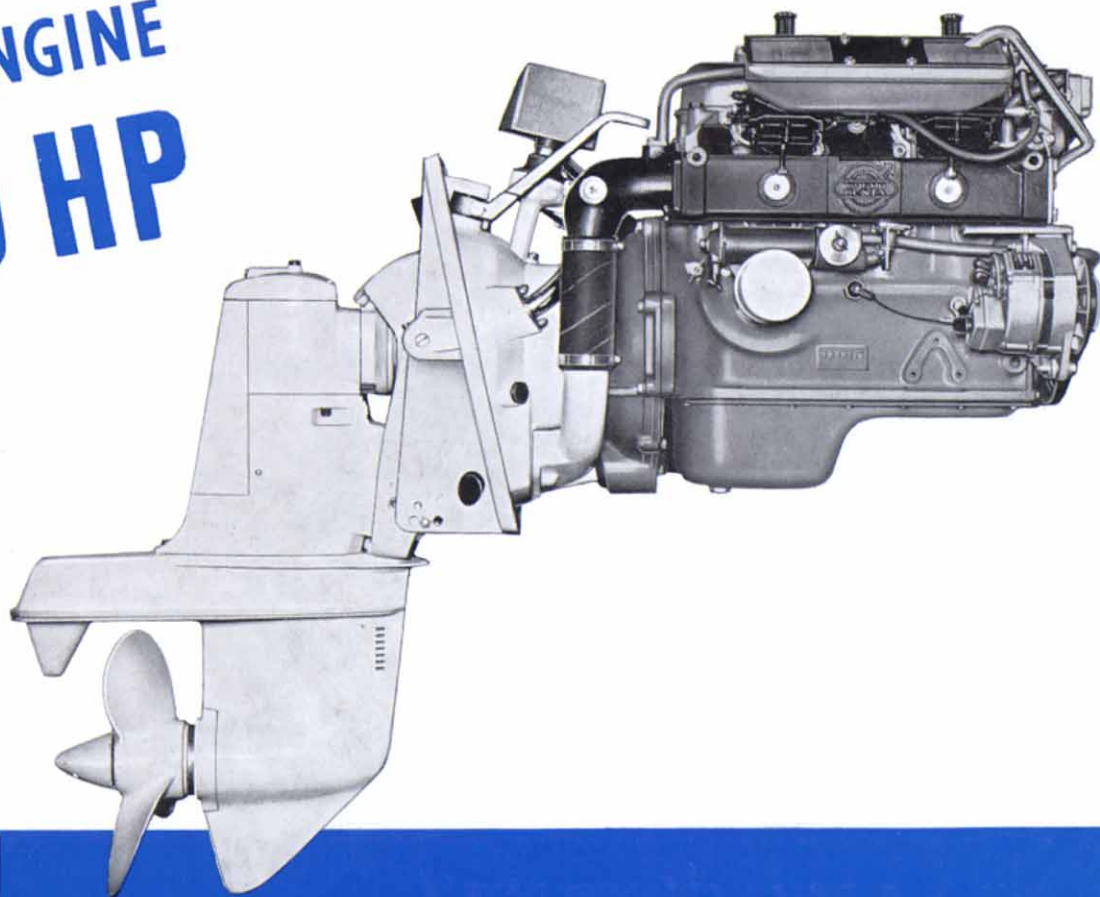


# NEW ENGINE 120 HP



## AQUAMATIC 120/200

The Aquamatic 120/200 is the latest stage in the development of the Volvo Penta Aquamatic programme. A new cylinder head, more efficient carburettors and a new induction system provide even better volumetric efficiency and this results in both a higher output as well as running economy and smooth running even at low engine speed. The 120 engine together with the model 200 outboard drive makes up one of the most developed inboard engine/outboard drive units on the market. The 120 engine is designed for maximum durability and optimum fuel economy. All component parts are made of top class material. The precision-manufactured five-bearing crankshaft ensures that the engine runs without any vibrations and also guarantees it a long life.

### A TRUE MARINE ENGINE

The whole engine is given an extra coating of transparent enamel which provides exceptionally good protection from corrosion. The marine type alternator charges the battery even at idling speed. The ignition coil and the cables

between the engine and the dashboard are moisture-proof. The starter motor and flywheel are completely enclosed to eliminate the risk of bilge water damage. The relay is completely transistorized and is practically insensitive to vibrations. A double flame trap covers both the horizontal carburettors. The water pump is made of corrosion-proof material and the hyper-effective thermostat ensures that the engine rapidly attains and maintains the correct operating temperature.

