

VOLVO PENTA

AQUAMATIC 130/270 T

with INTERNAL POWER TRIM



The AQ 130/270 T is the most outstandingly modern Inboard/Outboard version on the market. The well-known and well-tried outboard drive model 270 has been further developed with an Internal Power Trim which can easily be manoeuvred from the boat operator's seat irrespective of the boat speed. The Volvo Penta world-renowned 4-cylinder, 4-stroke marine engine of 130 h.p. together with the new 270 T drive thereby provides a boat power unit second to none in operation.

The engine with its drive and equipment is completely built for salt water operation under extremely hard marine running conditions and this guarantees the highest running reliability and durability.

The quiet vibration-free engine with hyper-effective intake silencer, through its high marine output and particularly low fuel consumption, is especially suitable for single installation in fast boats. Its compact dimensions when installed are specially favourable in the case of twin installations. The drive ratio has been adapted in order to utilize engine torque to its maximum. This ensures maximum tractive effort even in the economical moderate engine speed range.

Other technical advantages which are exclusive to Volvo Penta Inboard/Outboard engines.

- Particularly extensive test operations of the engine and the outboard drive in one of the most modern engine laboratories in the world and on marine test circuits guarantee unexcelled lifetime and running reliability.

- The engine is dimensioned for the utilization of full output and has stellite-flashed exhaust valves with replaceable seats and hardened intake valves. The valves are of the self-rotating type.

- The electrical system includes an alternator with a particularly high charging capacity and is completely protected from corrosion even down to the electric cable flat pin connectors.

- The outboard drive is the most powerfully dimensioned outboard drive of its type on the market and is particularly easy to manoeuvre by means of the patented cone clutch type Silent Shift together with the well-proportioned and balanced steering which makes the drive very easy to steer.

- The hydraulic system on drive 270 T is housed in the mounting collar and is fully protected against any damage, marine growth and attacks from corrosion.

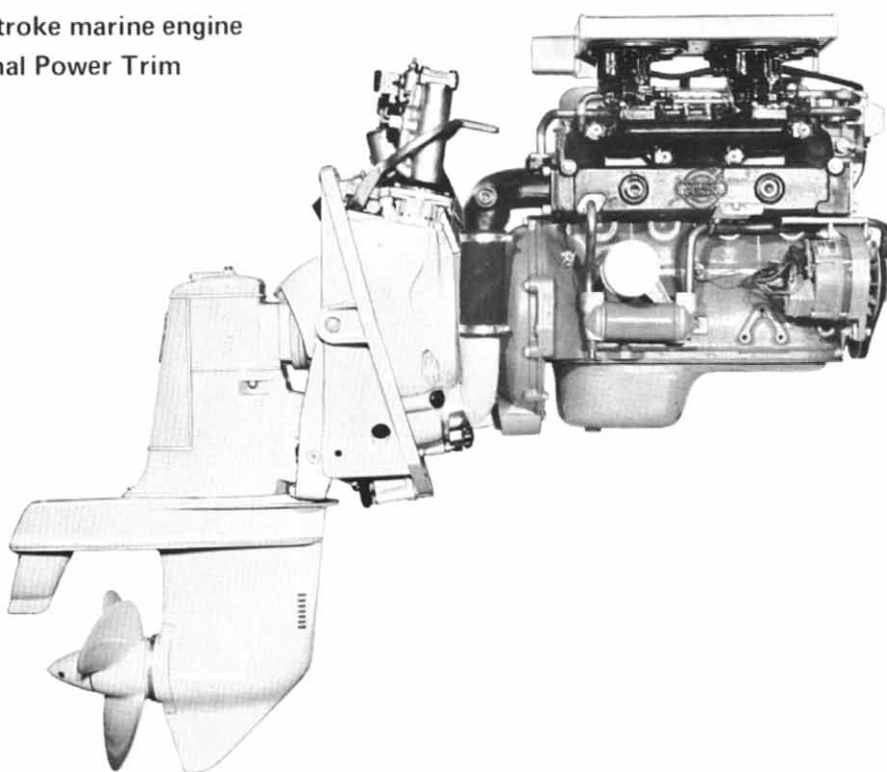
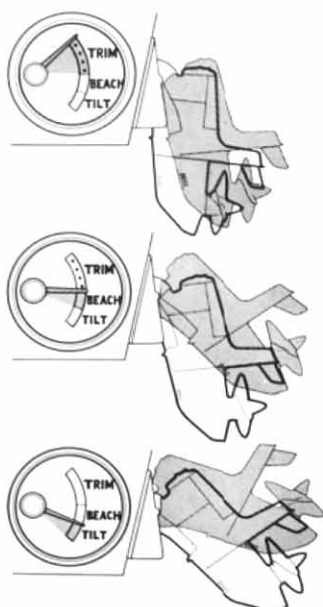
- Drive 270 T can be infinitely manoeuvred to different "Trim", "Beach" and "Tilt" positions. The "Beach" position is for running in shallow water. The "Tilt" position indicates full elevation of the drive position for launching, servicing, etc.

- Installation is made easier by the fact that the hydraulic system is delivered completely fitted in the collar.

- Cost-free 20 hours service inspections and a comprehensive factory guarantee provide full security. A well-developed service organization throughout the world with workshops with parts and specially trained personnel is always at your service wherever you are.

