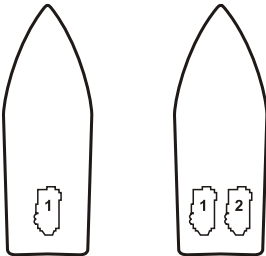


	<h1 style="margin: 0;">Service Protocol</h1> <div style="text-align: right; font-weight: bold; font-size: 1.5em; margin: 0;">VOLVO PENTA</div> <hr style="border: 0; border-top: 1px solid black; margin: 5px 0;"/> <p style="margin: 0;">Marine Diesel D4, Marine Diesel D6, Aquamatic, DPH, DPR</p>
--	---

<div style="border-bottom: 1px solid black; padding: 2px;">Vessel</div> <div style="border-bottom: 1px solid black; height: 20px;"></div> <div style="border-bottom: 1px solid black; padding: 2px;">Customer</div> <div style="border-bottom: 1px solid black; height: 20px;"></div> <div style="border-bottom: 1px solid black; height: 20px;"></div> <div style="border-bottom: 1px solid black; height: 20px;"></div> <div style="border-bottom: 1px solid black; height: 20px;"></div> <div style="border-bottom: 1px solid black; height: 20px;"></div>	
---	--

Engine Hours	Serial number Engine	Serial number Transmission	Chassis ID
Driveline #1			
Driveline #2			

☐

Warranty repairs

.....

.....

.....

☐

Campaign No.

.....

.....

.....

Total Labor Hours

.....

Name

.....

Signature

.....

Date

.....

Dealer Stamp

### Specific terms for the U.S. market

This engine is certified as being in conformity with Federal and California emission control regulations. The emissions control parts are covered by the Emission Control System Warranty. Covered parts and conditions are listed under "What is covered by the Emission Warranty" in the "Emission Control System Warranty Statement". Repairs and service covered by the warranty will be performed by an authorized Volvo Penta distributor or dealer with no charge for parts or labor, including diagnosis, using Volvo Penta parts for any part of the emission control system covered by the warranty and found defective.

Use of a service or repair facility that is not a Volvo Penta authorized distributor or dealer, or use of non-Volvo Penta emission-related components, will not void or limit coverage of the Emission Control System Warranty. If emission related components/items are included in the scheduled service, then such parts are marked in the service protocol with a diamond (♦) and the service must be performed at prescribed time intervals for compliance with the Emission Control System Warranty. For the complete warranty conditions, see the "Emission Control System Warranty Statement".

### A

Every 12 month or every 200 hours, whichever first occur			✓
Check software status	Inspect	•	<input type="checkbox"/>
Engine oil and oil filter	Replace	•	<input type="checkbox"/>
Coolant level and antifreeze mixture	Inspect	•	<input type="checkbox"/>
Drive belts	Inspect	• / o	<input type="checkbox"/>
Air Filter	Replace	• / o	<input type="checkbox"/>
Fuel pre-filter and Fuel fine filter	Replace	•	<input type="checkbox"/>
Seawater filter	Clean	• / o	<input type="checkbox"/>
Anode, protection system	Inspect	• / o	<input type="checkbox"/>
Impeller in seawater pump <sup>(1)</sup>	Inspect	• / o	<input type="checkbox"/>
Crankcase ventilation filter	Replace	• / o, ♦	<input type="checkbox"/>
Propeller shafts, lubrication	Inspect	•	<input type="checkbox"/>
Seawater Inlet	Clean	•	<input type="checkbox"/>
Transmission, oil	Replace	•	<input type="checkbox"/>
Transmission: exhaust- and u-joint bellows	Inspect	•	<input type="checkbox"/>
Bushes / shaft stubs in shield and suspension fork	Inspect	•	<input type="checkbox"/>
Oil, power steering and powertrim	Inspect	•	<input type="checkbox"/>

1) Engine version A-D: Replace every 200 hours / at least every two years.

### B

Every 24 month or every 400 hours, whichever first occur			✓
Impeller in seawater pump <sup>(1)</sup>	Replace	•	<input type="checkbox"/>
Hydraulic oil and filter (Steering Control Unit)	Replace	•	<input type="checkbox"/>
Hydraulic tie-bar oil	Inspect	•	<input type="checkbox"/>
Engine: exhaust bellow	Replace	•	<input type="checkbox"/>
Control cables, adjustment	Inspect	•	<input type="checkbox"/>

1) Applies not for engine version A-D.

**C**

Every 24 month or every 800 hours, whichever first occur			✓
Transmission: exhaust- and u-joint bellows	Replace	•	<input type="checkbox"/>

**D**

Every 48 month or every 800 hours, whichever first occur			✓
Exhaust hose	Inspect	•	<input type="checkbox"/>
Drive belts	Replace	•	<input type="checkbox"/>
Compressor, oil	Replace	•	<input type="checkbox"/>
Control cables and seals	Inspect	•	<input type="checkbox"/>
Transmission, complete <sup>(1)</sup>	Inspect	•	<input type="checkbox"/>

1) Inspect at every 1200 hours, this applies to rating 5 without a Joystick.

**E**

Every 48 month or every 2000 hours, whichever first occur			✓
Coolant	Replace	•	<input type="checkbox"/>

Service Type A-E (in accordance with Service and Maintenance manual).

Operation "Inspect" includes if necessary: cleaning, adjustment, lubrication and replace.

♦ = Emission related component/item.

• = Volvo Penta recommends that service operation is performed by a qualified workshop.

○ = Service operation could be performed by owner/operator.

**NOTICE!** Contact an authorized Volvo Penta dealer if you are uncertain about how the service operation should be performed.

**Miscellaneous**

--	--