opening more blow-by gases are produced and the PCV flows more oil fumes into the intake manifold. The PCV valve also operates as a check valve preventing the intake manifold gas flow from reversing fumes back into the crankcase.

Negative Effects of Stock PCV function:

Engines can accumulate oil residue inside the intake manifold, throttle body, intake ports and even the air filter during high RPM driving conditions. This could cause throttle and MAFS (mass air flow sensor) malfunction, reduced octane to the air/fuel mixture which can result in detonation and reduced engine power.

Other Factors:

Excessive carbon build-up on valves, piston, combustion chambers and spark plugs also increases the chance of detonation and power loss.

Increased emissions can possibly cause contamination of catalytic converter.

Excessive amounts of oil vapours in the intake manifold are detrimental to the engine of vehicle.

Solution:

The Autotecnica Splitflow oil catch can system is designed to clean and separate oil residues from engine crankcase. The oil residue are separated and filtered as it passes through the baffled can allowing clean air back in the inlet system of the vehicle. Very simple application, easy to fit and very effective to the vehicles performance.

The Autotecnica Splitflow can kit has specific mounting brackets supplied to suit LS1/2/3 Commodore, V6 VE Commodore (but only if the vehicle has a sports filter system and the original filter box has been removed) due to under bonnet space restriction. The Splitflow catch can system can also suitable to other application, (brackets supplied might not be suitable) some adjusting might need to be made to brackets in order to suit other vehicles application. The Splitflow system includes hose line connections and clamps.

Please Note: The Autotecnica Splitflow Oil Catch can is a performance product. When fitting this product to LS1/2/3 engines, due to alternative PCV outlet/inlet pickup points ensure the correct PCV points are selected. We highly recommend the advice of a competent motor mechanic in order to select correct PCV out/in points. This also applies when the product is fitted in other vehicle application. When servicing the Splitflow can, simply unscrew the bottom part of the can and wash out the oil residue. When re-fitting the bottom of the can tighten firmly by hand only to ensure easy future removal.

WARNING: Incorrect fitment will cause crankcase pressure build up. Ensure the above is followed in order for the product to work as indicated.



Outlet

Inlet

LS SERIES

SPLITFLOW OIL CATCHCAN

Split system
baffle & filtering
system



Includes magnetic
drain plug



LS1 BRACKET



Custom made LS1 Bracket



Splitflow Fitted on LS1 engine

1. Remove bolt number 1
2. Loosen bolt number 2, Install bracket
3. Attach earth wire to bolt number 1, tighten both bolts

Splitflow system can be
pulled apart for easier
cleaning.

Hose and Clamps Supplied.



LS2/LS3 BRACKET



Custom made LS2/LS3 Bracket



Splitflow Fitted on LS3 engine

1. Remove nut (where earth wire is located) keep earth wire in place
2. Attach tubular rod supplied to earth wire bolt and tighten
3. Fit bracket to tubular rod using washer & bolt supplied

We recommend that loctite be used on all threaded surfaces when assembling.

UNIVERSAL BRACKET



Splitflow Fitted on VE V6 engine

Note: VE V6 vehicle must
have sports filter system
& original air box removed.

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