

# 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:**

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basics of maintaining and repairing your motor step by step to help you understand what the factory trained mechanics  
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