

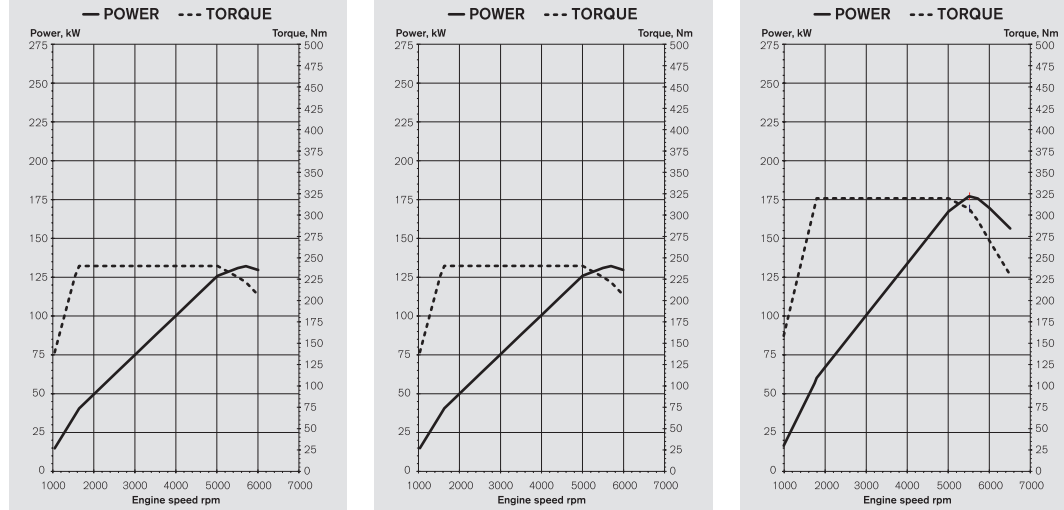
Volvo S80

CONT'D VOLVO S80 →

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ENGINES	T4 (B4164T)	T4F (B4164T2)	T5 (B4204T7)
Type	In-line 4-cyl. turbo petrol	In-line 4-cyl. turbo petrol	In-line 4-cyl. turbo petrol
Configuration	Transverse, front wheel drive	Transverse, front wheel drive	Transverse, front wheel drive
Displacement, cm ³	1596	1596	1999
Bore (mm)	79.0	79.0	87.5
Stroke (mm)	81.4	81.4	83.1
Engine cylinder block material	Aluminium	Aluminium	Aluminium
Cylinderhead material	Aluminium	Aluminium	Aluminium
Compression ratio	10.0:1	10.0:1	10.0:1
Valves, no/cylinder	4	4	4
Camshafts	2	2	2
Engine management system	Integrated fuel (SFI) / ignition control systems	Integrated fuel (SFI) / ignition control systems	Integrated fuel (SFI) / ignition control systems
Ignition sequence	1 - 3 - 4 - 2	1 - 3 - 4 - 2	1 - 3 - 4 - 2
Engine idling speed, rpm	750	750	780
Fuel, rec. octane	91-98 RON	E85 & 91-98 RON	91-98 RON
Max output, kW (hp)/rpm.	132 (180) / 5700	132 (180) / 5700	177 (243) / 5500
Max torque, Nm/rpm.	240 / 1600-5000	240 / 1600-5000	320 / 1800-5000

POWER AND TORQUE →



Manual gearbox/final drive	MMT6 Z3	3.690/2.682	MMT6 Z3	3.690/2.682	MMT6 Z3	3.813/2.773
Automatic gearbox/final drive	MPS6-7	3.933/2.682	MPS6-7	3.933/2.682	MPS6-7	3.933/2.682
PERFORMANCE						
Gearbox	Manual	Automatic	Manual	Automatic	Manual	Automatic
Acceleration, 0-100 km/h (sec)	8.5	9.2	8.5	9.2	7.5	7.7
Top speed, km/h	220	220	220	220	245	240
Fuel consumption l/100 km (Combined)	6.6	7.1	6.9	7.1	7.9	8.1
CO ₂ , g/km	152	162	159	165	184	189

TRANSMISSIONS

6-speed manual and automatic gearbox.
6-speed powershift.

