

2006 model year

VOLVO S80

OVERVIEW

In Brief:

- Large, refined executive saloon.
- The flagship of Volvo's 'S'-range of saloons (S40, S60, S80).
- Higher standard specifications than most other premium brand rivals.
- Specification enhancements for 2006: leather upholstery, RTI satellite navigation with RDS-TMC, chronograph dials (from T6) now standard.
- Five and six-cylinder engines, from 140bhp-272bhp.
- Superior Volvo safety standards, inc: WHIPS, SIPS, IC, DSTC, EBD etc.
- High Performance and Premium audio systems with Dolby Pro Logic II Surround Sound™, and 20 Gb digital jukebox available for up to 400 albums.
- Healthier interiors with 'Oeko-tex' compliant, emissions-free materials.
- S80 launched 'new Volvo' design, subsequently introduced across the range.
- Launched in 1998, refreshed in 2003.
- SE Lux and Executive trim levels.

The S80 is the flagship of Volvo's 'S' range of stylish saloons, offering a natural progression from its compact S40 and coupe-like S60 siblings, with the ultimate in space, comfort and prestige.

Its eye-catching, bold styling easily distinguishes the S80 from other premium brand rivals in the executive saloon sector, and has helped it maintain steady a sales performance in a sector showing a gradual decline.

At its launch in 1998, the S80 heralded a new era of bolder designs for the Volvo range. As a consequence the S80 still looks fresh and modern today, and only required subtle, detailed interior, exterior and technical refinements in 2003 for the new S80 models. This also included the introduction of Volvo's advanced, active 'Four-C' chassis option, offering a choice of 'Comfort' and 'Sport' settings at the touch of a button.

The S80 is also surprisingly affordable with higher standard specifications than most other premium rivals, including a minimum of: Electronic Climate Control; High Performance audio system with 6xCD, 4x50W amplifier and Dolby Pro Logic II Surround Sound™; alloy wheels; cruise control; electric windows; information centre and DSTC (Dynamic Stability and Traction Control), plus the usual abundance of Volvo's advanced safety features.

For 2006, the S and SE models were replaced with the SE Lux reflecting further enhancements to standard specifications, including the addition of leather upholstery and Volvo's RTI satellite navigation system with RDS-TMC which receives and displays details of any traffic problems. An Executive model still tops the range.

For performance and economy, the S80 offers a wide range of Volvo engines. This includes both five and six cylinder, normally aspirated and turbo engines, ranging from 140bhp to 272bhp.

Volvo's Torslanda plant in Gothenburg, Sweden, produced nearly 30,000 S80s last year, for which the USA is the largest market, followed by the UK.

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- High Performance and Premium audio systems with Dolby Pro Logic II Surround Sound™, and digital jukebox available.
- Healthier interiors with 'Oeko-tex' compliant, emissions-free materials.
- S80 launched 'new Volvo' design, subsequently introduced across the range.
- Launched in 1998, refreshed in 2003.
- SE Lux and Executive trim levels.
- Produced at Volvo's Torslanda plant in Gothenburg, Sweden.

The S80 is the flagship of Volvo's 'S' range of stylish saloons, offering a natural upward progression from its compact S40 and coupé-like S60 siblings, and the ultimate in space, comfort and refinement.

Volvo's Torslanda plant in Gothenburg, Sweden, produced nearly 30,000 S80s in 2004, and also makes the V70, XC70 and XC90. Nearly 50 per cent of S80s are sold to customers in the USA, which is by far the S80's largest market, followed by the UK – where over 80 per cent are the D5 SE model – and then by Sweden, China and Germany.

Design concept

Its eye-catching, bold exterior styling with low drag co-efficient of 0.28, and typically Scandinavian simple, clean interior design, easily distinguish the S80 from its other premium brand rivals in a large executive saloon sector dominated by the German marques.

With the help of Volvo's then design director, Peter Horbury, the S80 heralded a new era of bold design for Volvo when it was launched in 1998, which has subsequently been introduced across the Volvo range. It is a credit to its fresh and modern design that it has only required subtle, detailed interior and exterior refinements to improve its elegance and driving dynamics for the new S80 range in 2003.

Further exterior design tweaks for 2006 include:

- Brushed aluminium door mirrors.
- Clear lens front side marker lights.
- Graphite 'egg-crate' grille.

Driving Dynamics

Performance and refinement are an important part of the S80 range. This includes a generous range of engines, including both five and six cylinder, normally aspirated and turbo units.

