

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.

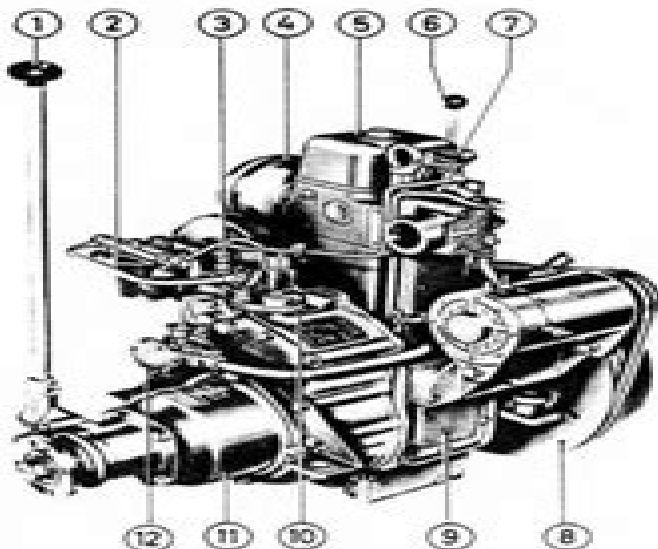


Fig 1. MD1 engine

- | | |
|------------------------|-----------------------------|
| 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 |

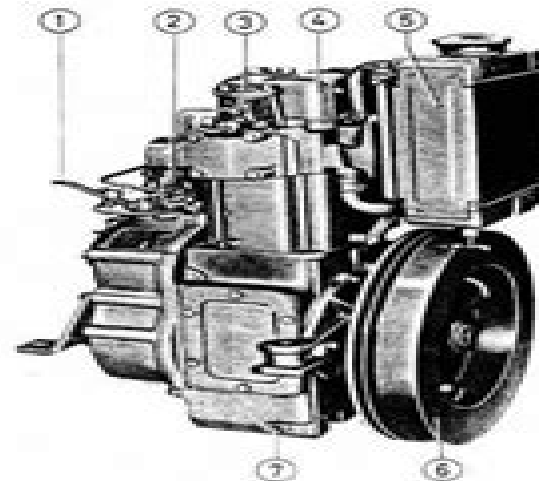


Fig 2. D1 engine

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

Volvo Penta Diesel Engine D1 Md1 D2 Md2 Workshop Manual

Albin



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Table of Contents Volvo Penta Diesel Engine D1 Md1 D2 Md2 Workshop Manual

1. Understanding the eBook Volvo Penta Diesel Engine D1 Md1 D2 Md2 Workshop Manual
 - The Rise of Digital Reading Volvo Penta Diesel Engine D1 Md1 D2 Md2 Workshop Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Volvo Penta Diesel Engine D1 Md1 D2 Md2 Workshop 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 Volvo Penta Diesel Engine D1 Md1 D2 Md2 Workshop Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Volvo Penta Diesel Engine D1 Md1 D2 Md2 Workshop Manual
 - Personalized Recommendations
 - Volvo Penta Diesel Engine D1 Md1 D2 Md2 Workshop Manual User Reviews and Ratings
 - Volvo Penta Diesel Engine D1 Md1 D2 Md2 Workshop Manual and Bestseller Lists
5. Accessing Volvo Penta Diesel Engine D1 Md1 D2 Md2 Workshop Manual Free and Paid eBooks
 - Volvo Penta Diesel Engine D1 Md1 D2 Md2 Workshop Manual Public Domain eBooks
 - Volvo Penta Diesel Engine D1 Md1 D2 Md2 Workshop Manual eBook Subscription Services
 - Volvo Penta Diesel Engine D1 Md1 D2 Md2 Workshop Manual Budget-Friendly Options
6. Navigating Volvo Penta Diesel Engine D1 Md1 D2 Md2 Workshop Manual eBook Formats

- ePub, PDF, MOBI, and More
 - Volvo Penta Diesel Engine D1 Md1 D2 Md2 Workshop Manual Compatibility with Devices
 - Volvo Penta Diesel Engine D1 Md1 D2 Md2 Workshop Manual Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Volvo Penta Diesel Engine D1 Md1 D2 Md2 Workshop Manual
 - Highlighting and Note-Taking Volvo Penta Diesel Engine D1 Md1 D2 Md2 Workshop Manual
 - Interactive Elements Volvo Penta Diesel Engine D1 Md1 D2 Md2 Workshop Manual
 8. Staying Engaged with Volvo Penta Diesel Engine D1 Md1 D2 Md2 Workshop Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Volvo Penta Diesel Engine D1 Md1 D2 Md2 Workshop Manual
 9. Balancing eBooks and Physical Books Volvo Penta Diesel Engine D1 Md1 D2 Md2 Workshop Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Volvo Penta Diesel Engine D1 Md1 D2 Md2 Workshop Manual
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Volvo Penta Diesel Engine D1 Md1 D2 Md2 Workshop Manual
 - Setting Reading Goals Volvo Penta Diesel Engine D1 Md1 D2 Md2 Workshop Manual
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Volvo Penta Diesel Engine D1 Md1 D2 Md2 Workshop Manual
 - Fact-Checking eBook Content of Volvo Penta Diesel Engine D1 Md1 D2 Md2 Workshop 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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