

# VOLVO PENTA INBOARD DIESEL MD2020

3-cylinder, freshwater-cooled marine diesel engine  
Crankshaft power\* 13.8 kW (19 hp)

\* Crankshaft power according to ISO-8665.

The MD2020 is a marine engine of advanced design manufactured from quality components and designed to fulfil customer requirements.

## Service Life

The MD2020 is fitted with freshwater cooling as standard. This reduces internal corrosion and enables the engine to maintain a consistent and optimal working temperature under all conditions.

To avoid galvanic corrosion the engine is equipped with the unique electrical isolation between engine and transmission.

## Comfort

Smooth running with very low vibration levels results from a dynamically balanced design incorporating a flywheel of high rotating mass and high efficiency rubber isolation.

The engine's high torque provides excellent operating characteristics to aid maneuvering, particularly in confined spaces.

Additional on board comfort features are available from an extensive range of matched accessories.

## Environment

An advanced combustion system increases fuel burning efficiency to minimize noxious exhaust emissions and enhance overall enjoyment of boating. The MD2020 is certified according to BSO II, SA/V and US/EPA.

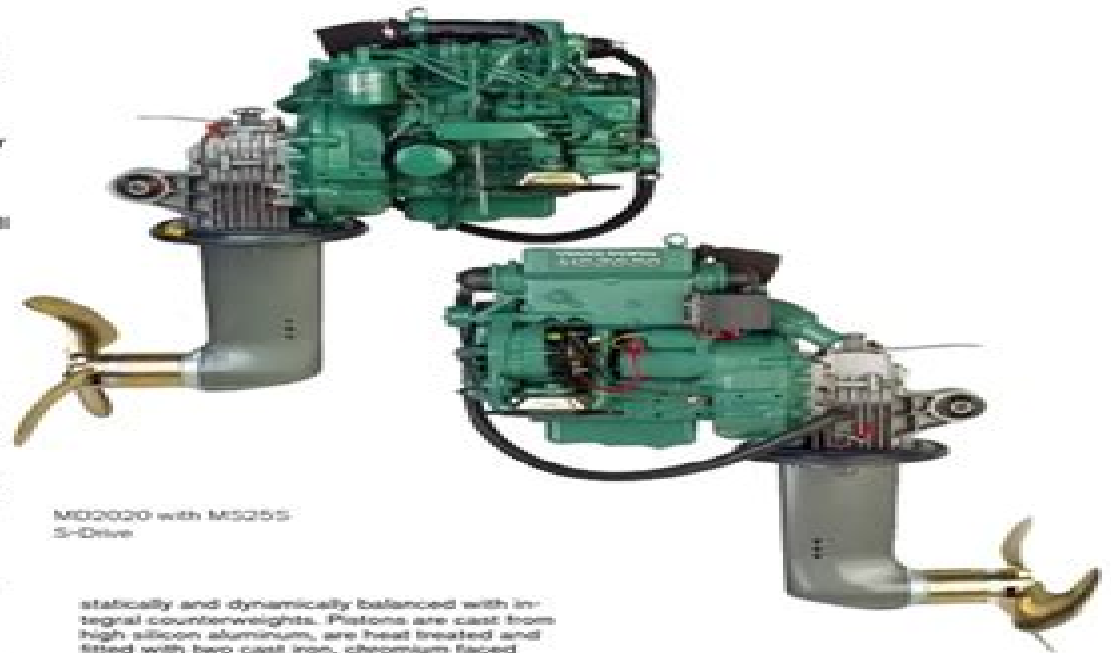
## Transmissions

Six matched transmission options are available, each built for durability and smooth running.

## Technical description:

### Engine and block

- Cylinder block and cylinder head manufactured from high grade cast iron. Crankcase features a rigid tunnel block design.
- Chrome molybdenum forged crankshaft,



MD2020 with MD205  
S-Drive

statically and dynamically balanced with integral counterweights. Pistons are cast from high silicon aluminum, are heat treated and fitted with two cast iron, chromium faced compression rings and a single oil ring.

- Replaceable, hardened valve seats
- Elastic coupling on flywheel

### Engine mounting

- Tuned front and rear cushion-type rubber mounts. Adjustable.