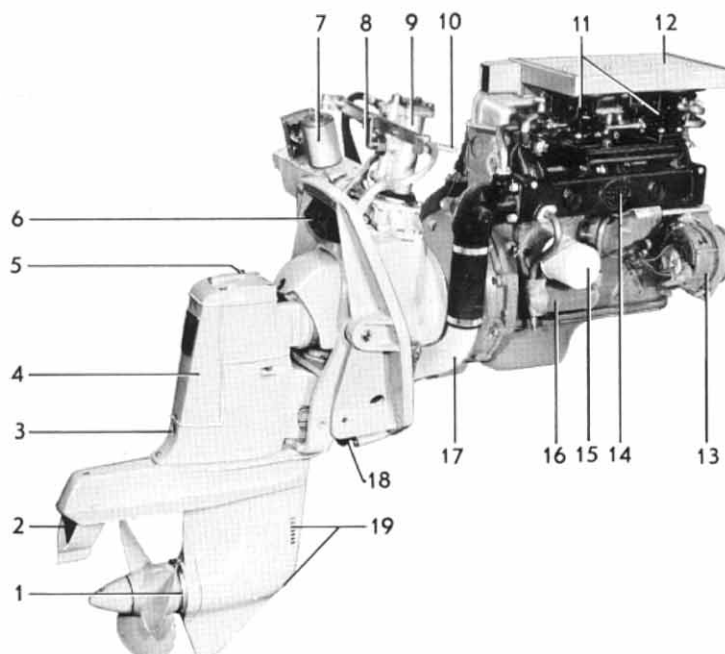
Volvo Penta four-cylinder, four-stroke marine engine
Outboard drive 270 T with Internal Power Trim

130 h.p.



AQUAMATIC 130C/270TD

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. Electric hydraulic pump
8. Lever for control cable
9. Lift cylinder
10. Steering rod with connection for steering cable
11. Down-draft carburetors (Solex, two)
12. Air intake silencer "Silent Flow" with built-in flame arresters
13. Alternator, 12V, 38A
14. Water cooled exhaust manifold
15. Spin-on full-flow oil filter
16. Cleanable oil cooler
17. Exhaust pipe
18. Trim cylinder
19. Water intakes



AQUAMATIC OUTBOARD DRIVE 270 T

Drive 270 T has an Internal Power Trim which further adds to the range of use of the well-known and well-tried outboard drive model 270.

Irrespective of the boat speed, the drive can easily be trimmed in and out by means of a control switch on the instrument panel, which also has a trim indicator for indicating the position of the drive.

The best running position for the boat can thereby be selected at varying loads, and this ensures more rapid acceleration to planing speed, quieter running and better top speed. In this way the large power resources of the engine can be used with better operating economy as a result.

When running in "Reverse" the hydraulic system automatically locks the drive against tilting up and therefore no retaining pawl is required.

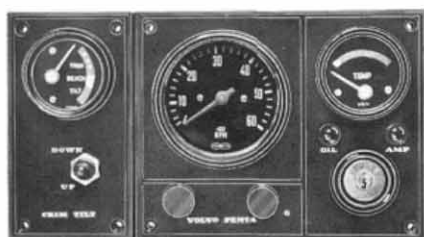
When running in shallow water the drive can be partly tilted to "Beach", where "Forward" and "Reverse" manoeuvring can be carried out.

The hydraulic system is so designed that the drive tilts on hitting an obstacle in the water when running "Forward". Safe-

ty valves in the hydraulic system open with overloading, and this protects the drive from damage. In emergency situations, rapid, manoeuvring in reverse can also be carried out to speeds of about 15–20 knots without the drive "floating up".

DATA

Type of operation	four-stroke carburetor engine with overhead valves
Type designation	AQ130C/270TD
Max. output (SAE)	130 h.p.
Max. operating speed, r.p.m.	5100
Number of cylinders	4 in line
Capacity, litres (cu.in.)	1.986 (121)
Bore/stroke, mm (in.)	88.9/80 (3.50/3.15)
Compression ratio	9.5:1
Outboard drive, type designation/ratio	270TD/2.15:1
Hydraulic power trim manoeuvring	
Trim	–4° – +4°
Beach	4° – 30°
Tilt	30° – 60°
Total weight, kg (lb.), approx.	240 (530)

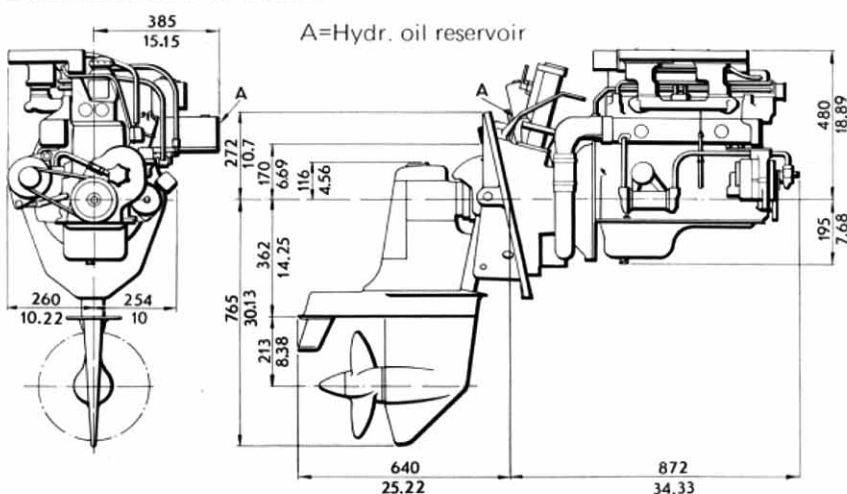


Standard equipment includes: Instrument panel of entirely new design which can be supplemented with small panels for extra instrumentation.

Also included as standard are: Electric rev. counter, temp. gauge, warning lamps for battery charging and oil pressure, switches and key switch, also trim indicator and trim toggle control switch.

All electric cables are routed together in a 7 m (23 ft.) long cable harness with plug in.

DIMENSION DRAWING



We reserve the right to carry out modifications



AB VOLVO PENTA

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