The engine range was streamlined slightly for 2006, with the 2.9 and Bi-fuel models discontinued. The remaining engine line-up still offers plenty of choice, and the SE Lux variant starts with two normally aspirated, five-cylinder 2.4-litre petrol units with power outputs of 140bhp and 170bhp, respectively. The rest of the range are turbocharged engines, consisting of two more five-cylinder engines - a 2.0T with 180bhp, and a 2.5T with 210bhp – plus a range-topping, six-cylinder, 2.9-litre T6 with 272bhp and Geartronic transmission as standard. But the most popular engine, accounting for over 80 per cent of UK S80 sales, is Volvo's advanced and refined five-cylinder, common rail D5 turbo diesel with 163bhp. The T6

petrol or D5 diesel units are also available in the exclusive S80 Executive model combined with Geartronic and automatic transmission, respectively.

The S80's sophisticated multi-link rear suspension helps the car turn in and out of curves at high speed by steering the rear wheels slightly in unison with the front wheels. But to help enjoy this performance further, there is also the option of Volvo's advanced active 'Four-C' chassis, which at the touch of a button offers the choice of 'Comfort' and 'Sport' suspension settings. This option is also available as part of a 'Sports Handling Pack' - which also includes speed dependent steering and larger 18in alloy wheels.

The advanced Four-C technology continuously analyses huge amounts of information up to 500 times a second and responds instantly by adjusting each of the shock absorbers individually to suit road and driving conditions. It also interacts with the DSTC (Dynamic Stability and Traction Control) – the engine, brakes, steering and other functions – to maximise the car's response and handling. This all happens quickly and smoothly, and will also automatically step in to help control the car in an emergency situation no matter which chassis mode is currently selected.

Engine	2.4 (140)	2.4 (170)	2.0T	2.5T	T6	D5
Type	2435cc 5cyl/20v turbo	2435cc 5cyl/20v turbo	1984cc 5 cyl/20v turbo	2521cc 5 cyl/20v turbo	2922cc 6 cyl/24v twin-turbo	2401cc 5cyl/20v turbo
Fuel	Petrol	Petrol	Petrol	Petrol	Petrol	Diesel
Power	140 bhp	170 bhp	180 bhp	210 bhp	272 bhp	163 bhp
Torque Nm at rpm	240 Nm at 1850rpm	225 Nm at 1750rpm	240 Nm at 1850rpm	320 Nm at 1500rpm	380 Nm at 1800rpm	340 Nm at 1750rpm
0-62mph manual/auto	10.5 man 11.4 auto	9.0 man 9.9 auto	9.1 man 9.8 auto	7.3 man 7.7 auto	- 7.2 auto	9.8 man 10.2 auto
Top speed manual/auto	127 man 124 auto	137 man 134 auto	140 man 134 auto	146 man 140 auto	- 155 auto	130 man 130 auto
CO2 g/km	212 man 229 auto	214 man 232 auto	214 man 234 auto	219 man 239 auto	- 268 auto	172 man 204 auto
MPG man/auto						
Urban	22.8/20.9	22.8/20.6	22.6/20.3	21.7/20.0	-/17.7	31.4/26.2
Extra urban	41.5/38.7	40.4/38.7	40.9/38.2	40.4/36.7	-/34.0	55.4/47.1
Combined	31.7/29.4	31.4/29.1	31.4/28.8	30.7/28.2	-/25.4	43.5/36.7
Emissions standard	Euro IV	Euro IV	Euro IV	Euro IV	Euro IV	Euro III

Service intervals: 18,000 miles/1 year for 2.4 (140), 2.4 (170), 2.0T, 2.5T; 12,500 miles/1 year for D5 and T6.

All five-cylinder petrol or diesel models, are fitted with a five-speed manual gearbox as standard, or also available with the optional five-speed automatic transmission. The six-

cylinder T6 engine has Volvo's Geartronic transmission as standard, which also allows the driver to sequentially change gear like a manual, if preferred.

Quality and Equipment

For 2006, the S80 range is now available in two trim levels: SE Lux and Executive. To reflect the enhanced standard specifications for 2006, the new SE Lux variant has been introduced to replace the former S and SE variants.

Competitive prices and high levels of luxury and refinement make the S80 range surprisingly good value with higher standard specifications than other premium brand rivals.

