

VOLVO P 180



SPECIFICATIONS VOLVO P 1800 S

Engine, type B 18 B

Four-cylinder with overhead valves and five-bearing crankshaft. Fully machined combustion chambers. Separate inlet and exhaust ports.

Bore	3.313"
Stroke	3.15"
Displacement	1780 cc./109 cu.in.
Compression ratio	10.0:1
Max. output	108 h.p. (SAE) at 5800 r.p.m.
Max. torque	110 lb.ft. (SAE) at 4000 r.p.m.
Carburetors	Twin SU horizontal
Oil filter	Full-flow type
Oil cooler	Heat exchanger type

Cooling system

Capacity approx. 4.5 quarts
Circulation thermostatically controlled.
Oil cooler (see engine).

Battery

Voltage 12 V
Capacity 60 Ah

Generator

Fan-cooled and with automatic voltage control.
Effect max. 360 W

Starter motor

Output 1 h.p.
Starter contact in ignition lock. The lock also has a position whereby all the electrical equipment with the exception of the engine can be switched on. The ignition lock and coil are connected by means of an armored cable.

Clutch

Single dry disc, hydraulically controlled.
External diameter of disc 8½".

Transmission

Fully synchronized; needle bearings.
Short floor-mounted gear lever.

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

Overdrive (extra equipment)

Electrically controlled. Operates on fourth speed.
Ratio 0.756:1

Drive shaft

Divided for vibrationless running.
Three universal joints mounted in needle bearings and one maintenance-free intermediate bearing mounted in rubber.

Rear axle

Hypoid final drive.
Ratio: Standard 4.1:1
With overdrive 4.56:1

Steering

Type cam and roller.
Number of steering wheel turns from lock to lock 3¼
Turning circle approx. 30 ft.

Front wheel suspension

Independent suspension with rubber-mounted control arms and ball joints. Coil springs and stabilizers.

Rear wheel suspension

Rigid rear axle carried on two longitudinal rubber-mounted support arms and two longitudinal rubber-mounted torque rods. Transverse location of axle by means of a track rod. Coil springs.

Shock absorbers

Double-acting, hydraulic, telescopic shock absorbers at front and rear. For constant damping during hard driving on bad roads the shock absorbers have freon-filled nylon containers.

Footbrake

Hydraulic brakes with vacuum servo-assistance.

Front:

Discs. Splash protected and self-adjusting.
Brake disc (diameter×thickness) ... 10⅞×½"

Rear:

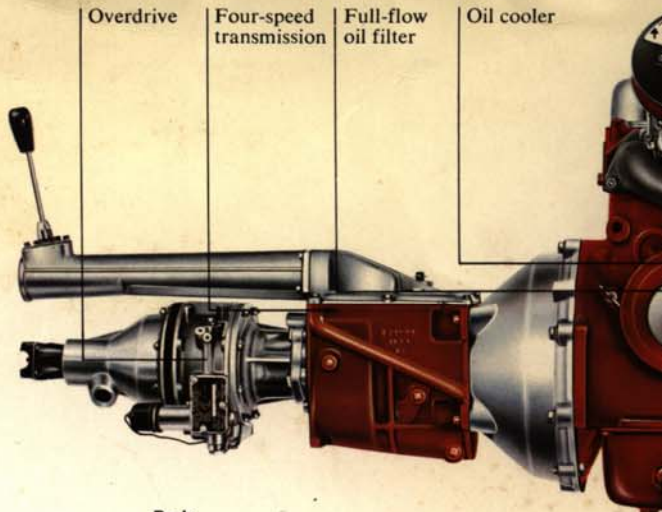
Drums of the V-type. Self-centering.
Brake friction area per wheel 32.5 sq.in.

Handbrake

Operates mechanically on rear wheels. Brake lever placed between driving seat and door.

Wheels and tires

Pressed steel wheels. All wheels balanced.
Rim size 4½J×15"
Braced-tread type sports tires (with tubes)
Size 165 mm—15"



Body

Integral, all-welded steel body, completely rust-protected in accordance with the most modern methods. Closed body sections oil-mist sprayed. Undercoated wheel wells.

Gas tank

Capacity 12 US gallons

Lighting equipment

Standard seal beam headlights. Turn indicators front and rear. Stop and rear lights with built-in reflectors. Back-up light. The interior lighting is switched on automatically when either of the doors is opened. Adjustable instrument lighting. Underdash map-reading light.

Instrumentation

Speedometer with odometer and trip meter. Tachometer. Water and oil temperature gauges. Oil pressure gauge. Fuel gauge. Warning lamps for battery charging, high-beam headlights, directional signals and overdrive. Clock.

Other equipment

Town and country horn. Foot dipper switch. Direction indicator lever with automatic return. Fresh air heater and defroster. Heating thermostatically controlled. Two-speed ventilation fan. Separate air intakes for ventilation in hot weather. Two-speed electric windshield wipers. Electric windshield washer. Two padded



AB VOLVO GÖTEBORG