RATIO	AW TF-80 SC	M66D F2A	MPS6-7	MPS6-4	MMT6 Z3 FD 3.69	MMT6 W3 FD 4.063	MMT6 FD 3.81
First	4.148	3.385	3.818	3.563	3.818	3.583	3.818
Second	2.370	1.905	2.150	1.952	2.150	1.952	2.150
Third	1.556	1.194	1.407	1.194	1.423	1.241	1.423
Fourth	1.155	0.838	1.029	0.842	1.029	0.943	1.029
Fifth	0.859	0.652	1.188	0.943	1.129	0.943	1.129
Sixth	0.686	0.540	0.971	0.789	0.943	0.789	0.943
Reverse	3.394	3.200	5.284	4.843	5.443	5.099	5.443

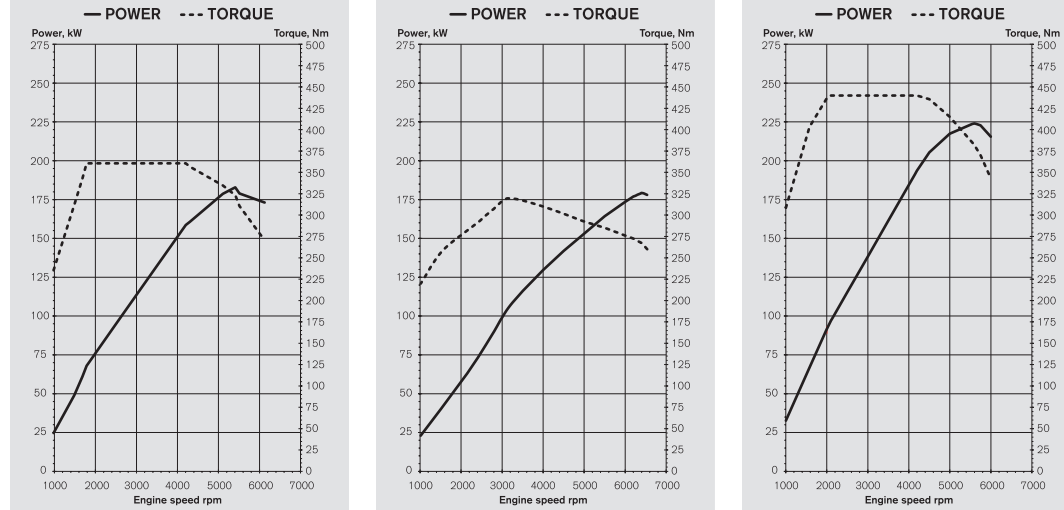
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ENGINES	T5 (B5254T14)	3.2 (B6324S8)	T6 (B6304T4)
Type	In-line 5-cyl. turbo petrol	In-line 5-cyl. petrol	In-line 6-cyl. turbo petrol
Configuration	Transverse, front wheel drive	Transverse, front and all wheel drive	Transverse, all wheel drive
Displacement, cm ³	2497	3192	2953
Bore (mm)	83.0	84.0	82.0
Stroke (mm)	92.3	96.0	93.2
Engine cylinder block material	Aluminium	Aluminium	Aluminium
Cylinderhead material	Aluminium	Aluminium	Aluminium
Compression ratio	9.5:1	10.8:1	9.3:1
Valves, no/cylinder	4	4	4
Camshafts	2	2	2
Engine management system	Integrated fuel (SFI) / ignition control systems	Integrated fuel (SFI) / ignition control systems	Integrated fuel (SFI) / ignition control systems
Ignition sequence	1 - 2 - 4 - 5 - 3	1 - 5 - 3 - 6 - 2 - 4	1 - 5 - 3 - 6 - 2 - 4
Engine idling speed, rpm	720	590	590
Fuel, rec. octane	91-98 RON	91-98 RON	91-98 RON
Max output, kW (hp)/rpm.	183 (249) / 5400	179 (243) / 6400	224 (304) / 5600
Max torque, Nm/rpm.	360 / 1800-4200	320 / 3200	440 / 2100-4200

