



Example of ProVent Kit for Ranger, Everest and BT-50

#### **DIRECTION-PLUS™ PROVENT® KIT CONTENTS:**

- Direction-Plus™ ProVent® oil separator
- Model-specific laser cut stainless steel bracket
- Hose and hose reducers
- Nuts, bolts and clamps
- Installation instructions

\*Contents may differ based on fitment application

#### **DIRECTION-PLUS™ PROVENT® BENEFITS:**

- Prevents oil build-up in intercoolers
- Prevents oil and soot contamination entering the clean air intake
- Excellent protection for turbocharger
- Regulates crankcase pressure
- 98% oil separation efficiency
- Keeps critical engine components clean
- Reduces exhaust smoke and odours

### **ALSO IN OUR RANGE**

#### **PRELINE-PLUS PRE-FILTER KIT**



#### **FUEL MANAGER PRE-FILTER KIT**



#### **TRANSCILL TRANSMISSION OIL COOLER KIT**



#### **TR+ THROTTLE CONTROL**



#### **ACCESSORIES**



#### **REPLACEMENT ELEMENTS**



## **PROVENT OIL SEPARATOR KIT**



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**THE FIRST LINE OF DEFENCE  
FOR YOUR ENGINE'S  
INTAKE SYSTEM**

## PROTECTION AGAINST OIL & SOOT CONTAMINATION

**Direction-Plus™ ProVent® oil separator kit** protects your diesel engine by substantially reducing the amount of oil entering the engine from blow-by gas in the crankcase ventilation system.

## WHY IS AN OIL SEPARATOR SO IMPORTANT?

The problem is compounded by modern engines fitted with exhaust gas recirculation systems (EGR) where by a proportion of the exhaust gas is routed back into the engine.

With the presence of oil from the crankcase ventilation system, the exhaust particles are collected by the oil. This combination of oil and exhaust particles from the EGR build up to a point where it blocks inlet manifolds and valves, resulting in reduced engine performance and/or failure.

The images below are typical examples of the build-up in engines not fitted with a Direction-Plus™ ProVent® system.



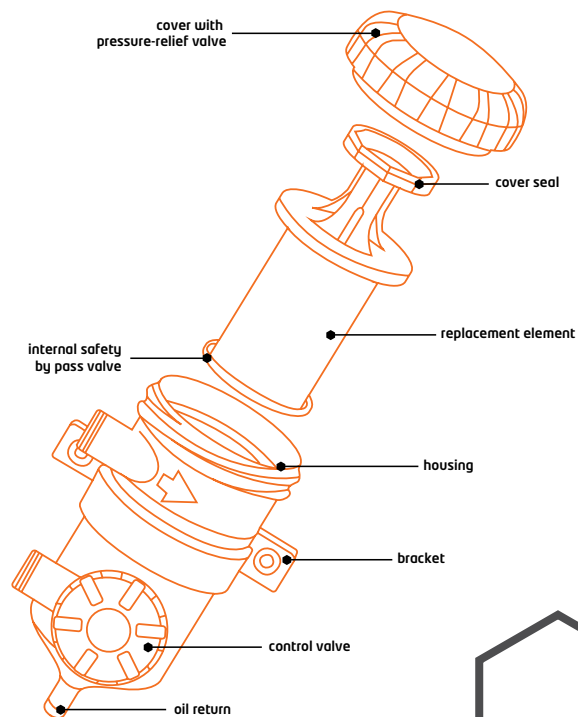
Triton inlet manifold



Land Cruiser inlet manifold

## HOW IT WORKS

**Direction-Plus™ ProVent® system** is specifically designed to **separate and redirect oil & air** from blow-by gas produced from within the crankcase which also provides the option of returning the oil back to the sump.



## ProVent 150

The **ProVent 150** is a compact crankcase ventilation unit for engines up to 200 kW and is characterised by the following advantages:

- Ultra-compact design
- Up to 150 l/min blow-by gas
- Equipped as standard with high-efficiency medium
- Pressure regulation
- Suitable for use as an open or closed CCV



## ProVent 200

The **ProVent 200** is a compact crankcase ventilation system for engines up to 250 kW and is characterised by the following advantages:

- Compact design
- Up to 200 l/min blow-by gas
- Equipped as standard with high-efficiency medium
- Integrated pressure regulation for crankcase
- Suitable for use as an open or closed CCV

For the ultimate defence against oil and soot contamination, investing in a **Direction-Plus ProVent® oil separator kit** will protect your investment 24 hours a day, 365 days a year.