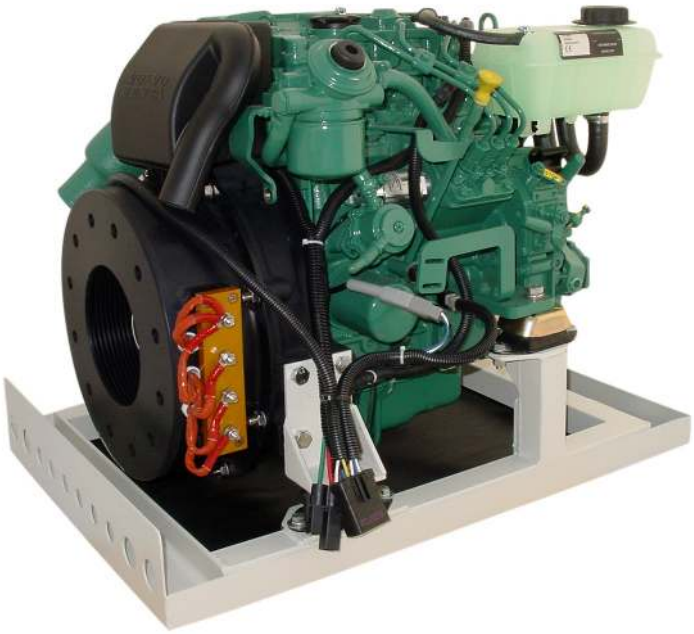
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Installation Manual

Volvo Penta - Engine



Welcome Aboard

Polar DC Generators and Volvo Penta marine engines are used all over the world today. They are used in all possible operating conditions for professional as well as leisure purposes.

Polar DC Marine is becoming a symbol of reliability, technical innovation, performance and long service life. We also believe that this is what you demand and expect of your Polar DC Marine generator.

Please read this operator's manual thoroughly and consider the advice we provide on operation and maintenance before you cast off on your voyage so that you will be ensured of fulfilling your expectations.

Installation

Marine Diesel Engines
D1-13, D1-20, D1-30
D2-40, D2-55, D2-75

Contents

Safety precautions 2

General information 5
- Conversion factors 7

Special tools 8

Installation drawings 8

Engine installation 9
- Engine inclination 9
- Flexible shaft seal 10
- Rigid shaft seal 10
- Fitting of reverse gear and S-drive 11
- S-drive insulation 11
- Rubber mounts 12
- Propeller shaft system 13
- Front end power take-off 15
- Cooling system 19
- Exhust system 24
- Engine room ventilation 26
- Soundproofing 28
- Fuel system 30

Electrical system 32
- Connection of battery cables 36

Controls 38

S-drive installation 41
- Preparation 41
- Cutting and fiberglassing of engine bed 43
- Installation of drive and engine 46
- Fitting of the rubber seal 48
- Installation of propeller 49

Oil quality and filling 50

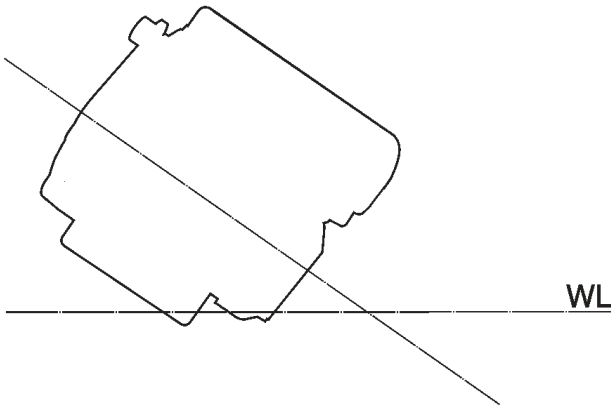
References to Service Bulletins 52

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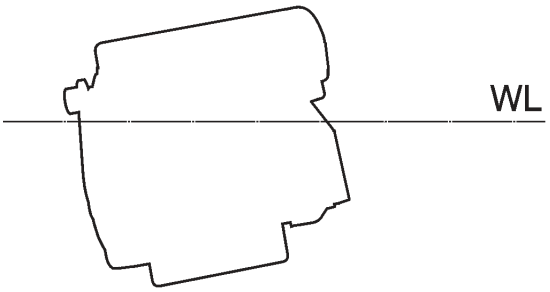
Engine installation

Engine inclination

Flywheel down



Flywheel up



Max. inclination

	Static		Under way		
	Flywheel		Flywheel		Sideways
Engine	down	up	down	up	
D1-ser.	15°	0°	25°	0°	35°
D2-40	15°	0°	25°	0°	35°
D2-55/75	15°	0°	35°	10°	35°

