

Volvo S80

| | Petrol 2.5T | Petrol 3.2 | Petrol 3.2 AWD | Petrol V8 AWD | Diesel 2.4D | Diesel D5 |
|-------------------------------|---|---|---|---|---------------------------------|---------------------------------|
| ENGINE | | | | | | |
| Engines | B5254T6 | B6324S | B6304T2 | B8444S | D5244T5 | D5244T4 |
| Type | In-line 5 cyl., light press turbo | In-line, 6 cyl., naturally aspirated | In-line 6 cyl. Turbo | 8 cyl. Naturally aspirated | In-line 5 cyl., turbo diesel | In-line 5 cyl., turbo diesel |
| Configuration | FWD | FWD | AWD | AWD | FWD | FWD / AWD |
| Displacement | 2521 cm ³ | 3192 cm ³ | 3192 cm ³ | 4414 cm ³ | 2400 cm ³ | 2400 cm ³ |
| Bore | 83 mm | 84 mm | 84 mm | 94 mm | 81 mm | 81 mm |
| Stroke | 93,2 mm | 96 mm | 96 mm | 79,5 mm | 93,15 mm | 93,15 mm |
| Compression ratio | 9,0:1 | 10,8:1 | 10,8:1 | 10,4:1 | 17,3:1 | 17,3:1 |
| Valves, no/cylinder | 4 ea. | 4 ea. | 4 ea. | 4 ea. | 4 ea. | 4 ea. |
| DOHC / SOHC | DOHC | DOHC | DOHC | DOHC | DOHC | DOHC |
| Engine management system | Integrated fuel (SFI) / ignition control system | Integrated fuel (SFI) / ignition control system | Integrated fuel (SFI) / ignition control system | Integrated fuel (SFI) / ignition control system | Common rail electronic fuelling | Common rail electronic fuelling |
| Ignition sequence | 1 - 2 - 4 - 5 - 3 | 1 - 5 - 3 - 6 - 2 - 4 | 1 - 5 - 3 - 6 - 2 - 4 | 1 - 8 - 4 - 3 - 6 - 5 - 7 - 2 | 1 - 2 - 4 - 5 - 3 | 1 - 2 - 4 - 5 - 3 |
| Engine idling speed | 670 rpm | 650 rpm | 650 rpm | 675 rpm | 700 rpm | 700 rpm |
| Fuel, rec. Octane | For best performance and lowest fuel consumption 98 RON is recommended. For normal driving 95 RON can be used. 91 RON should only be used in exceptional cases. | For best performance and lowest fuel consumption 98 RON is recommended. For normal driving 95 RON can be used. 91 RON should only be used in exceptional cases. | For best performance and lowest fuel consumption 98 RON is recommended. For normal driving 95 RON can be used. 91 RON should only be used in exceptional cases. | For best performance and lowest fuel consumption 98 RON is recommended. For normal driving 95 RON can be used. 91 RON should only be used in exceptional cases. | Cetane Number: Min 48 | Cetane Number: Min 48 |
| Max engine speed | | | | | | |
| Max output | 147 kW (200 hp) / 4800 rpm | 175 kW (238 hp) / 6200 rpm | 175 kW (238 hp) / 6200 rpm | 232 kW (315 hp) / 5950 rpm | 120 kW (163 hp) / 400 rpm | 136 kW (185 hp) / 4000 rpm |
| Max torque | 300 / 25 - 75 Nm/rps | 320 / 53 Nm/rps | 320 / 53 Nm/rps | 440 / 66 Nm/rps | 340 / 29 - 46 Nm/rps | 400 / 33 - 46 Nm/rps |
| Alternator Capacity Ampere | 150 A / 180 A | 150 A / 180 A | 150 A / 180 A | 180 A | 150 A / 160 A | 150 A / 160 A |
| TRANSMISSIONS | | | | | | |
| Transmissions | M66W F3A / AW TF-80SC | AW TF-80SC | AW TF-80SC | AW TF-80SC | M66D F3A / AW TF-80SC | M66D F3A / AW TF-80SC |
| First Gear | 3,385 / 4,148 | 4,148 | 4,148 | 4,148 | 3,385 / 4,148 | 3,385 / 4,148 |
