

4 Breather System

4.1 Crankcase Ventilation - Overview

Introduction

Crankcase ventilation is controlled by a positive crankcase ventilation system. The primary purpose of the system is to maintain a constant state of slight depression in the crankcase under all operating conditions. The secondary purpose is to return as much oil as possible back into the sump for reuse. To achieve this the system works in two ways, these are as follows:

At local conditions (vacuum in intake manifold)

When the engine is running crankcase pressure is created due to the movement of the engine internals. This pressure is a mixture of crankcase gases -Red line- and oil vapour -Green line-. The mixture is drawn through the engine and into the oil separator pipework connection on the camshaft cover.

Some of the oil vapour now flows into the Primary of separator line -A- and into the engine sump, the remaining mixture of crankcase gases and oil vapour flows into the Cyclonic of separator -B-.

The Cyclonic of separator -B- cyclones the mixture of crankcase gases and oil vapour to separate it. The remaining oil vapour, now forming into droplets which are heavier than the crankcase gases, flow down into the sump.

The crankcase gases are now drawn into the Positive crankcase ventilation valve -C-. The Positive crankcase ventilation valve is a limiting valve designed to regulate the amount of vacuum applied to the positive crankcase ventilation system. It acts as a barrier to prevent excessive vacuum being applied to the engine internal oil seals and gaskets. Its natural (default) state is fully open.

Due to insufficient vacuum being created in the turbocharger compressor inlet line the Full load check valve -D- remains closed.

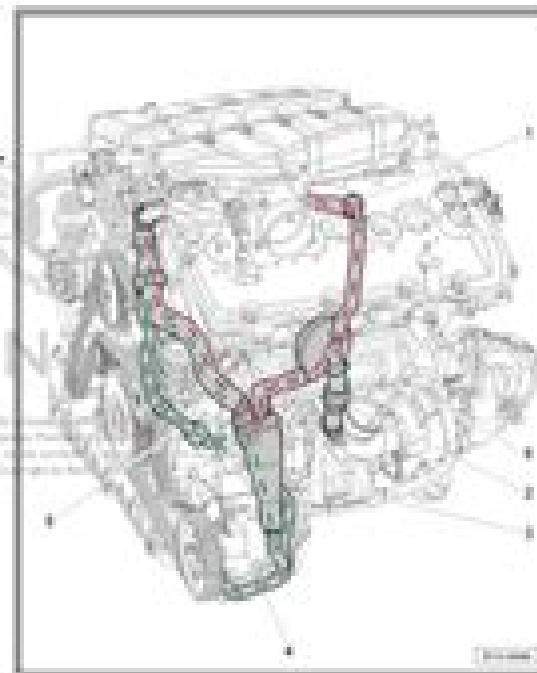
The crankcase gases are drawn through the Idle (no load) check valve -E- which is opened by vacuum created in the inlet manifold.

The crankcase gases are then drawn back into the inlet manifold to be mixed with fuel air for combustion in the combustion chamber.

Notes

- The engine shown is for illustration purposes only. Pipework may vary slightly depending on vehicle/engine specification.
- Part 2 is illustrated, Part 1 is similar.

- 1 - Idle (no load) check valve
- 2 - Full load check valve
- 3 - Cyclonic of separator
- 4 - Oil return pipe to sump
- 5 - Primary of separator line
- 6 - Positive crankcase ventilation valve



Under local conditions (local pressure in inlet manifold)

When the engine is running crankcase pressure is created due to the movement of the engine internals. This pressure is a mixture of crankcase gases -Red line- and oil vapour -Green line-. The mixture flows through the engine and into the oil separator pipework connection on the camshaft cover.

Some of the oil vapour now flows into the Primary of separator line -A- and into the engine sump, the remaining mixture of crankcase gases and oil vapour flows into the Cyclonic of separator -B-.

The Cyclonic of separator -B- cyclones the mixture of crankcase gases and oil vapour to separate it. The remaining oil vapour, now forming into droplets which are heavier than the crankcase gases, flow down into the sump.

The crankcase gases are now drawn into the Positive crankcase ventilation valve -C-. The turbocharger which is now creating local pressure in the intake manifold now forms a depression in the turbocharger compressor inlet line.

The vacuum created in the turbocharger compressor inlet line opens the Full load check valve -D-.

The air state in the inlet manifold changes from vacuum to a positive pressure, this closes the Idle (no load) check valve -E-.

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