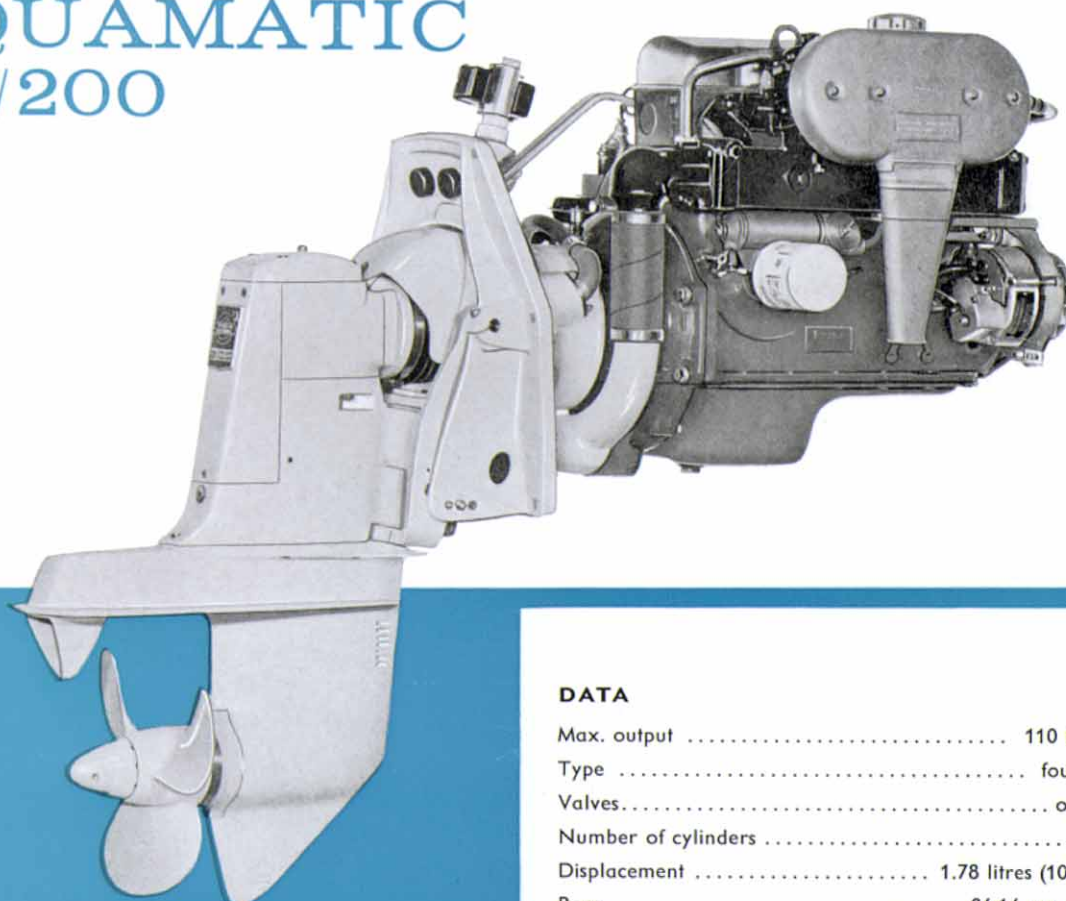




The Aquamatic 110/200 — the renowned Volvo Penta four-cylinder, four-stroke engine and a completely new outboard drive which together make up the most modern inboard/outboard unit on the market — is designed on the basis of all the extensive experience accumulated by Volvo Penta as a pioneer in the inboard engine/outboard drive concept.