| Second Gear | 1,905 / 2,370 | 2,37 | 2,37 | 2,37 | 1,905 / 2,370 | 1,905 / 2,370 |
| Third Gear | 1,267 / 1,556 | 1,556 | 1,556 | 1,556 | 1,194 / 1,556 | 1,194 / 1,556 |
| Fourth Gear | 0,949 / 1,155 | 1,155 | 1,155 | 1,155 | 0,838 / 1,155 | 0,838 / 1,155 |
| Fifth Gear | 0,775 / 0,859 | 0,859 | 0,859 | 0,859 | 0,652 / 0,859 | 0,652 / 0,859 |
| Sixth Gear | 0,652 / 0,686 | 0,686 | 0,686 | 0,686 | 0,540 / 0,686 | 0,540 / 0,686 |
| Reverse Gear | 3,231 / 3,394 | 3,394 | 3,394 | 3,394 | 3,231 / 3,394 | 3,231 / 3,394 |
| Manuel Gearbox/final drive | 4 | - | - | - | 4 | 4 |
| Automatic Gearbox/final drive | 3,33 | 3,33 | 3,46 | 3,33 | 3,2 | 3,2 |
| Transmissions | - | - | - | - | - | M66E F3A -AWD / AW TF-80SC -AWD |
| First Gear | - | - | - | - | - | 3,750 / 4,148 |
| Second Gear | - | - | - | - | - | 1,905 / 2,370 |
| Third Gear | - | - | - | - | - | 1,194 / 1,556 |
| Fourth Gear | - | - | - | - | - | 0,838 / 1,155 |
| Fifth Gear | - | - | - | - | - | 0,652 / 0,859 |
| Sixth Gear | - | - | - | - | - | 0,540 / 0,686 |
| Reverse Gear | - | - | - | - | - | 3,395 / 3,394 |
| Manuel Gearbox/final drive | - | - | - | - | - | 4 |
| Automatic Gearbox/final drive | - | - | - | - | - | 3,33 |

Volvo S80

| | Petrol 2.5T | Petrol 3.2 | Petrol 3.2 AWD | Petrol V8 AWD | Diesel 2.4D | Diesel D5 |
|---|----------------------------|-------------------|-------------------|-------------------|--------------------------------|---|
| PERFORMANCE | | | | | | |
| Performance | Manual / Automatic | Automatic | Automatic | Automatic | Manual / Automatic | Manual / Automatic |
| Gearbox | M66W F3A / AW TF-80SC | Automatic | Automatic | Automatic | M66D F3A / AW TF-80SC | M66D F3A AW TF-80SC / M66E F3A-AWD AW TF-80SC - AWD |
| Acceleration, 0-100 km/h | 7,7 sec / 8,0 sec | 7,9 sec | 8,2 sec | 6,5 sec | 9,5 sec / 9,5 sec | 8,5 sec / 9,0 sec (FWD) / 8,9 sec / 9,5 sec (AWD) |
| Top speed | 210 km/h / 210 km/h | 240 km/h | 235 km/h | 250 km/h | 220 km/h / 215 km/h | 230 km/h / 225 km/h (FWD) / 220 km/h / 215 km/h (AWD) |
| Fuel consumption (EC 199/100, Combined) | 9,3 l/100km / 10,2 l/100km | 10,3 l/100km | 10,7 l/100km | 11,9 l/100km | 6,3 l/100km / 7,2 l/100km | 6,4 l/100km / 7,3 l/100km (FWD) / 6,9 l/100km / 7,8 l/100km (AWD) |
| CO2 | 223 g/km / 244 g/km | 246 g/km | 255 g/km | 284 g/km | 167 g/km / 189 g/km | 169 g/km / 193 g/km (FWD) / 182 g/km / 206 g/km (AWD) |
| MEASUREMENTS AND VOLUMES | | | | | | |
| Length | 4851 mm | 4851 mm | 4851 mm | 4851 mm | 4851 mm | 4851 mm |
| Width incl. mirrors, folded | 1893 mm | 1893 mm | 1893 mm | 1893 mm | 1893 mm | 1893 mm |
| Width incl. mirrors, outer edge | 2106 mm | 2106 mm | 2106 mm | 2106 mm | 2106 mm | 2106 mm |
| Height (incl shark fen) | 1493 mm | 1493 mm | 1493 mm | 1493 mm | 1493 mm | 1493 mm |
| Wheelbase (L110) | 2835 mm | 2835 mm | 2835 mm | 2835 mm | 2835 mm | 2835 mm |
| Track, front (16"/17") | 1588 mm / 1578 mm | 1588 mm / 1578 mm | 1588 mm / 1578 mm | 1588 mm / 1578 mm | 1588 mm / 1578 mm | 1588 mm / 1578 mm |
