



**P 1800**



## SPECIFICATIONS

**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 = 100b.h.p.(SAE)at5500r.p.m.  
Max. torque = 108 lb.ft. (15 kgm) at 4000 r.p.m.

Twin 1<sup>1</sup>/<sub>4</sub>" horizontal carburetors. The cylinder block has been designed for the stable suspension of the transmission with the clutch and the starter motor. 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. A full-flow oil filter is included in standard equipment. An oil cooler is available as extra equipment.

**Clutch:** 8<sup>1</sup>/<sub>2</sub>" single dry plate clutch with hydraulic control system.

**Transmission:** Four-speed, fully synchronized sports 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 center bearing is suspended in vibration and sound insulating rubber blocks. Self-lubricating ball bearing in center 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<sup>1</sup>/<sub>4</sub> 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<sup>1</sup>/<sub>2</sub>" servo cylinder.

**Front:** Splash-protected, self-adjusting disc brakes of the three-cylinder type with 10 7/8 x 1/2" discs. Liberally dimensioned brake friction area of 14.33 sq.in. (92.5 cm<sup>2</sup>) on each front wheel.

**Rear:** Self-centring hydraulic 9x2" V-type drum brakes (leading and trailing). Brake friction area 34.5 sq.in. (223 cm<sup>2</sup>) on each rear wheel.

The handbrake operates separately on the rear wheels.

**Wheels and tires:** Pressed steel wheels (4<sup>1</sup>/<sub>2</sub>"xJ). High-speed type, low-pressure tires, 5.90-15".

**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. Complete undersealing.

**Fuel tank:** Located at the rear. Capacity 10 Imp. gallons = 12 US 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.

Dimmer switch and 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" operation of internal lighting when either of the doors is opened.

**Instrument and operating control:** Speedometer (0-125 m.p.h.), mileometer and trip meter, revolution counter (0-7000 r.p.m.), 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 floor gearshift 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 (optional). Padded sun visors and instrument panel. Ash-tray and cigarette lighter. Complete tool kit and spare wheel. Mud-flaps. Grab handle for passenger on instrument panel.

### Principal dimensions:

Wheelbase	96 <sup>1</sup> / <sub>2</sub> " (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.