

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 MD35S
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 Workshop Manual

N N

A decorative graphic element consisting of a light blue horizontal bar with a rounded right end, overlaid by a semi-transparent red circular shape.

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(Firm), 1970 Workshop Manual , 1984 *Workshop Manual* , 1985 Pub no 77300424 **Seloc's Volvo Penta Stern Drive** Joan Coles, Clarence W. Coles, 1984 *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 Aquamatic** , 1976 **Volvo S40 and V50 Diesel (07-13) 07 to 62** Chris Randall, 2013-01-01 Part of the Haynes Service and Repair

Manual Series this title covers Volvo S40 and V50 diesel cars made between 2007 and 2013 *Workshop Manual Engine Unit AQ 150-150A-150B*. Volvo Penta (Firm). Technical Information Department, 1967 Aquamatic Internal Power Trim

270T , 1972 **Volvo Penta Stern Drives, 1992-03 Repair Manual** Kevin M. G. Maher, 1998 *Workshop Manual*

Engine Volvo, Peugeot, Renault, de Lorean Volvo B28, 2009 Complete Handbook for the V6 Europe Engine Peugeot Volvo Renault Alpine De Lorean and others Volvo Penta Stern Drive Shop Manual 2001-2004 Penton Staff, 2000-05-24 30GS 3

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