### Lubrication system

- Spin-on fullflow oil filter
- Separate oil scavenger pipe
- Closed circuit crankcase ventilation

### Fuel system

- Flange mounted, cam driven in-line injection pump
- Feed pump with hand primer
- Spin-on type line fuel filter

### Exhaust system

- Freshwater cooled exhaust manifold and seawater cooled exhaust elbow

### Cooling system

- Freshwater cooling system governed by thermostat
- Tubular heat exchanger with integral expansion tank
- Coolant system prepared for hot water outlet fittings
- Easily accessible sea water pump and impeller

### Electrical system

- 12V corrosion-protected electrical system
- 14V/60A marine alternator
- Charging regulator with electronic sensor for voltage drop compensation
- Glow plugs for excellent cold starting
- Electric starter motor (0.7 kW output)
- Extension cable harness with plug-in connection available in various lengths

**VOLVO  
PENTA**

# Volvo Penta Md 2020 Service Manual

**Joan Coles, Clarence W. Coles**



## **Volvo Penta Md 2020 Service Manual:**

**Volvo Penta MD2010, MD2020, MD2030, MD2040** N N, 2012-05 Workshop Manual for Volvo Penta Marine Engines  
MD2010 MD2020 MD2030 MD2040 *VOLVO PENTA MD2010, MD2020, MD2030, MD2040* Volvo Penta, 2014-03-02

VOLVO PENTA MD 5 Volvo Penta, 2015-04-13 *VOLVO PENTA MD 11C, C, MD 17C, D* Volvo Penta, 2014-03-01

Programmverzeichnis Maritimepress, 2012-05 Aktuelles Gesamtverzeichnis des Verlagsprogramms Stand Mai 2012 Unter dem Link Leseprobe kann das Gesamtverzeichnis als PDF Datei heruntergeladen werden *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 Service & Overhaul Manual** Alan T. Burgess, 1976 *Seloc's Volvo Penta Stern Drive*

Joan Coles, Clarence W. Coles, 1984 *Workshop Manual* Volvo Penta (Firm), 1970 *Workshop Manual* Volvo Penta (Firm), 1970 *Workshop Manual*, 1984 Workshop Manual, 1985 Pub no 77300424 **Volvo-Penta Stern Drives,**

**1992-93** Joan Coles, Clarence W. Coles, 1998-03 SELOC Marine maintenance and repair manuals offer the most comprehensive authoritative information available for outboard inboard stern drive and diesel engines as well as personal watercraft SELOC has been the leading source of how to information for the marine industry since 1974 Designed and written to serve the needs of the professional mechanic do it yourself boat enthusiast instructor and student these manuals are based on actual teardowns done by Chilton Marine's editors authors in our on site facility Providing complete coverage on everything from basic maintenance to engine overhaul every manual features Simple to follow step by step illustrated procedures Hundreds of exploded drawings photographs and tables Troubleshooting sections accurate specifications and wiring diagrams Recognized and used by technical trade schools as well as the U S military Covers all Single SP and Duo Prop DP models powered by Volvo 4 cylinder engines Over 750 illustrations **Service Manual for Volvo-Penta Diesel**

**Engines** Volvo Penta (Firm). Technical Publications Department, 1960\* Service manual for automotive version of D67C engine fitted in L485 truck Service Manual, 2001, 2002, 2003 Volvo Penta (Firm), 1984 Volvo Penta Stern Drive Shop Manual 2001-2004 Penton Staff, 2000-05-24 30GS 3 0L in line 4 cylinder 135 HP 43GL 4 3L V 6 160 HP 43GI 4 3L V 6 180 HP 43GXI 4 3L V 6 210 HP 50GL 5 0L V 8 220 HP 50GI 5 0L V 8 250 HP 50GXI 5 0L V 8 270 HP 57GS 5 7L V 8 225 HP 57GS 5 7L V 8 250 HP 57GSI 5 7L V 8 280 H Volvo Penta Stern Drives, 1992-03 Repair Manual Kevin M. G. Maher, 1998

Volvo S40 and V50 Diesel Owner's Workshop Manual, 07-13 Chris Randall, 2016-10 *Seloc's Volvo Penta Stern Drive* Joan Coles, Clarence Coles, 1989 **Volvo Service Manual** Volvo, Aktiebolaget, 1962

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