

VOLVO PENTA

AQUAMATIC 150B/250B



The Aquamatic 150B/250B is a modern marine unit which more than satisfies extremely severe demands concerning safety, dependability, economy and durability. The powerful and compact V6 engine with its output of 150 h.p. is characterized by smooth and vibration-free running.

Because it has a high output combined with high torque, this unit is particularly suitable for large planing boats but — in addition to this — its compact dimensions also make it easy to install in small and light boats.

The engine is fitted with hydraulic valve lifters, a two-port Rochester carburetor, closed circuit crankcase ventilation and a fully water-jacketed exhaust manifold. The cooling system includes two cooling pumps, one being a circulation pump, and also thermostat-controlled water temperature for rapid engine warmup and constant operating temperature.

The model 250 outboard drive

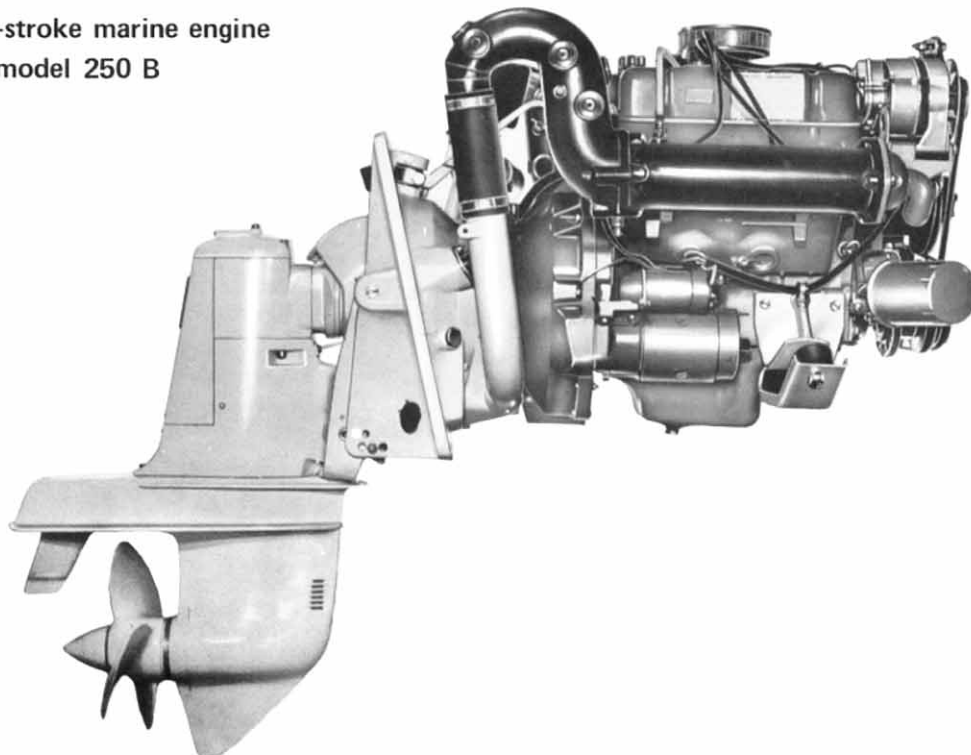
The engine and outboard drive are fitted together through one single hole in the transom through the medium of a mounting collar in which all the connections are built in.

The model 250 outboard drive embodies all the experience acquired by Volvo Penta as a pioneer in this field. The 250 drive is built completely for salt water operation and has many characteristics which are unique to Volvo Penta. The advanced design with all the control units built in provides smooth and easily cleaned surfaces. The robust construction of the drive provides full security against extensive damage resulting from unexpected and fast tilting up of the drive, caused for example by contact with underwater obstacles. The design of the retaining pawl mechanism also permits fast reversing manoeuvres at speeds up to the planing speed of the boat without the drive "kicking up".

The quiet-acting "Silent Shift" cone clutch is easy to operate. It is located above the water, in the upper gear housing. This enables the lower gear housing to be more compact and gives both the upper gears and propeller gears extremely strong dimensions. Because of this advantage and scientific tests in our test tanks the underwater part of the drive has been designed to produce minimal water resistance and freedom from cavitation.

