

## 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.

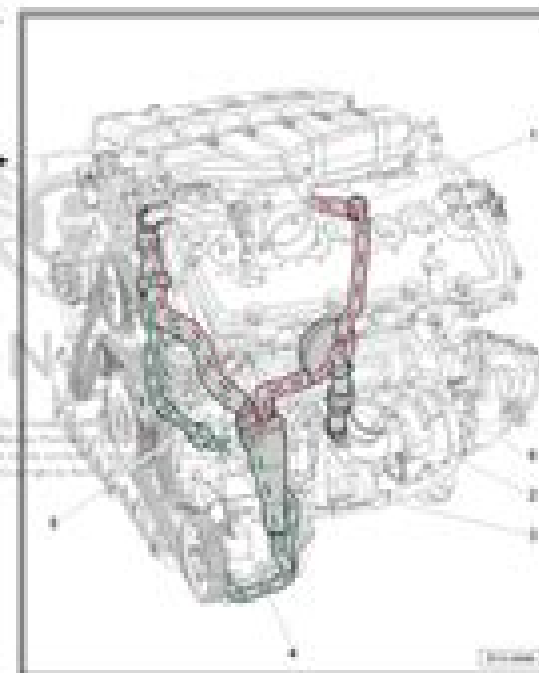
The crankcase gases are drawn through the Idle (no load) check valve (E) which is opened by vacuum created in the inlet manifold.

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.

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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).

# Bentley Gtc Instruction Manual

**Wenbin Ji**



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### **Table of Contents Bentley Gtc Instruction Manual**

1. Understanding the eBook Bentley Gtc Instruction Manual
  - The Rise of Digital Reading Bentley Gtc Instruction Manual
  - Advantages of eBooks Over Traditional Books
2. Identifying Bentley Gtc Instruction Manual
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Bentley Gtc Instruction Manual
  - User-Friendly Interface
4. Exploring eBook Recommendations from Bentley Gtc Instruction Manual
  - Personalized Recommendations
  - Bentley Gtc Instruction Manual User Reviews and Ratings

- Bentley Gtc Instruction Manual and Bestseller Lists
- 5. Accessing Bentley Gtc Instruction Manual Free and Paid eBooks
  - Bentley Gtc Instruction Manual Public Domain eBooks
  - Bentley Gtc Instruction Manual eBook Subscription Services
  - Bentley Gtc Instruction Manual Budget-Friendly Options
- 6. Navigating Bentley Gtc Instruction Manual eBook Formats
  - ePub, PDF, MOBI, and More
  - Bentley Gtc Instruction Manual Compatibility with Devices
  - Bentley Gtc Instruction Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Bentley Gtc Instruction Manual
  - Highlighting and Note-Taking Bentley Gtc Instruction Manual
  - Interactive Elements Bentley Gtc Instruction Manual
- 8. Staying Engaged with Bentley Gtc Instruction Manual
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Bentley Gtc Instruction Manual
- 9. Balancing eBooks and Physical Books Bentley Gtc Instruction Manual
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Bentley Gtc Instruction Manual
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Bentley Gtc Instruction Manual
  - Setting Reading Goals Bentley Gtc Instruction Manual
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Bentley Gtc Instruction Manual
  - Fact-Checking eBook Content of Bentley Gtc Instruction Manual
  - Distinguishing Credible Sources

13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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web the daily flow 8 liters x 3 24 liters 30 liters x 1 30 liters the daily flow 54 liters per day on site estimating this method is similar to on site measurement except that the following tables are used to estimate quantities instead of measuring the capacity of

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web purpose this document describes general and specific procedures methods and considerations to be used and observed when conducting wastewater flow measurement scope application the procedures contained in this document are to be used by field personnel when conducting wastewater flow measurement

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web jan 19 2023 this manual presents standard procedures for national pollutant discharge elimination system inspections of wastewater treatment plants pretreatment facilities and other sites