| Track, rear (16"/17") | 1585 mm / 1578 mm | 1585 mm / 1578 mm | 1585 mm / 1578 mm | 1585 mm / 1578 mm | 1585 mm / 1578 mm | 1585 mm / 1578 mm |
| Ground clearance (+ 2 persons) | 148 mm | 148 mm | - | 148 mm | 148 mm | 148 mm |
| Ground clearance, AWD (+ 2 persons) | - | - | 148 mm | - | - | 148 mm |
| Serving Weight (Depending on type of engine, gearbox etc.) | 1630 kg / 1810 kg | 1630 kg / 1810 kg | 1630 kg / 1810 kg | 1630 kg / 1810 kg | 1630 kg / 1810 kg | 1630 kg / 1810 kg |
| Total Weight (Depending on type of engine, gearbox etc.) | 2150 kg / 2320 kg | 2150 kg / 2320 kg | 2150 kg / 2320 kg | 2150 kg / 2320 kg | 2150 kg / 2320 kg | 2150 kg / 2320 kg |
| WEIGHT/MISCELLANEOUS | | | | | | |
| Max trailer weight, Unbraked (Max) | 750 kg | 750 kg | 750 kg | 750 kg | 750 kg | 750 kg |
| Max trailer weight, Braked (Max) | 1800 kg | 1800 kg | 1800 kg | 2000 kg | 1600 kg (man) / 1800 kg (auto) | 1600 kg (man) / 2000 kg (auto) |
| Fuel tank, Petrol | 70 l | 70 l | 70 l | 70 l | - | - |
| Fuel tank, Diesel | - | - | - | - | 70 l | 70 l |
| Aerodynamics, (Cd) | 0.29 | 0.29 | 0.29 | 0.29 | 0.29 | 0.29 |
| Aerodynamics, (Frontal area) | 2,34 m2 | 2,34 m2 | 2,34 m2 | 2,34 m2 | 2,34 m2 | 2,34 m2 |
| Max roof load | 100 kg | 100 kg | 100 kg | 100 kg | 100 kg | 100 kg |
| INTERIOR MEASUREMENTS | | | | | | |
| Headroom with sunroof (front/rear) | 959 mm / 972 mm | 959 mm / 972 mm | 959 mm / 972 mm | 959 mm / 972 mm | 959 mm / 972 mm | 959 mm / 972 mm |
| Headroom without sunroof (front/rear) | 985 mm / 973 mm | 985 mm / 973 mm | 985 mm / 973 mm | 985 mm / 973 mm | 985 mm / 973 mm | 985 mm / 973 mm |
| Passenger compartment width at shoulder height (front/rear) | 1457 mm / 1431 mm | 1457 mm / 1431 mm | 1457 mm / 1431 mm | 1457 mm / 1431 mm | 1457 mm / 1431 mm | 1457 mm / 1431 mm |
| Leg room (front/rear) | 1064 mm / 890 mm | 1064 mm / 890 mm | 1064 mm / 890 mm | 1064 mm / 890 mm | 1064 mm / 890 mm | 1064 mm / 890 mm |
| Hip room (front/rear) | 1391 mm / 1389 mm | 1391 mm / 1389 mm | 1391 mm / 1389 mm | 1391 mm / 1389 mm | 1391 mm / 1389 mm | 1391 mm / 1389 mm |
| Cargo length at floor from the back of front seatback | 1927 mm | 1927 mm | 1927 mm | 1927 mm | 1927 mm | 1927 mm |
| Cargo length at floor from the back of the rear seatback | 1094 mm | 1094 mm | 1094 mm | 1094 mm | 1094 mm | 1094 mm |
| Lift over height | 691 mm | 691 mm | 691 mm | 691 mm | 691 mm | 691 mm |
| Rear opening height | 368 mm | 368 mm | 368 mm | 368 mm | 368 mm | 368 mm |
| Height between luggage floor and parcel shelf | 492 mm | 492 mm | 492 mm | 492 mm | 492 mm | 492 mm |
| Luggage floor, height to ground | 546 mm | 546 mm | 546 mm | 546 mm | 546 mm | 546 mm |
| Width of luggage compartment between wheelhouses | 1130 mm | 1130 mm | 1130 mm | 1130 mm | 1130 mm | 1130 mm |
| Rear opening width at floor, min. | 876 mm | 876 mm | 876 mm | 876 mm | 876 mm | 876 mm |

| | Petrol 2.5T | Petrol 3.2 | Petrol 3.2 AWD | Petrol V8 AWD | Diesel 2.4D | Diesel D5 |
|---|--|--|--|--|--|--|
| CHASSIS | | | | | | |
