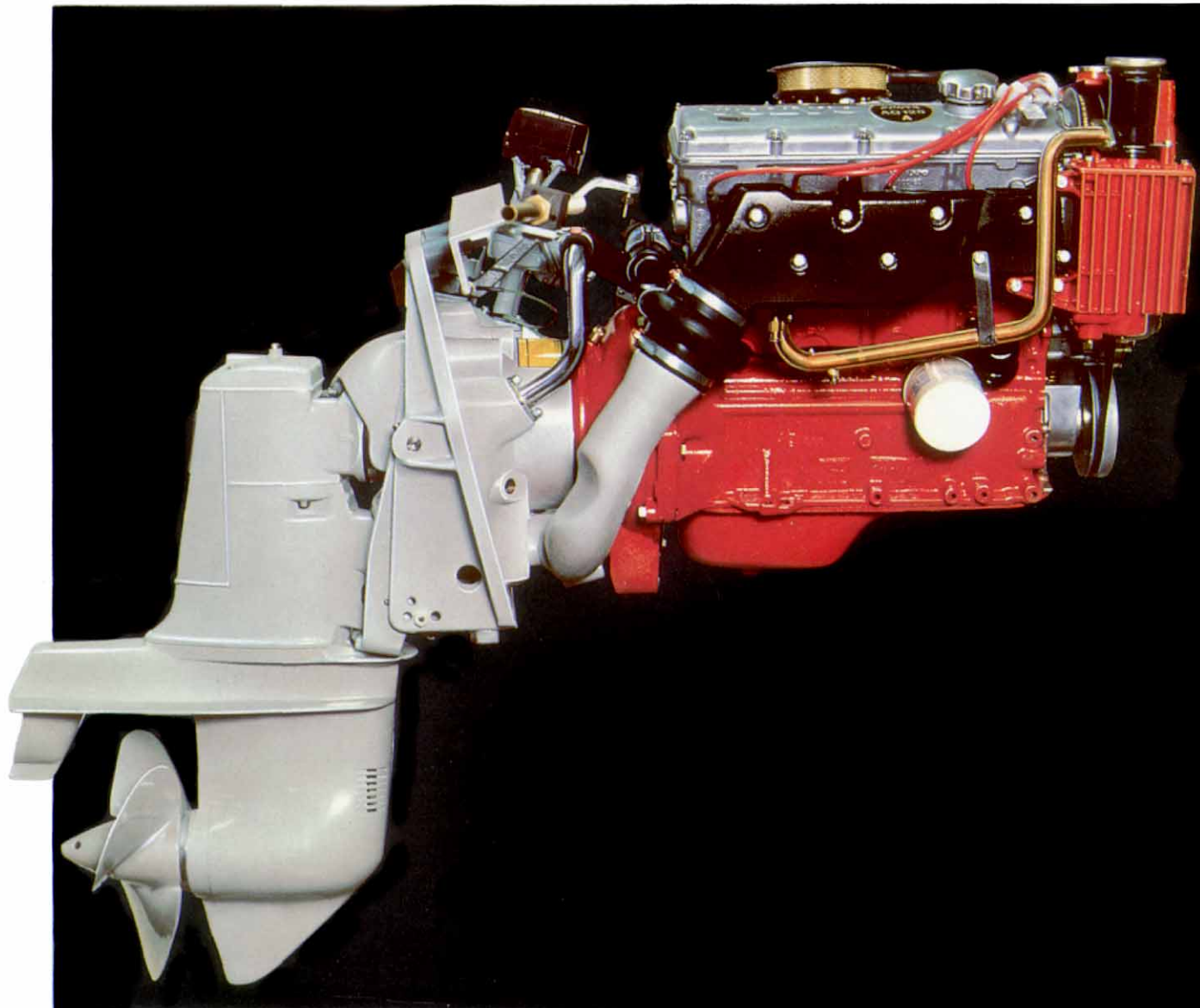


**VOLVO
PENTA**

AQ125B/270D



4-cylinder, 4-stroke, fresh water cooled carburettor engine, fitted with Type 270D outboard drive. Flywheelpower output* 88 kW (120hp)

The AQ125B is a reliable, economical Aquamatic engine. In combination with the Type 270 drive, with its carefully selected gear ratio, this engine gives outstanding acceleration and speed.

