

# 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.

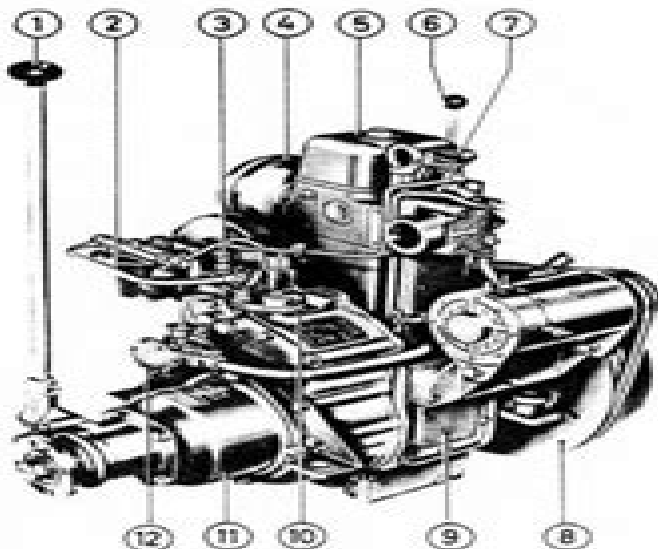


Fig 1. MD1 engine

- |                        |                             |
|------------------------|-----------------------------|
| 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 Marine D1 D2 Md1 Md2 Diesel Engine Shop Manual

**Alan T. Burgess**



## **Volvo Marine D1 D2 Md1 Md2 Diesel Engine Shop Manual:**

Volvo Penta Service and Overhaul Manual A. T. Burgess,1994      *VOLVO PENTA MD5A MARINE DIESEL ENGINE*  
Albin,2014-03-01      *VOLVO Penta Workshop Manual* ,1986      **VOLVO Penta Workshop Manual** ,1986      **VOLVO**  
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N,2012-05 Reprint of the Workshop Manual of the well known Volvo Penta MD5A Marine Diesel Engine      Installation  
Handbook Volvo Penta (Firm),1969\*      **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      **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      **FARYMANN MARINE DIESEL ENGINE**  
Farymann,2013-11-11      Volvo Penta (Seloc) Seloc,2008 This manual covers the topics that a factory service manual  
designed for factory trained mechanics and a manufacturer owner s manual designed more by lawyers than boat owners  
these days covers It will take you through the basics of maintaining and repairing your motor step by step to help you  
understand what the factory trained mechanics already know by heart Page 1 2      **Volvo Penta MD2010, MD2020,**  
**MD2030, MD2040** N N,2012-05 Workshop Manual for Volvo Penta Marine Engines MD2010 MD2020 MD2030 MD2040  
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**4TD** Yanmar,2013-11-11      **Marine Diesel Engines** Jean-Luc Pallas,2006 By means of superb photos and diagrams Pallas  
explains int simple terms the operation of a diesel engine and shows how to maintain and repair it should it break down This  
book will be an invaluable reference for when things go wrong      Diesel Engine Maintenance Training Manual Bureau of  
Ships,2015-01-15 Very complete and comprehensive manual for the service and repair of all large Marine Diesel Engines  
Reprint of the original book from 1946      **VOLVO PENTA MD 5** Volvo Penta,2015-04-13      **YANMAR MARINE DIESEL**  
**ENGINE 2TM, 3TM, 4TM** Yanmar,2013-11-11      **Volvo-Penta Stern Drives, 1992-93** Joan Coles,Clarence W.  
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available for outboard inboard stern drive and diesel engines as well as personal watercraft SELOC has been the leading  
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