

Pro Vent Systems

An issue that can affect the performance of late model Vehicle Diesel Engines is contamination and blockage of the inlet manifold caused by a combination of:

- Oil vapour from the CCV (closed crankcase ventilation) system which vents gas and crankcase vapours containing oil vapour from the crank case and routes it back into the intake side of the engine to burn in the combustion process.
- Soot from the EGR (Exhaust Gas Recirculation System).

These two systems have been around for many years with EGR becoming common in the mid 1970's with the introduction of Emission systems to control various exhaust gasses, mainly nitrogen oxide (NOx) from entering the atmosphere.

This becomes an issue as the oil vapour from the CCV system sticks to the insides of the intake manifold, so does the soot from the EGR system stick to the oil where it builds up to a point where it blocks the inlet manifold. With the inlet manifold being blocked from the soot build up, your vehicle will suffer considerable power loss and reduced fuel economy.

Vehicles with DPF (Diesel Particulate Filter) systems can also be adversely affected by the extra soot created when burning the oil vapour from the crankcase.

There is a lot of misleading information out there about ways of preventing soot build up from occurring. One of the most common methods is to simply blank off the EGR system. However this is illegal and severely affects how your engine operates, at best it is only a band aid solution to the problem. The ideal system would remove the oil vapour from the CCV system so that the soot from the EGR system has nothing to adhere to. Thankfully there are off the shelf products that you can purchase that do just that. One such product is the Direction-Plus™ ProVent® oil separator kits.

The ProVent® oil separator has a specifically designed oil separation element that effectively removes the oil from the CCV gases. Because the ProVent® removes the oil from the gases and stops it from entering the intake system, it solves the problem of the soot building up in the intake and restricting airflow, whilst also preventing the soot build up in the inlet manifold by removing the oil it also reduces exhaust odours and smoke.

The Direction-Plus™ ProVent® kits come with everything you need to install the ProVent® to your vehicle. These kits come with an application specific stainless steel mounting bracket for many vehicle applications off the shelf, hose specified for PCV systems and all the required fitting hardware.

Toyota Hilux N80 Direction-Plus Provent Kit



Mitsubishi Triton Blocked Inlet Manifold



Toyota 1VD-FTV Blocked Inlet Manifold



PV609DPK Hi Lux Direction-Plus Hilux ProVent Kit



JAS Listing for PoVent Kits and Filters

PV150DPK	PROVENT	PROVENT 150 FILTER DIRECTION PLUS
PV200DPK	PROVENT	PROVENT 200 FILTER DIRECTION PLUS
PV602DPK	PROVENT	PROVENT CATCHCAN KIT SUITS HOLDEN COLORADO DIRECTION PLUS
PV609DPK	PROVENT	PROVENT CATCHCAN KIT SUITS TOYOTA HI-LUX DIRECTION PLUS
PV614DPK	PROVENT	PROVENT CATCHCAN KIT SUITS TOYOTA LANDCRUISER 200 DIRECTION PLUS
PV615DPK	PROVENT	PROVENT CATCHCAN KIT SUITS TOYOTA LANDCRUISER 70 DIRECTION PLUS
PV620DPK	PROVENT	PROVENT CATCHCAN KIT SUITS TOYOTA PRADO 120 D4D DIRECTION PLUS
PV621DPK	PROVENT	PROVENT CATCHCAN KIT SUITS FORD RANGER MAZDA BT50 DIRECTION PLUS
PV622DPK	PROVENT	PROVENT CATCHCAN KIT SUITS MITSUBISHI TRITON DIRECTION PLUS
PV626DPK	PROVENT	PROVENT CATCHCAN KIT SUITS NISSAN PATROL 3.0L DIRECTION PLUS
PV628DPK	PROVENT	PROVENT CATCHCAN KIT SUITS TOYOTA HI-LUX 2.8L DIRECTION PLUS
PV630DPK	PROVENT	PROVENT CATCHCAN KIT SUITS NISSAN NAVARA NP300 DIRECTION PLUS
PV631DPK	PROVENT	PROVENT CATCHCAN KIT SUITS TOYOTA PRADO 150, 155 DIRECTION PLUS
PV638DPK	PROVENT	PROVENT CATCHCAN KIT SUITS LAND ROVER DEFENDER 110 DIRECTION PLUS
PVE150DP	PROVENT	PROVENT 150 ELEMENT DIRECTION PLUS
PVE200DP	PROVENT	PROVENT 150 ELEMENT DIRECTION PLUS