POWER AND TORQUE →



Manual gearbox/final drive	MMT6 Z3	3.690/2.682	MMT6 Z3	3.813/2.773
Automatic gearbox/final drive	MPS6-7	3.933/2.682	MPS6-7	3.933/2.682
PERFORMANCE				
Gearbox	Manual	Automatic	Automatic <small>PWD</small>	Automatic <small>AWD</small>
Acceleration, 0-100 km/h (sec)	7.5	7.0	7.9	8.2
Top speed, km/h	240	240	235	250
Fuel consumption l/100 km (Combined)	8.8	8.8	8.9	9.4
CO ₂ , g/km	205	208	219	222

CHASSIS

Suspension	front	MacPherson Strut, Coil Springs, Hydraulic Shock Absorbers, Stabilizer Bar
	rear	Independent Suspension with Coil Springs, Hydraulic Shock Absorbers, Stabilizer Bar
Steering	Power Assisted Rack and Pinion Steering	
Turning circle, curb to curb, 225°width	11.2 m	
Braking system	Antilock Braking System (ABS) with Electronic Brake Distribution (EBD) and Electronic Brake Assistance (EBA)	
Braking distance, 100-0 km/h	38 m	
Brake disc diameter	front	300 mm / 316 mm / 336 mm
	rear	302 mm

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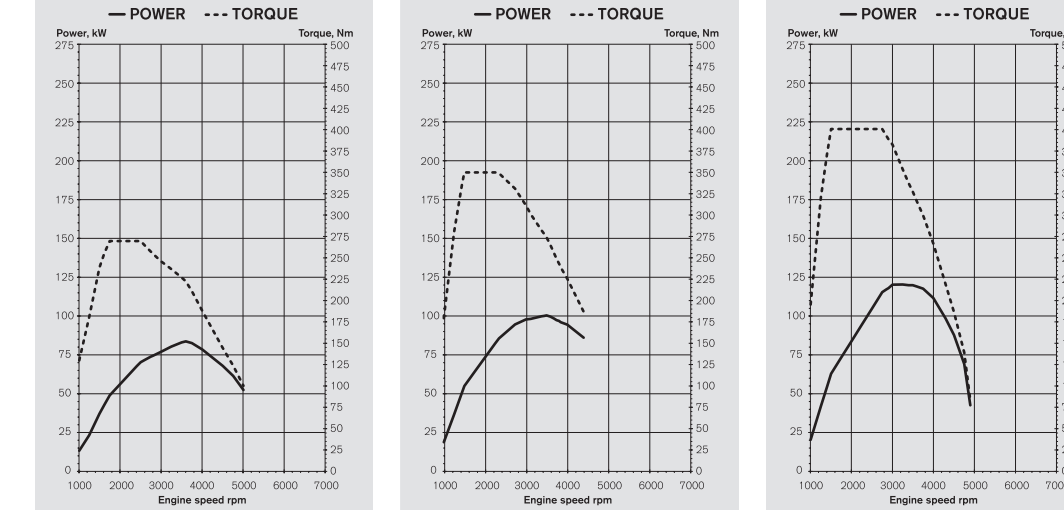
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CONT'D VOLVO S80 →

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ENGINES	D2 (D4162T)	D3 (D5204T7)	D3 (D5204T3)
Type	In-line 4-cyl. turbo diesel	In-line 5-cyl. turbo diesel	In-line 5-cyl. turbo diesel
Configuration	Transverse, front wheel drive	Transverse, front wheel drive	Transverse, front wheel drive
Displacement, cm ³	1560	1984	2400
Bore (mm)	75.0	81.0	81.0
Stroke (mm)	88.3	77.0	77.0
Engine cylinder block material	Aluminium	Aluminium	Aluminium
Cylinderhead material	Aluminium	Aluminium	Aluminium
Compression ratio	16.0:1	16.5:1	16.5:1
Valves, no/cylinder	2	4	4
Camshafts	2	2	2
Engine management system	Electronically controlled common rail direct injection	Electronically controlled common rail direct injection	Electronically controlled common rail direct injection
Ignition sequence	1 - 3 - 4 - 2	1 - 2 - 4 - 5 - 3	1 - 2 - 4 - 5 - 3
Engine idling speed, rpm	790	700	700
Fuel, rec. octane	Cetane Number: Min 48	Cetane Number: Min 48	Cetane Number: Min 48
Max output, kW (hp)/rpm.	84 (115) / 3600	100 (136) / 3500	120 (163) / 3500
Max torque, Nm/rpm.	270 / 1750-2500	350 / 1500-2250	400 / 1500-2750