The torque of the engine, throughout the whole of its speed range, gives rapid planing and allows operation at low economical speeds.

The low weight and low space requirements offer advantages in terms of both speed and installation. Fresh water cooling, in a completely closed system is standard.

Conversion of the engine for marine use has been achieved giving maximum ease of access for check up and servicing. The seawater pump is mounted in the front end of the engine, which

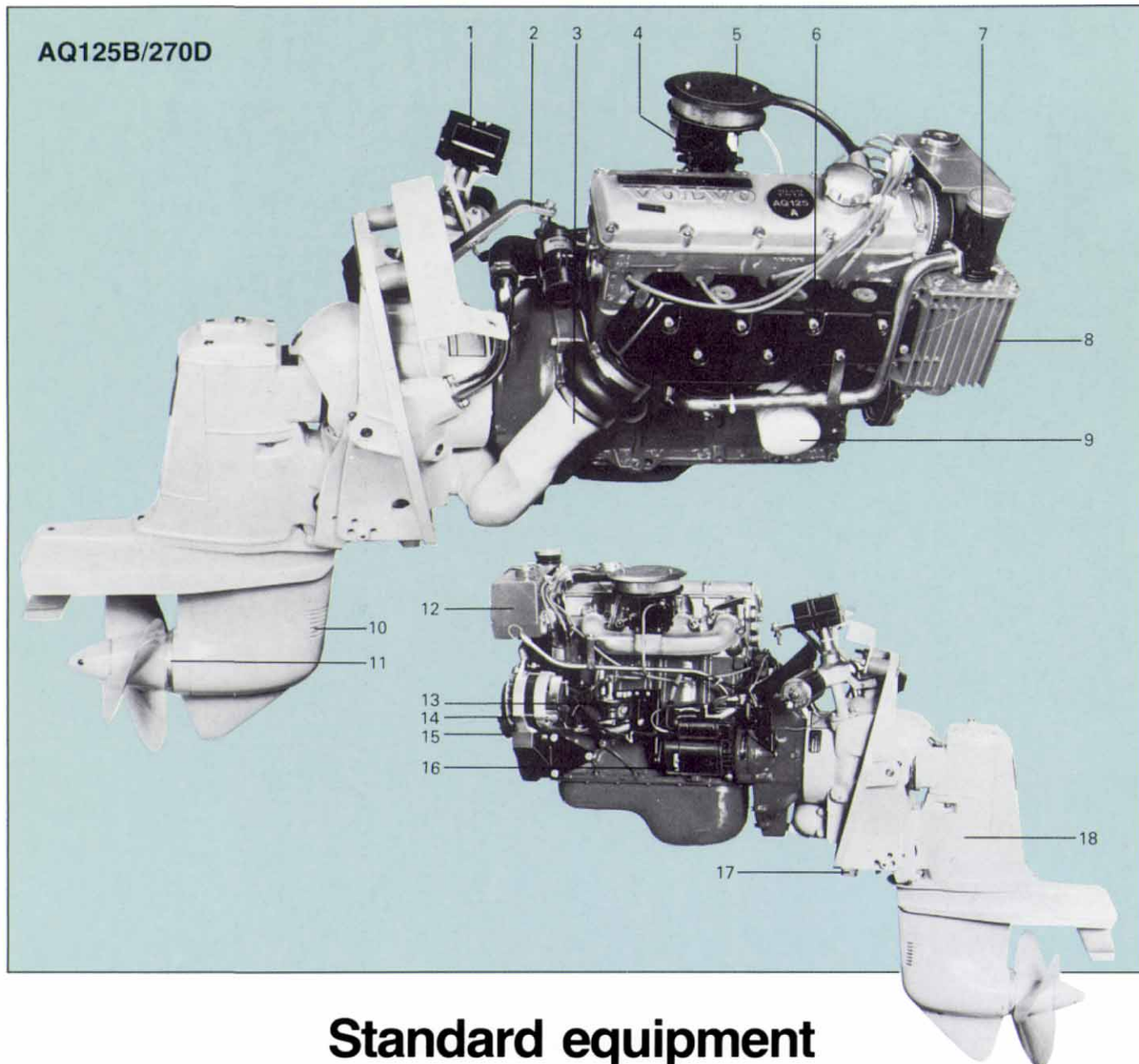
makes it possible to replace the impeller also at sea. An overhead camshaft, with fixed valve clearances, helps prolong the intervals between servicing.

