

VOLVO
S80



VOLVO



ENGINES AND TRANSMISSIONS

The Volvo S80 offers a choice of five powerful, highly efficient petrol and diesel engines. Ample power is available across a wide range of engine speeds, resulting in effortless response and excellent flexibility in any driving situation. Transverse mounting ensures good balance and greater interior space.

Five cylinder engines

Three five cylinder engines are available ranging from 140 bhp to 170 bhp. In each, as the power distribution is spread across a wide operating range, driving is relaxed, with acceleration brisk and rapid even at lower speeds. The smooth, quiet running 2.5 litre 140 bhp turbo diesel uses direct injection technology. In addition to offering good acceleration (0-62mph in 11 seconds) it also delivers highly competitive fuel economy.

Six cylinder engines

Where even more power and refinement are required, there are two in-line six cylinder engines to consider. A 2.9 litre 204 bhp engine guarantees smooth capable cruising and swift, safe overtaking.

T6

First Volvo gave you the T5, and then T4. Now Volvo proudly presents T6, the most powerful engine Volvo have ever produced. Available only in SE specification, this 2.8 litre, six cylinder twin-turbo engine harnesses an exhilarating 272 bhp that can take you from 0-62 mph in a mere 7.2 seconds. But as you'd expect from Volvo, power is never provided without control; like all S80 variants the T6 comes with Stability and Traction Control (STC) as standard.

Volvo S80 engine choices

2.4 litre (140 bhp)

Optimum cost and economy with smooth, refined five cylinder performance.

2.4 litre (170 bhp)

Wide torque range and good fuel economy make this engine ideal for regular towing and load carrying.

2.5 litre D (140 bhp) Direct Injection Diesel Engine

Superbly quiet, refined and drives like a petrol engine yet delivers diesel economy.

2.9 litre (204 bhp)

Six cylinder power and refinement for effortless cruising.

T6 SE (272 bhp)

Awesome sporting performance.

Transmissions

For most engines, a choice of five speed manual or four speed automatic transmissions is available. For the T6 engine, the Geartronic transmission offers two gearboxes in one: an intelligent automatic that 'learns' your driving style, and manual for active driving pleasure. The T6 SE is only available with Geartronic.



The Volvo S80 is the first car in modern times to have a transverse in-line six-cylinder engine.



The three-way catalytic converter with twin electrically-heated lambda sensors reduces the levels of carbon monoxide, nitrogen oxides and hydrocarbons in the exhaust emissions by an average of 95%.



Variable camshaft timing on the inlet or exhaust side gives the engines consistent pulling power at all speeds - as well as cleaner emissions.



The four-speed Geartronic automatic transmission can also be shifted manually, if you want a more active driving style. You can shift up by pushing the lever away from you and down by pulling it towards you (Volvo S80 T6 SE only).



The 272 bhp engine in the Volvo S80 T6 SE has two small turbochargers for swift response.

TECHNICAL SPECIFICATION

ENGINE	2.4 (140 bhp)		2.4 (170 bhp)		2.5 D		2.9		T6 SE
Configuration	Transverse 20 valve		Transverse 20 valve		Transverse 10 valve		Transverse 24 valve		Transverse 24 valve
Cylinders	5		5		5		6		6
Engine capacity, cc	2435		2435		2460		2922		2783
Bore x stroke, mm	83 x 90		83 x 90		81 x 95.5		83 x 90		81 x 90
Max. output ECE, bhp/kw/rpm	140/103/5700		170/125/5700		140/103/4000		204/150/6000		272/200/5400
Max. torque ECE, Nm/rpm	220/4500		230/4500		290/1900-3100		280/5400-6000		380/2000-5000
Power to weight ratio with full load, hp/tonne	94		114		TBC		131		169
Octane rating	95 RON unleaded (min 91)		95 RON unleaded (min 91)		Diesel		95 RON unleaded (min 91)		95 RON unleaded (min 91)
Fuel system	Multipoint Fuel Injection		Multipoint Fuel Injection		Diesel		Multipoint Fuel Injection		Multipoint Fuel Injection
Compression ratio	10.3		10.3		20.5		10.5		8.5
TRANSMISSION	Manual	Auto (May99)	Manual	Auto	Manual	Auto (March 99)	Manual	Auto	Geartronic
Mph/1000 rpm	26.3	29.6	26.3	29.6	26.1	27.0	26.0	28.0	32.2
POWER STEERING SYSTEM (rack and pinion)									
Turning circle, m (ft)									
205 section tyres	10.9 (36)		10.9 (36)		10.9 (36)		10.9 (36)		10.9 (36)
PERFORMANCE	Manual	Auto (May 99)	Manual	Auto	Manual	Auto (March99)	Manual	Auto	Geartronic
Top speed, mph	127	TBC	136	134	127	124	146	140	155
Acceleration 0-62 mph, sec	11.0	TBC	9.0	9.9	11.0	11.5	8.2	8.9	7.2
Drag co-efficient	0.28		0.28		0.28		0.28		0.28
BRAKES									
Full load stopping distance 62-0 mph, m (ft)	42 (138)		42 (138)		42 (138)		42 (138)		42 (138)
Full load stopping distance 62-0 mph, secs	3.0		3.0		3.0		3.0		3.0
Disc diameter mm, front	286 ventilated		286 ventilated		286 ventilated		305 ventilated		305 ventilated
rear	288		288		288		288		288
FUEL CONSUMPTION (Government Approved)*									
Mpg (1/100 km)	Manual	Auto (May 99)	Manual	Auto	Manual	Auto (March99)	Manual	Auto	Geartronic
Urban	23.3 (12.1)	TBC	22.4 (12.6)	20.3 (13.9)	32.1 (8.8)	25.7 (11.0)	20.8 (13.6)	19.3 (14.6)	17.2 (16.4)
Extra Urban	44.1 (6.4)	TBC	41.5 (6.8)	40.9 (6.9)	57.6 (4.9)	52.3 (5.4)	38.7 (7.3)	37.2 (7.6)	35.3 (8.0)
Combined	33.2 (8.5)	TBC	31.7 (8.9)	29.7 (9.5)	44.1 (6.4)	38.2 (7.4)	29.1 (9.7)	28.0 (10.1)	25.9 (10.9)
CO ₂ g/km	204	TBC	213	228	169	196	232	243	264
Fuel tank volume, litres (gallons) is 70(15.4) for 2.4 (140 bhp) engine/80(17.6) for all other engines.									
PROVISIONAL INSURANCE GROUPS									
Standard	14E		14E		13E		15E		16E
SE	14E		14E		13E		15E		16E