POWER AND TORQUE →



Manual gearbox/final drive	MMT6 W3	4.063/2.955	M66D F2A	3.770	M66D F2A	3.770
Automatic gearbox/final drive	MPS6-4	3.933/2.682	AW TF80SC	3.075	AW TF80SC	3.075
PERFORMANCE						
Gearbox	Manual	Automatic	Manual	Automatic <small>(Tire restriction)</small>	Manual	Automatic <small>(No S/S/S/S/Tire restriction)</small>
Acceleration, 0-100 km/h (sec)	11.5	12.8	10.4	9.7	9.7	9.7
Top speed, km/h	190	185	205	200	215	210
Fuel consumption l/100 km (Combined)	4.5 / 4.1*	4.5 / 4.1*	4.3	5.0 (4.9)	4.3	6.0 / 5.0 / 4.9
CO ₂ , g/km	119 / 108*	119 / 109*	114	132 (129)	114	158 / 132 / 129

* Tire restriction

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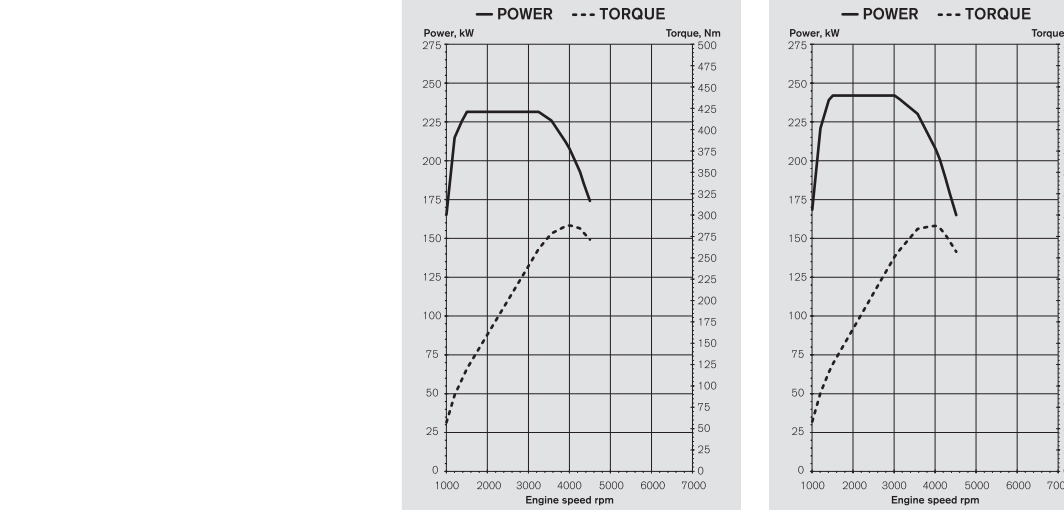
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CONT'D VOLVO S80 →

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ENGINES	D5 (D5244T11)	D5 (D5244T15)
Type	In-line 5-cyl. turbo diesel	In-line 5-cyl. turbo diesel
Configuration	Transverse, front wheel drive	Transverse, front and all wheel drive
Displacement, cm ³	2400	2400
Bore (mm)	81.0	81.0
Stroke (mm)	93.15	93.15
Engine cylinder block material	Aluminium	Aluminium
Cylinderhead material	Aluminium	Aluminium
Compression ratio	16.5:1	16.5:1
Valves, no/cylinder	4	4
Camshafts	2	2
Engine management system	Electronically controlled common rail direct injection	Electronically controlled common rail direct injection
Ignition sequence	1 - 2 - 4 - 5 - 3	1 - 2 - 4 - 5 - 3
Engine idling speed, rpm	740	700
Fuel, rec. octane	Cetane Number: Min 48	Cetane Number: Min 48
Max output, kW (hp)/rpm.	158 (215) / 4000	158 (215) / 4000
Max torque, Nm/rpm.	420 / 1500-3250	440 / 1500-3000