The Type 270 outboard drive, well-known for its long life and excellent resistance to salt water corrosion, in combination with the engine, forms a compact reliable unit giving maximum propulsion efficiency. The retaining pawl has a quick release feature to allow the drive to kickup when striking underwater objects.

Volvo Penta has a well-established servicing network and our authorized workshops, with their skilled personnel and supply of original spare parts, will see that you enjoy a safe and comfortable boating season.

*Acc. to SAE J607

AQ125B/270D



Standard equipment

ENGINE BODY

Cylinder block made of a special grade of cast iron; cylinder head made of aluminium alloy. The engine is mounted on to the flywheel casing at an angle of 20° to reduce space required for installation. Five-bearing overhead camshaft, driven by a reinforced neoprene toothed belt. Pistons made from light alloy, with two compression rings and one oil scraper ring. Crankshaft supported by five bearings. Overhead valves with replaceable special steel seatings and shims for adjustment of valve clearance.

FUEL SYSTEM

Downdraft carburettor with

acceleration pump (4). Fuel pump (13).

COOLING SYSTEM

Thermostat-controlled fresh water system, with circulation pump, expansion tank (12) and heat exchanger (8). Seawater pump, with neoprene rubber impeller (15). Cleanable seawater filter (7).

LUBRICATING SYSTEM

Pressure lubrication with full-flow lubricating oil filter (9). Closed crankcase ventilation.

INTAKE SYSTEM

Built-in flame guard (5).

EXHAUST SYSTEM

Seawater cooled exhaust pipe

(6) with cast iron manifold elbow. Complete exhaust line for connection to drive (3).

OUTBOARD DRIVE

Outboard drive (18) complete with mounting collar, rubber-suspended flywheel housing and installation components. All gears are helical cut and designed for continuous operation in either direction of rotation. Cone clutch gives reliable and quiet engagement; low operating force required. The gearshift mechanism has an easily adjusted link rod to allow conversion to suit clockwise or anti-clockwise rotation of the propeller. Drive can be tilted through 60°. Attachment for steering cable

and steering arm (2) fitted to mounting collar.
Reverse-pawl mechanism (17) of patented design.
Electromechanical power tilt for drive (1).

ELECTRICAL SYSTEM

Corrosion-proofed 12V electrical system. Alternator (14), 14V/50A, designed for marine operation. Voltage regulator for rapid battery charging. Alternator designed for fitting of double diode system, which automatically distributes loading current between

en two or more batteries. Main fuses, with reserve fuses fitted.

STARTING

Electric starter motor (16), 1,1 kW (1,5 hp).

INSRUMENT PANEL



(Optional on some markets)
Fitted with key switch, tachometer, oil pressure gauge, voltmeter, temperature gauge, switch for instrument lighting and two fuses. Cable harness length 6,0 m (19,7 ft).

Separately mounted operating switch and indicator lamp for power tilt of drive; 7 m electrical extension cable, with plug-in connector also supplied.

Data

Type of operation 4-stroke fresh water cooled carburettor engine
with overhead valves

Designation AQ125B/270D

Max. power output* at 5000 r/min 88 kW (120 hp)