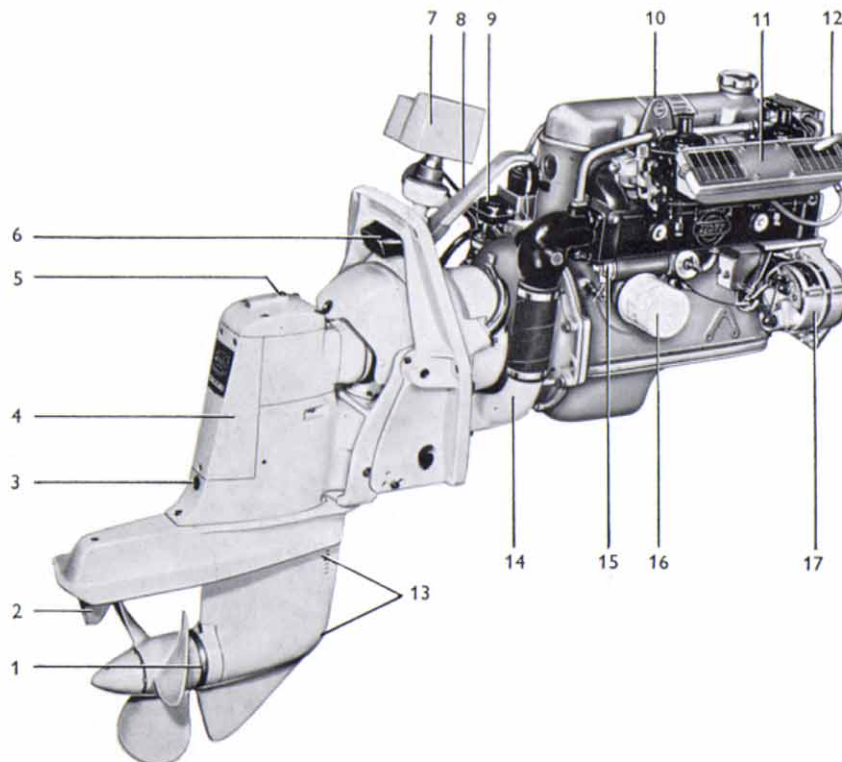
### DATA

Max. output	120 h.p. (SAE)
Type of engine	Four-stroke
Valves	Overhead
Number of cylinders	4
Capacity	1.78 litres
Bore	84.14 mm (3.313")
Stroke	80 mm (3.15")
Compression ratio	9.7:1
Total weight, approx.	225 kg (495 lb.)



## AQUAMATIC 120/200

1. Protective ring of zinc to prevent corrosion
2. Exhaust outlet and trimming fin
3. Oil filler
4. Casing for control units
5. Oil dipstick
6. Rubber damper for drive when tilted up
7. Electro-mechanical lift device
8. Steering rod with connection for rudder line
9. Fusebox
10. Lifting eyelet
11. Carburettors (Zenith Stromberg) with flame trap approved by US Coast Guard
12. Crankcase ventilation
13. Cooling water intake
14. Exhaust line
15. Cleanable oil cooler of tubular type
16. Spin-on full-flow oil filter
17. Alternator, Motorola, 12 V 38 A



## AQUAMATIC MODEL 200 OUTBOARD DRIVE

The outboard drive model 200 symbolizes the advanced position held by Volvo Penta concerning outboard drives for inboard engines. The well considered design is the result of the extensive experience accumulated by Volvo Penta in this field together with comprehensive testing both in laboratories and under practical conditions. The design of the outboard drive with its clean lines and smooth surfaces gives it an attractive appearance and also makes it easy to keep clean. The exhaust, cooling water inlet and cooling water outlet connections pass right through the drive unit so that only one hole is needed in the transom. Model 200 is fitted with the "silent shift" mechanism — a quiet-running cone clutch which has been patented by Volvo Penta.

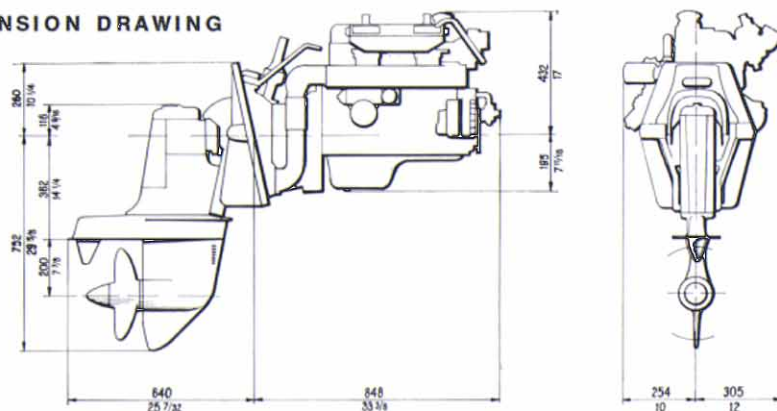
The power transmission system includes a robustly dimensioned double universal joint which requires no servicing. Standard equipment also includes an electro-mechanical lift device which raises the outboard drive to an angle of 65° and permits the boat to be run at low speed with the drive partly tilted up. The retaining pawl can be disengaged from the driver's seat to permit the outdrive to kick up if it hits an obstruction. The Model 200 is also designed for use with a 15" propeller and is available with both left and right hand rotation — a modification that can easily be carried out. An effective corrosion protector is located at the propeller.



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

All the electric cables are in the form of one single cable harness between the engine and the instrument panel with a connecting plug located about 1.5 m (5 ft.) from the engine. This system considerably facilitates installation.

### DIMENSION DRAWING



### AB VOLVO PENTA

Box 392, Göteborg 1, Sweden

Telephone 031/23 54 60

Cables: Penta

Telex: 207 55