



P 1800



VOLVO P 1800

Engine: The engine for the Volvo P 1800, which is of completely new design, has the following specifications:

Four-cylinder overhead-valve engine
 Bore = 3.313" (84.14 mm)
 Stroke = 3.15" (80 mm)
 Capacity = 108.5 cu.in. (1.78 liters)
 Compression ratio = 9.5:1
 Max. output = 100 b.h.p. (SAE) at 5500 r.p.m.
 Max. torque = 108 lb.ft. (15 kgm) at 4000 r.p.m.

Twin $1\frac{3}{4}$ " horizontal carburetors. Crankshaft carried in five lead-bronze bearings, surface-hardened journals. The cylinder head has separate induction ports and special cooling through a water distributing tube. Full-flow oil filter and oil cooler standard.

Clutch: $8\frac{1}{2}$ " single dry plate clutch with hydraulic control system.

Transmission: Four-speed, fully synchronized transmission.

Ratios: 1st 3.13:1 4th 1:1
 2nd 1.99:1 Reverse ... 3.25:1
 3rd 1.36:1

An electrically operated overdrive is available as optional extra. Ratio: 0.756:1.

Propeller shaft: Divided propeller shaft for vibration-free operation. The centre bearing is suspended in vibration and sound insulating rubber blocks. Sealed ball bearing in centre bearing.

Rear axle: Hypoid type rear axle. Ratio: 4.1:1 or 4.56:1 when overdrive fitted.

Steering system: Cam and roller type. Ratio: 15.5:1. $3\frac{1}{4}$ turns of steering wheel from lock to lock. Turning circle diameter approx. 31 ft. (9.5 m).

Suspension:

Front: Independent suspension with coil springs and control arms. The control arms are carried in rubber bushings and ball joints. Stabilizer bar.

Rear: Coil springs above rear axle which is carried in rubber-mounted support arms, torque arms and track rod.

Double-acting, hydraulic, telescopic shock absorbers front and rear. For constant operation even when driving fast on bad roads, each shock absorber has a freon-filled nylon cell.

Brakes: Servo brake with $5\frac{1}{2}$ " servo cylinder.

Front: Splash-protected, self-adjusting disc brakes of the three-cylinder type with $10\frac{7}{8} \times 1\frac{1}{2}$ " discs. Liberally dimensioned brake friction area of 14.33 sq.in. (92.5 cm²) on each front wheel.

Rear: Self-centring hydraulic 9×2 " V-type drum brakes (leading and trailing). Brake friction area 32.6 sq.in. (210 cm²) on each rear wheel.

The handbrake operates separately on the rear wheels.

Wheels and tires: Pressed steel wheels ($4\frac{1}{2} \times 15$). High-speed type, braced-tread tires, 165-15.

Body: Integral construction, all-welded steel body. Two-door, two-seater with two occasional seats. The body and other sheet metal components are rust-proofed.

Fuel tank: Located at the rear. Capacity 12 US gallons = 10 Imp. gallons (45 liters).

Electrical equipment: 12-volt battery with a capacity of 58 amp. hrs. 30-amp. fan-cooled generator with automatic voltage control. 1 h.p. starter motor. Starting switch combined with ignition switch. Special "radio" position for ignition switch

allowing use of all electrical accessories even when engine is not running. Tamper-proof armored cable between ignition switch and ignition coil. Powerful headlights with excellent distribution of light.

Foot dimmer switch. Direction indicator switch under the steering wheel. Headlight signalling device controlled by direction indicator switch. Combined stop and tail lights with built-in reflectors. Flasher type direction indicators front and rear with visible and audible warning device on instrument panel. Twin horns and extra loud horn. Courtesy light.

Instruments and operating controls: Speedometer, mileometer and trip meter, revolution counter, strip-type temperature gauge for water and oil, pressure gauge for oil, fuel gauge and electric clock. Charging indicator lamp. Indicator lamps for flashers and full headlights. Rheostat-controlled instrument lighting. Steering wheel with recessed hub. Horn button in steering wheel hub with lever for loud tone horn under steering wheel. Centrally located remote control gear shift lever.

Other equipment: 2-speed, self-parking electric windshield-wipers. Electric windshield washers. Thermostat-controlled fresh air heater system with separate defroster controls. Two separate air intakes for summer ventilation. Safety belts. Padded sun visors and instrument panel. Ash-tray and cigarette lighter. Complete tool kit and spare wheel.

Principal dimensions:

Wheelbase	96.5" (2,450 mm)
Track, front	52" (1,315 mm)
Track, rear	52" (1,315 mm)
Overall length	173" (4,400 mm)
Overall width	67" (1,700 mm)
Overall height, unladen ..	51" (1,285 mm)
Ground clearance approx.	6.3" (160 mm)

The factory reserves the right to modify the design and equipment.



AB VOLVO

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