Recommended max. revolutions 4800 r/min

Number of cylinder 4

Capacity 2.31 dm^3

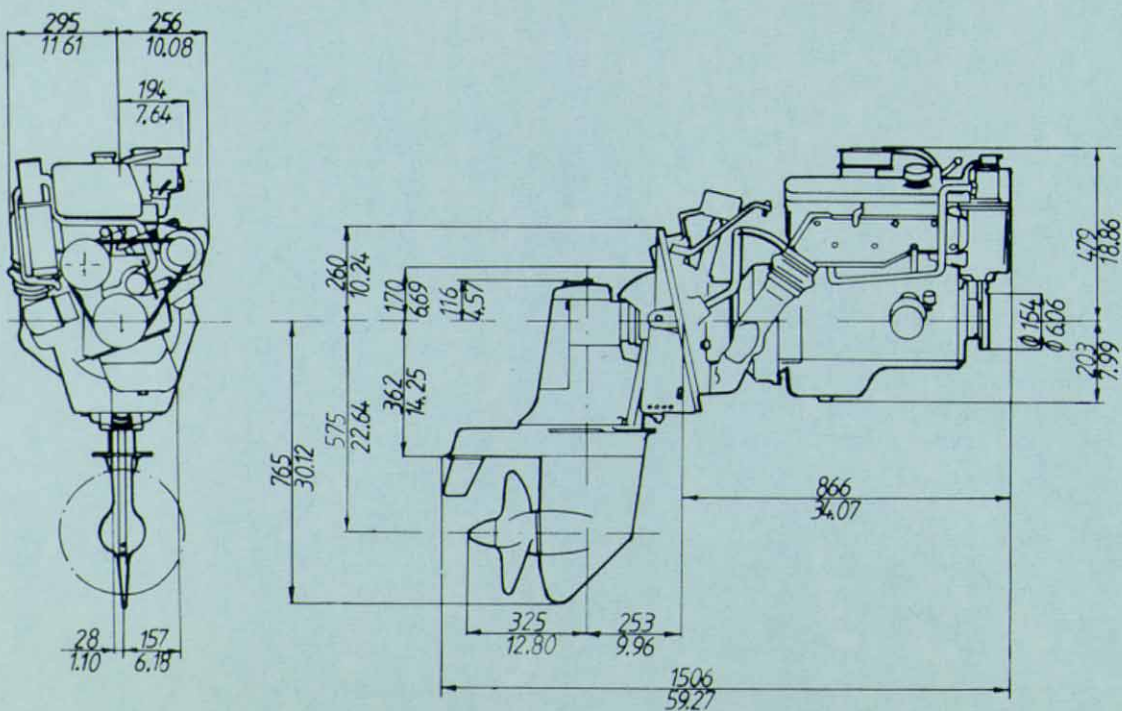
Cylinder diameter/stroke 96/80 mm

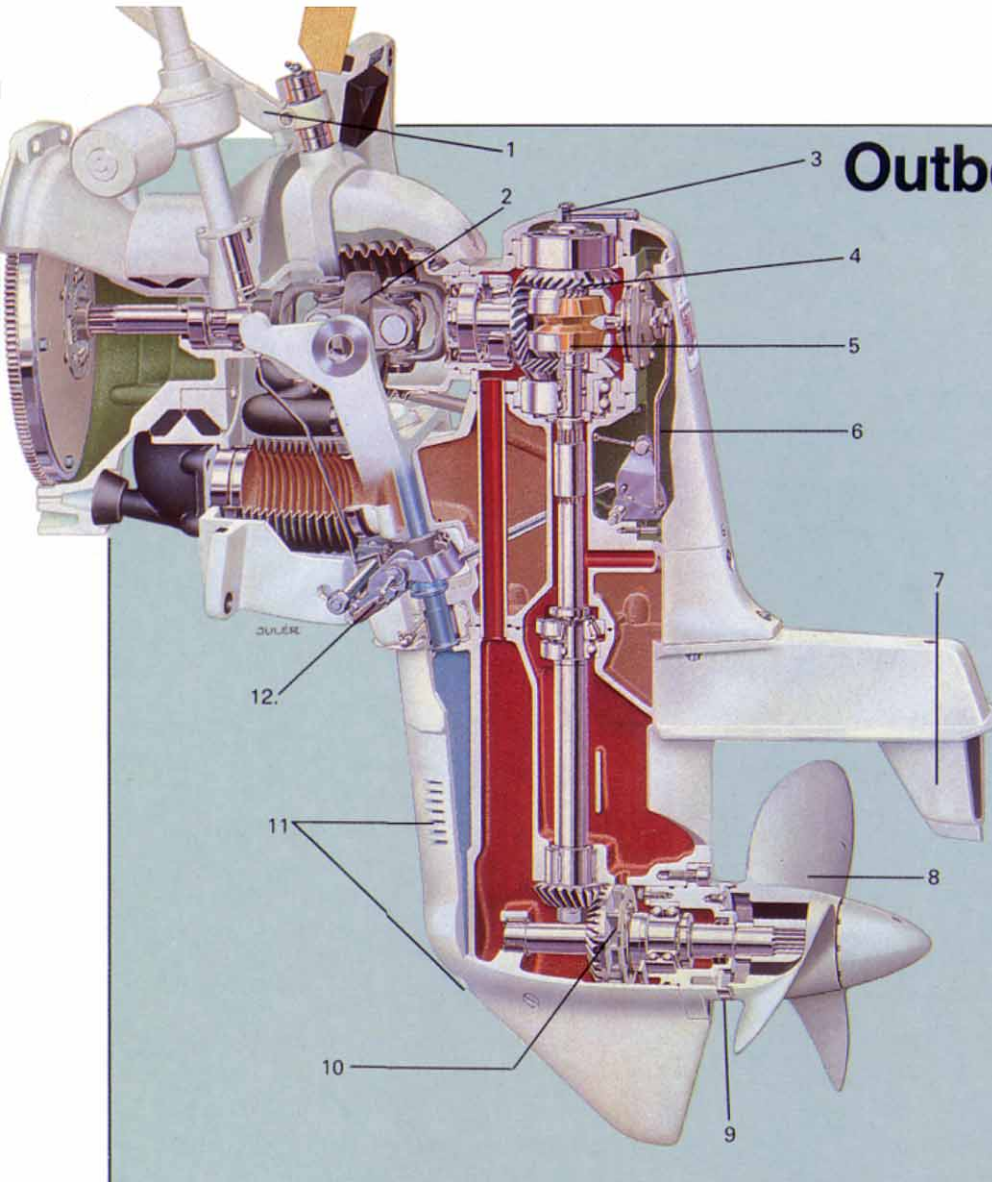
Grade of fuel min. 90 octane RON

Outboard drive, type des. and reduction 270D/2.15:1

Total Weight (approx.) 238 kg (525 lb)

*Max. flywheel output, according to SAE J607





Outboard drive 270D

1. Robust steering arm on inside of mounting collar. Ready for coupling to steering cable.
2. Double universal joint. Strongly designed and completely maintenance-free.
3. Easily-accessible oil dipstick.
4. Helical-cut gears for low noise level.
5. Patented cone clutch. Silent shift type. Operates smoothly and quietly and requires little effort.
6. Link rod for clutch. Direction of rotation of propeller can be reversed by relocating this rod.
7. Cavitation plate with exhaust outlet.
8. Space for propellers up to 16" diameter.
9. Zinc ring in front of propeller, together with extra zinc anode on mounting collar, give efficient corrosion protection.
10. Oil pump, vane type.
11. Cooling water intake.
12. Reverse pawl mechanism, patented design, gives full reverse capability and prevents drive from tilting up when throttle is pulling back quickly. Also allows drive to kick up on striking underwater objects.

Accessories

FUEL SYSTEM

Water separation fine filter, with or without flexible hoses.
Fuel feedpipe kit, with copper tubes and fittings.
Lid, with connections, for fuel tank.

ELECTRICAL SYSTEM AND INSTRUMENTS

Battery charge distributor for use with two-battery system.
Extra instruments: electric timer, fuel and water level meters, voltmeter, rudder position indicator.
Master switch.
Extension cables.
Panel for extra instruments.

COOLING SYSTEM

Extra cooling water intake for fitting to transom.

OUTBOARD DRIVE

Extension of drive.

BOAT ACCESSORIES

Electric bilge pump.
Original paint.
Oils.
Kits for use on board.

CONTROLS AND OPERATING SYSTEMS

VP single-lever control for engine speed and gearshift,

either vertical or side mounted.
Single or twin installations.
Neutral position contact for VP control.
Steering gears.
Steering wheel.
Steering cable and engine control cable.
Ball joint for steering cable.
Link rod kit for control of double installations.
Control console, complete kit.
Steering cable attachments.
Guide tube for steering cables.
Equipment for flying bridge installations.

AQUAMATIC PROPELLERS