There are many new technical features and those on the engine include: Horizontal carburettors with a new type of combined air cleaner/air intake silencer which dampens the intake sound, provide a lower engine profile. An alternator of 12 V 38 A, together with a fully transistorized relay ensures charging of the battery even at idling speed. The alternator, which is of spark-proof design, has fully protected slip rings and special marine surface treatment. One or more alternators can be run together with the same battery or group of batteries. A master switch is fitted on the engine. A new improved ignition coil with a moisture-proof alkyd resin cap. Sea-water pump with even greater capacity. New, even more efficient thermostat. Reduced length of exhaust system between the engine and the outboard drive to minimize output losses. New ignition switch with built-in starter switch and "radio" position whereby all the electrical equipment in the boat can be used while the engine electrical units are switched off. The Volvo Penta outboard drive Model 200 is of a completely new design with emphasis on hydrodynamic principles, this resulting in low water resistance and cavitation-free performance at high speeds. The shift cable, cooling water outlet, exhaust system and cooling water inlet are all built into the outboard drive itself, this eliminating all external connections. The engine is completely coated with clear varnish which provides good protection against corrosion.

VOLVO PENTA INBOARD ENGINE WITH OUTBOARD DRIVE AQUAMATIC 110/200



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

DATA

| | |
|---------------------------|--------------------------|
| Max. output | 110 h.p. SAE |
| Type | four-stroke |
| Valves..... | overhead |
| Number of cylinders | 4 |
| Displacement | 1.78 litres (109 cu.in.) |
| Bore | 84.14 mm (3.313") |
| Stroke | 80 mm (3.15") |
| Compression ratio | 10:1 |
| Total weight | 225 kg (496 lb.) |

All the electrical cables are combined to form one single cable harness between the engine and the instrument panel with a plug-in connector about 1.5 m (5 ft.) from the engine — this facilitates installation to a great extent.

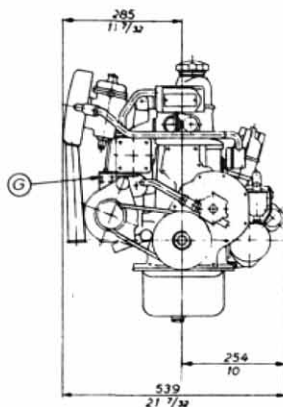
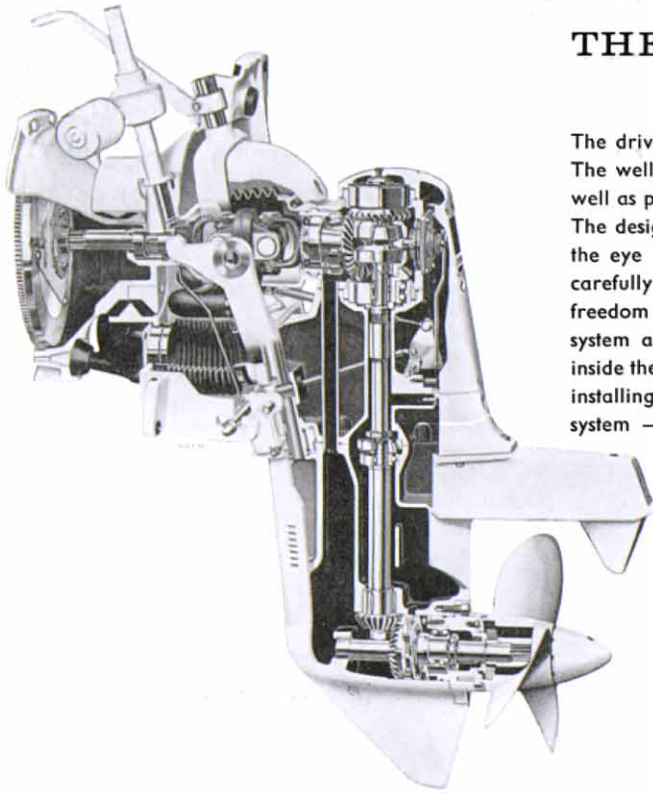
THE AQUAMATIC DRIVE MODEL 200 - a new outboard drive

The drive Model 200 embodies all the latest advances made by Volvo Penta in this range. The well thought out design is backed up by the extensive experience of Volvo Penta as well as practical testing over many years and exhaustive laboratory research.