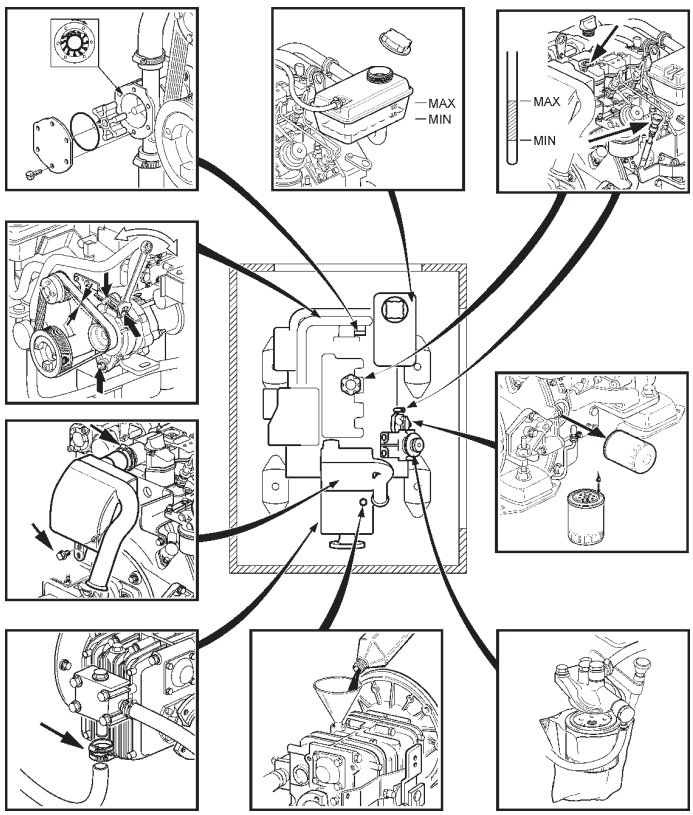
Service accessability

When you design the engine installation, always pay attention to the access needed for correct engine service. Also ensure that the complete engine can be removed without damage to the boat structure.

There must also be sufficient space for the sound proofing material.

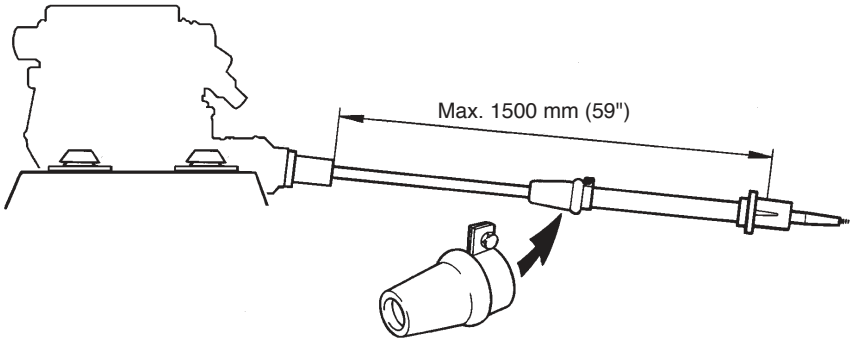
NOTE! See installation drawing for space required to lift out engine.

NOTE! Minimum recommended access two sides, front and starboard.

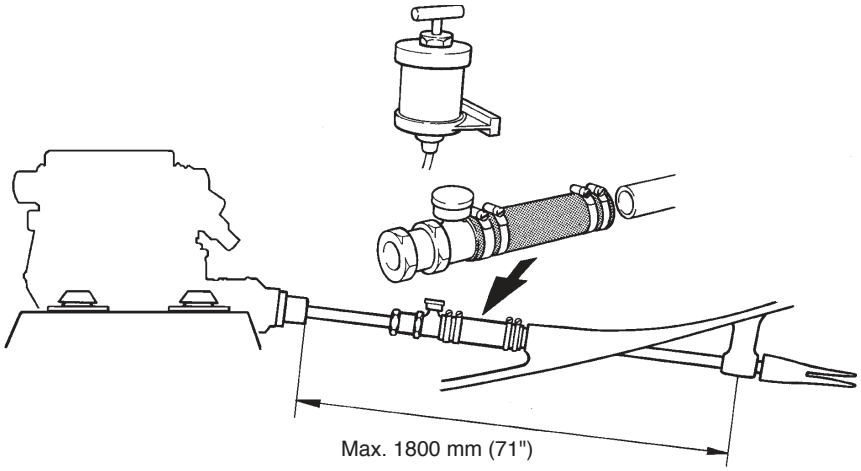


Flexible shaft seal

Volvo ´Penta water lubricated rubber type

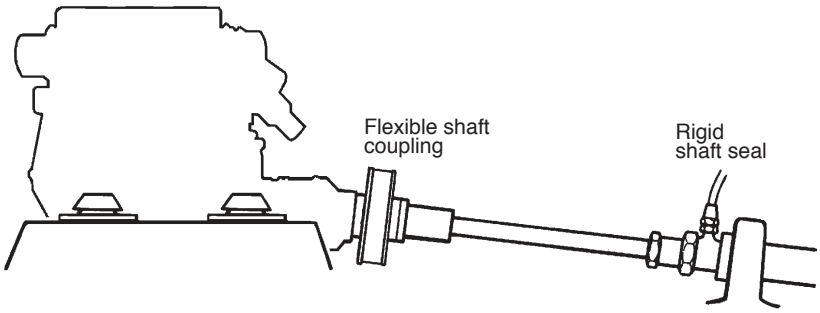


Grease lubricated shaft seal



When using a flexible shaft seal and flexible engine suspension, a flexible shaft coupling must **not** be fitted.

Rigid shaft seal



When using a rigid shaft seal and flexible engine suspension, a flexible shaft coupling must be fitted.