| Suspension front | MacPherson Strut, Coil Springs, Hydraulic Shock Absorbers, Stabilizer Bar | MacPherson Strut, Coil Springs, Hydraulic Shock Absorbers, Stabilizer Bar | MacPherson Strut, Coil Springs, Hydraulic Shock Absorbers, Stabilizer Bar | MacPherson Strut, Coil Springs, Hydraulic Shock Absorbers, Stabilizer Bar | MacPherson Strut, Coil Springs, Hydraulic Shock Absorbers, Stabilizer Bar | MacPherson Strut, Coil Springs, Hydraulic Shock Absorbers, Stabilizer Bar |
| Suspension rear | Independent Suspension with Coil Springs, Hydraulic Shock Absorbers, Stabilizer Bar | Independent Suspension with Coil Springs, Hydraulic Shock Absorbers, Stabilizer Bar | Independent Suspension with Coil Springs, Hydraulic Shock Absorbers, Stabilizer Bar | Independent Suspension with Coil Springs, Hydraulic Shock Absorbers, Stabilizer Bar | Independent Suspension with Coil Springs, Hydraulic Shock Absorbers, Stabilizer Bar | Independent Suspension with Coil Springs, Hydraulic Shock Absorbers, Stabilizer Bar |
| Steering | Power Assisted Rack and Pinion Steering | Power Assisted Rack and Pinion Steering | Power Assisted Rack and Pinion Steering | Power Assisted Rack and Pinion Steering | Power Assisted Rack and Pinion Steering | Power Assisted Rack and Pinion Steering |
| Steering (angle/angle) | 16 | 16 | 16 | 16 | 16 | 16 |
| Turning circle (Curb to curb) | 11,2 m / 12,2 m | 11,2 m / 12,2 m | 11,2 m / 12,2 m | 11,2 m / 12,2 m | 11,2 m / 12,2 m | 11,2 m / 12,2 m |
| Turning circle (Wall to wall) | 11,7 m / 12,7 m | 11,7 m / 12,7 m | 11,7 m / 12,7 m | 11,7 m / 12,7 m | 11,7 m / 12,7 m | 11,7 m / 12,7 m |
| Turns of steering wheel end to end | 2,8 / 2,6 | | | | | |
| Braking system | Antilock Braking System (ABS) with Electronic Brake Distribution (EBD) and Electronic Brake Assistance (EBA) | Antilock Braking System (ABS) with Electronic Brake Distribution (EBD) and Electronic Brake Assistance (EBA) | Antilock Braking System (ABS) with Electronic Brake Distribution (EBD) and Electronic Brake Assistance (EBA) | Antilock Braking System (ABS) with Electronic Brake Distribution (EBD) and Electronic Brake Assistance (EBA) | Antilock Braking System (ABS) with Electronic Brake Distribution (EBD) and Electronic Brake Assistance (EBA) | Antilock Braking System (ABS) with Electronic Brake Distribution (EBD) and Electronic Brake Assistance (EBA) |
| Brake disc diameter (front) | 300 mm / 316 mm / 336 mm | 300 mm / 316 mm / 336 mm | 300 mm / 316 mm / 336 mm | 300 mm / 316 mm / 336 mm | 300 mm / 316 mm / 336 mm | 300 mm / 316 mm / 336 mm |
| Brake disc diameter (rear) | 302 mm | 302 mm | 302 mm | 302 mm | 302 mm | 302 mm |
| Brake disc thickness (front) | 28 mm | 28 mm | 28 mm | 28 mm | 28 mm | 28 mm |
| Brake disc thickness (rear) (Solid EPD/DiH/ Ventilated EPD) | 11 mm / 12 mm / 22 mm | 11 mm / 12 mm / 22 mm | 11 mm / 12 mm / 22 mm | 11 mm / 12 mm / 22 mm | 11 mm / 12 mm / 22 mm | 11 mm / 12 mm / 22 mm |
| Braking distance 100-0 km/h | 38 m | 38 m | 38 m | 38 m | 38 m | 38 m |