The Urban fuel consumption figure is based on typical city driving, including starting the car from cold.

The Extra Urban figure is based on typical motorway driving and cruising.

The Combined figure averages the consumption across both cycles.

* These results do not express or imply any guarantee of the fuel consumption of a particular car as there are inevitable differences between individual cars of the same model. Additionally driving style, traffic conditions, as well as the age and mileage and standard of maintenance will affect a car's fuel consumption.

ALL ENGINES

WEIGHTS

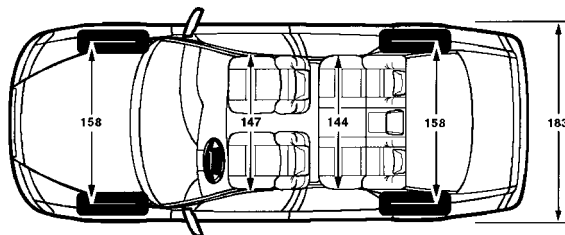
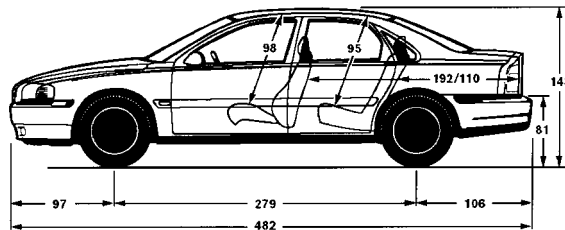
Min. kerb weight, kg (actual kerb weight dependent on spec.)	1489 (2.9 is 1552)
Max. possible towing weight braked, kg	1800
Max. towing weight unbraked, approx. kg	500
Max. total weight, kg	2060
Max. roof load, kg	100
Max payload, kg (dependent on spec. of car)	TBC

LUGGAGE COMPARTMENT

Volume, litres (cu ft)	440 (15.5)
Volume, rear seats down, litres (cu ft)	882 (31.1)

WHEELS

15" steel wheels (five)	205/65R1 5V (2.4 and 2.5 D only)
15" Rhea alloy wheels (four)	205/65R1 5V (2.4 and 2.5 D only)
15" Argon alloy wheels (four)	205/65R1 5V (2.4 and 2.5 D only)
16" steel wheels (five)	215/55R1 6W (2.9 only)
16" Miram alloy wheels (four)	215/55R1 6W (not T6 SE)
16" Regulus alloy wheels (four)	215/55R1 6W (not T6 SE)
17" Arrakis alloy wheels (four)	225/50R1 7W (T6 SE only)
18" Capella alloy wheels (four)	235/40R1 8ZR (Accessory only)
17" Canopus alloy wheels (four)	225/50R1 7W



All measurements in cm.

Please note that some of the figures are preliminary at time of launch and are subject to change.

Notes

All weights for any specific vehicle will vary according to standard and optional equipment fitted. A weighbridge must be used to determine specific weights.

Data valid for manual transmission unless specified.

* Unbraked towing weight must not exceed 50% of kerb weight up to a maximum of 750 kg.

Man = Manual transmission. **Auto** = Automatic transmission.