POWER AND TORQUE →



Manual gearbox/final drive	M66D F2A	3.770	M66D F2A	3.770
Automatic gearbox/final drive	MPS6-4	3.933/2.682	AW TF-80SC <small>PWD/AWD</small>	3.200/3.329
PERFORMANCE				
Gearbox	Manual	Automatic <small>PWD</small>	Automatic <small>AWD</small>	Automatic <small>AWD</small>
Acceleration, 0-100 km/h (sec)	7.6	7.8	7.8	7.8
Top speed, km/h	230	225	225	225
Fuel consumption l/100 km (Combined)	4.6	6.1	6.4	6.4
CO ₂ , g/km	120	159	167	167

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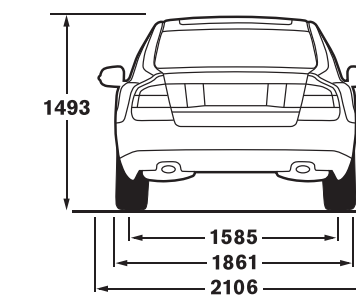
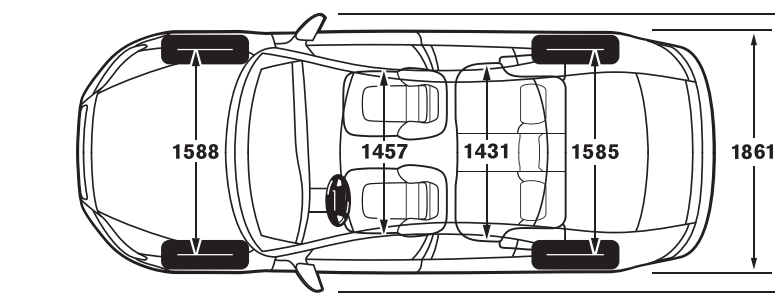
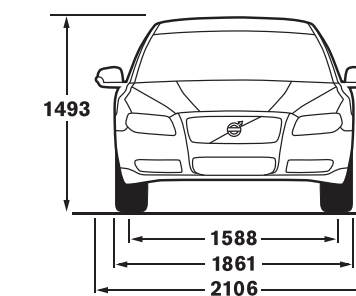
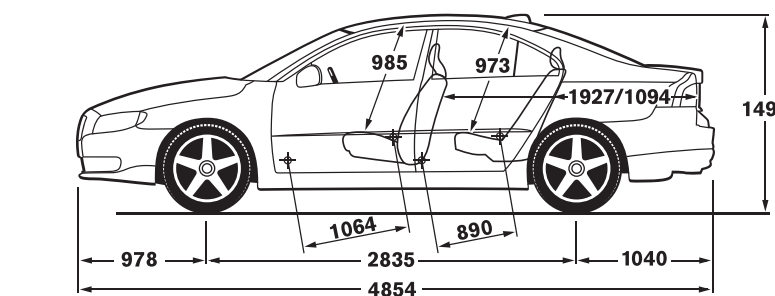
MEASUREMENTS AND VOLUMES	
EXTERIOR MEASUREMENTS (CM)	
Length	485.4
Width (without mirrors)	186.1
Height (including shark fin)	149.3
Wheelbase	283.5
Track, front, (16"/17")	158.8 / 157.8
Track, rear, (16"/17")	158.5 / 157.5
Ground clearance, curb Std / Low sport	15.1 / 13.0

WEIGHTS/MISCELLANEOUS

Curb weight, kg (min-max, depending on setup)	1522-1538
Fuel tank, l	70
Max. trailer weight, kg	1300-2000
Max roof load, kg	100
Drag coefficient, Cd	0.29

INTERIOR MEASUREMENTS (CM)

Headroom without sunroof (front/rear)	985 / 973
Headroom with sunroof (front/rear)	959 / 972
Passenger compartment width at shoulder height (front/rear)	145.7 / 143.1
Leg room (front/rear)	106.4 / 89.0
Cargo volume, including under floor storage (ISO V210)	480
Cargo length at floor from the back of front seatback	192.7
Cargo length at floor from the back of the rear seatback	109.4
Cargo floor height to ground	54.6
Rear opening height (car center line)	87.6
Width of luggage compartment between wheelhouses	113.0



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