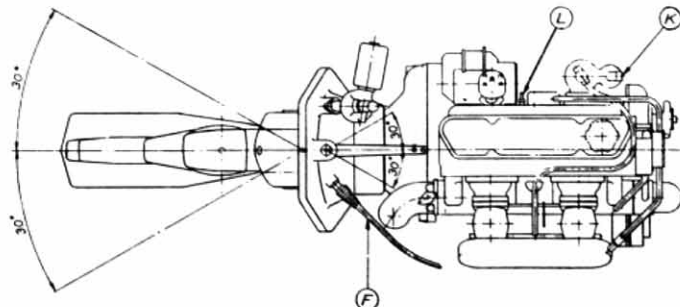
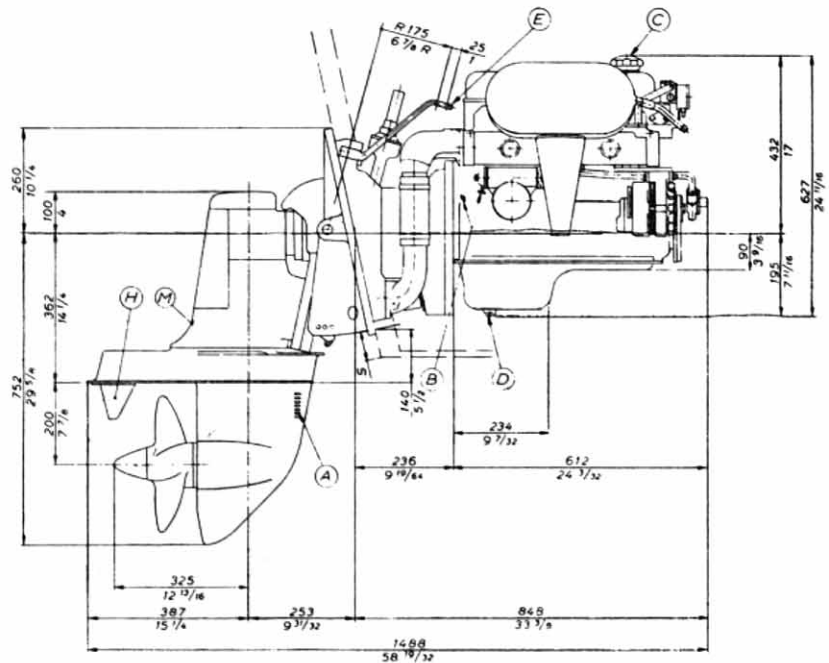
The design of the outboard drive with smooth unbroken surfaces is not only attractive to the eye but is also easy to keep clean and the design of the underwater section has been carefully developed from a hydrodynamic viewpoint to provide minimum drag and ensure freedom from cavitation even at high speeds. The exhaust outlet, the cooling water inlet system and the cooling water outlet as well as the control cable are all incorporated inside the drive — as a result of this it is only necessary to make one hole in the transom when installing. The outboard drive Model 200 is also fitted with the Silent-Shift power transmission system — the silent-operation cone clutch gear developed and patented by Volvo Penta.

The power transmission system also includes a robustly dimensioned double universal joint which requires no servicing. Standard equipment on the outboard drive also includes an electro-mechanical lift* which tips up the drive to an angle of 65° and permits running at low speed in shallow water in a partly tilted position. A locking device prevents the drive from kicking up if the throttle should be suddenly pulled back but, at the same time, ensures that it tips up should it come into contact with an underwater obstacle. The Model 200 takes propellers up to 15" diam. and is designed for both left-hand and right-hand rotation. An effective corrosion shield is located in front of the propeller.

* Operating switch with indicator light, at dashboard.



- A Water inlet
- B Water drain
- C Oil filler
- D Oil drain
- E Connection for steering cable
- F Gear shift cable
- G Throttle cable
- H Exhaust outlet
- K Connection for fuel inlet, outer diam. 5/16"
- L Oil dipstick, engine
- M Oil dipstick, outboard unit



AB VOLVO PENTA

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