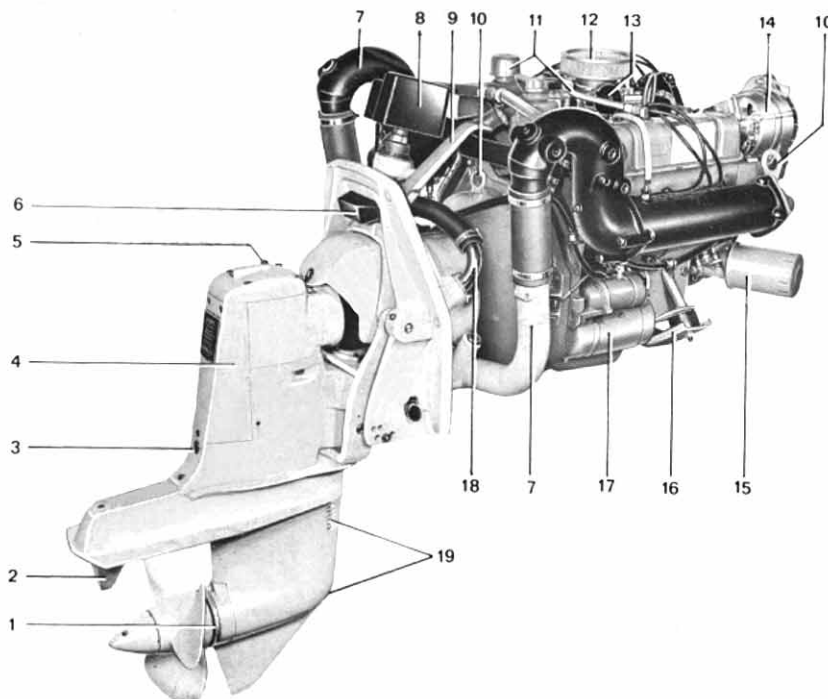
Volvo Penta V6, four-stroke marine engine
with outboard drive, model 250 B

150 h.p.



AQUAMATIC 150B/250B

1. Anti-corrosion zinc ring
2. Exhaust outlet and trimming tab
3. Oil filler
4. Casing over control units
5. Oil dipstick
6. Rubber damper for drive tip-up
7. Exhaust system with raised exhaust elbow
8. Electro-mechanical lift
9. Steering rod with connection for steering system
10. Lifting eyelet
11. Closed circuit crankcase ventilation
12. Down-draught carburetor (Rochester) with flame arrester approved by US Coast Guard
13. Automatic choke
14. Motorola alternator 12 V, 38 A
15. Spin-on full-flow oil filter
16. Front engine mounting with rubber block
17. Starter motor
18. Cooling water hose
19. Cooling water intake



DATA

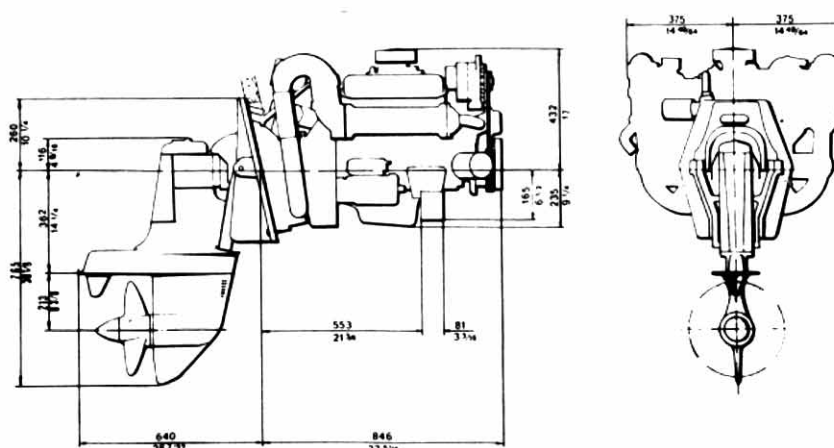


Type of operation	Four-stroke carburetor engine with overhead valves
Type designation	AQ 150B/250B
Max. output, (SAE)	150 h.p.
Max. operating speed, r.p.m.	4200
Number of cylinders	V6
Capacity, litres (cu.in.)	3.7 (225)
Bore/stroke, mm(in.)	95.25/86.36(3.75/3.40)
Outboard drive, type designation/ratio	250B/1.61:1
Total weight, kg(lb.) approx	300(660)

Standard equipment includes: Instrument panel with electric revolution counter, electric temperature gauge, warning lamps for charging and oil pressure.

All the electric cables are collected into one single harness between the engine and the instrument panel with a connector about 1.5 m (5 ft.) from the engine. This facilitates installation considerably.

DIMENSIONS DRAWING



We reserve the right to carry out modifications



AB VOLVO PENTA

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