

# GENERAL DESCRIPTION

Engines with type designations D1 and MD1 are one-cylinder, four-stroke Diesel engines with overhead valves. The total capacity is 445 c.c.

Engines with type designation D2 and MD2 are two-cylinder, four-stroke Diesel engines with overhead valves. The total capacity is 890 c.c.

MD1 and MD2 are marine Diesel engines. D1 and D2 are industrial Diesel engines. The combustion chambers in the engines are designed for direct fuel injection, this resulting in low fuel consumption, smooth running and immediate starting.

The engines are fitted with a manual or electric starter. A decompression device on the rocker arm cover facilitates starting.

The marine engines are sea-water cooled and the industrial engines are fitted with a cellular type radiator. A thermostat maintains the operating temperature of the engine automatically within the correct values.

The fuel system includes a filter with a replaceable element and is thus well protected from running interruptions. D2 and MD2 units are fitted with a feed pump.

Engine lubrication is through a pressure system where an oil pump supplies lubricating oil to all the points in the correct quantities at different speeds. The D2 and MD2 are fitted with a full flow oil filter. The big-end bearing shells are replaceable and are accessible through the oil sump crankcase covers. Major repair work can also be carried out through these covers.

The engines have closed circuit crankcase breathing and this prevents crankcase gases from getting out into the engine compartment. This device consists of a filter with connections and an oil trap located in the space above the valve tappets. Crankcase gases are then sucked directly into the engine induction manifold and into the cylinders.

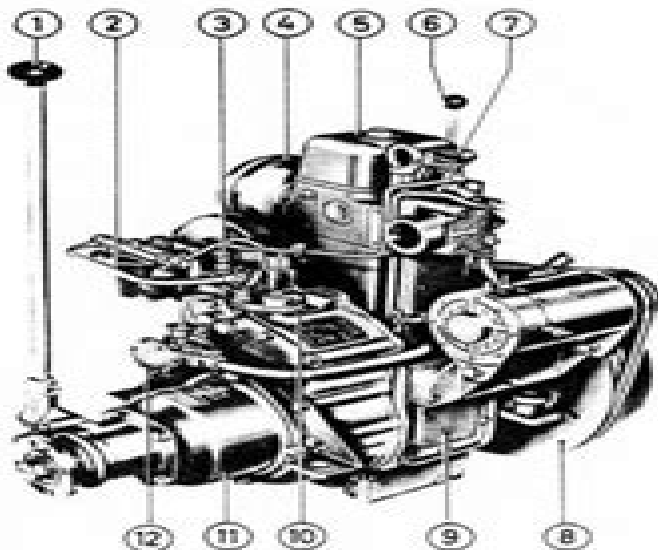


Fig 1. MD1 engine

- |                        |                             |
|------------------------|-----------------------------|
| 1 Control lever        | 7 Injector                  |
| 2 Fuel filter          | 8 Flywheel                  |
| 3 Fuel injection pump  | 9 Crankcase cover           |
| 4 Air cleaner          | 10 Control arm              |
| 5 Rocker arm cover     | 11 Reduction - reverse gear |
| 6 Decompression device | 12 Sea-water pump           |



Fig 2. D1 engine

- |                       |            |
|-----------------------|------------|
| 1 Control arm         | 5 Radiator |
| 2 Fuel injection pump | 6 Flywheel |
| 3 Injector            | 7 Oil plug |
| 4 Rocker arm cover    |            |

# Volvo Penta Md1 Md2 D1 D2 Diesel Engine Workshop Manual

**Marine Diesel GM**



**Volvo Penta Md1 Md2 D1 D2 Diesel Engine Workshop Manual:**

VOLVO PENTA MD5A MARINE DIESEL ENGINE Albin,2014-03-01      VOLVO PENTA MD2010, MD2020, MD2030, MD2040 Volvo Penta,2014-03-02      **VOLVO Penta Workshop Manual** ,1986      VOLVO Penta Workshop Manual ,1986  
VOLVO PENTA MD 11C, C, MD 17C, D Volvo Penta,2014-03-01      **VOLVO PENTA MD 5** Volvo Penta,2015-04-13  
Volvo Penta Service and Overhaul Manual A. T. Burgess,1994      **Volvo Penta MD2010, MD2020, MD2030, MD2040**  
N N,2012-05 Workshop Manual for Volvo Penta Marine Engines MD2010 MD2020 MD2030 MD2040      Volvo Penta MD5A Marine Diesel Engine N N,2012-05 Reprint of the Workshop Manual of the well known Volvo Penta MD5A Marine Diesel Engine  
Volvo Penta MD 11C, C, MD 17C, D N N,2012-05 Reprint of the official Instruction Book about VOLVO PENTA Marine Engines Type MD 11C C MD 17C and D      **Workshop Manual** Volvo Penta (Firm),1970      **Lister-Petter Series AC1W Dieselite Marine Engine** Marine Diesel GM,2014-12-08 The Workshop Manual including a Spare Parts List for the popular Marine Diesel Engine Lister Petter AC1W      Workshop Manual Volvo Penta (Firm),1970      **Service Mannual for Volvo-Penta Diesel Engines** Volvo Penta (Firm). Technical Publications Department,1960\* Service manual for automotive version of D67C engine fitted in L485 truck      **Installation Handbook** Volvo Penta (Firm),1969\*      *Workshop Manual* Peugeot,1974      **Volvo S40 and V50 Diesel Owner's Workshop Manual, 07-13** Chris Randall,2016-10      **Volvo Penta Service & Overhaul Manual** Alan T. Burgess,1976      **Workshop Manual for the Rootes Diesel Engines** Commer Cars Ltd,1966      *GM Diesel Engine Owners Workshop Manual* Matthew Minter,1987

This book delves into Volvo Penta Md1 Md2 D1 D2 Diesel Engine Workshop Manual. Volvo Penta Md1 Md2 D1 D2 Diesel Engine Workshop Manual is a vital topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Volvo Penta Md1 Md2 D1 D2 Diesel Engine Workshop Manual, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
    - Chapter 1: Introduction to Volvo Penta Md1 Md2 D1 D2 Diesel Engine Workshop Manual
    - Chapter 2: Essential Elements of Volvo Penta Md1 Md2 D1 D2 Diesel Engine Workshop Manual
    - Chapter 3: Volvo Penta Md1 Md2 D1 D2 Diesel Engine Workshop Manual in Everyday Life
    - Chapter 4: Volvo Penta Md1 Md2 D1 D2 Diesel Engine Workshop Manual in Specific Contexts
    - Chapter 5: Conclusion
  2. In chapter 1, this book will provide an overview of Volvo Penta Md1 Md2 D1 D2 Diesel Engine Workshop Manual. The first chapter will explore what Volvo Penta Md1 Md2 D1 D2 Diesel Engine Workshop Manual is, why Volvo Penta Md1 Md2 D1 D2 Diesel Engine Workshop Manual is vital, and how to effectively learn about Volvo Penta Md1 Md2 D1 D2 Diesel Engine Workshop Manual.
  3. In chapter 2, this book will delve into the foundational concepts of Volvo Penta Md1 Md2 D1 D2 Diesel Engine Workshop Manual. This chapter will elucidate the essential principles that need to be understood to grasp Volvo Penta Md1 Md2 D1 D2 Diesel Engine Workshop Manual in its entirety.
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  6. In chapter 5, the author will draw a conclusion about Volvo Penta Md1 Md2 D1 D2 Diesel Engine Workshop Manual. This chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Volvo Penta Md1 Md2 D1 D2 Diesel Engine Workshop Manual.

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