The standard specification of the SE Lux variant includes:

- Alarm with immobiliser, and panic function on key fob.
- Electronic Climate Control with Volvo's AQS (Air Quality System) and pollen filter.
- High Performance audio system with 6xCD, 4.x50W amplifier, 9 speakers and Dolby Pro Logic II Surround Sound™.
- 17in Alloy wheels.
- Cruise control.
- Steering wheel remote controls for audio system, cruise control and telephone (if fitted).
- Information centre.
- DSTC (Dynamic Stability and Traction Control) with EBA.
- Superior Volvo safety standards: SIPS, WHIPS, IC, ABS with EBD, etc
- Power driver's seat with memory.
- Power adjustable and heated door mirrors with water repellent glass.
- Dynamic chassis.
- Auto-dimming rear view mirror.
- Grocery bag holder in boot.
- Key-integrated remote control central locking with deadlocking system.
- Split-folding rear seats (SE Lux only), plus forward folding front passenger seat to accommodate for long loads.
- Front fog lights.

For 2006 the standard specification was significantly enhanced to include:

- RTI satellite navigation system with RDS-TMC.
- Sport, leather-faced upholstery.

- Chronograph dials (from T6) in aluminium and black chrome.
- Black chrome aluminium inlays (or choice of walnut wood effect or mesh aluminium).
- Brushed aluminium door mirrors.
- Clear lens front side marker lights.
- Graphite 'egg-crate' grille.

In addition, it is also now possible to order a new, optional interior upholstery with an Off-black and light Arena combination with matching off-black luxury floor mats with Arena piping.

Despite the increase in specifications, prices for the 2006 SE Lux continue at the same prices as outgoing 2005 SE models.

For the ultimate in luxury, the Executive model tops the S80 range and comes complete with:

- Bi-Xenon headlights with wash/wipe cleaning system.
- Metallic/pearlescent paint.
- Full body coloured sills and lower bumper mouldings.
- Executive badging.
- Umbrella holder.
- 17in Interceptor alloy wheels.
- Walnut wood inlays.
- Executive soft leather upholstery with contrast piping.
- DVD player and twin TV screens in the back of the front head restraints with IR headphones, TV tuner, remote control and games console socket.
- Built-in rear fridge, glass compartment with two glasses.
- Premium sound system with 6xCD, 4x75W amplifier, 8 Dynaudio speakers plus 1 centre speaker, with Dolby Pro Logic II Surround Sound™.
- Power rear window sun curtain.
- Rear cupholders.
- Power driver's (with memory) and passenger's front seats with door mirror memory.
- Heated front and rear seats with additional rear legroom.
- Power folding rear head restraints.
- Rear ashtray and power outlet.

Options and accessories

Naturally, Volvo offers a range of options and accessories to allow customers to personalise their S80 to meet their needs, including:

- Digital jukebox – using mp3 format enables up to 500 hours of music.

- Bergen Alcantara/leather sports upholstery (SE Lux only).
- Walnut wood trim (Std Executive).
- Engine badge deletion.
- Polished 17in alloy wheels.
- TV tuner for RTI screen (SE Lux only).
- Integrated telephone, with handset.
- Volvo On Call (including integrated telephone).
- Active 'Four-C' chassis concept.
- Premium audio sound system (Std Executive).
- Heated front seats (SE Lux only).
- Front and rear park assist.
- Load compensating suspension.
- Passenger airbag cut off switch.
- Water repellent laminated side windows.
- ISOFIX attachments (rear seats).
- Integrated child seat in rear armrest.
- Speed dependent steering.

For added convenience and value, some options are grouped in special packs:

- Winter pack: (SE Lux only) Heated front seats, headlamp wash/wipe and luxury floor mats.
- Bi-Xenon pack: (SE Lux only) Bi-Xenon headlamps, heated front seats, headlamp wash/wipe and luxury floor mats.
- Family pack: (SE Lux only) Integrated child seat (rear centre armrest) and manual sun curtains (rear shelf and rear doors).
- Premium pack: (SE Lux only) Power passenger seat, Premium Sound audio system with 6xCD with Dolby ProLogic II surround Sound™, 4x75W amplifier and 13 speakers, walnut wood trim, Bi-Xenon headlamps with wash/wipe, heated front seats, luxury floor mats, power folding rear headrests, and Bergen Alcantara/Leather sports upholstery.
- Communications pack: (SE Lux only) Volvo On Call, integrated GSM telephone, TV tuner for RTI system.

Sports Handling pack:

SE Lux: 18in Capella (black chrome) or 18in Nebula (BBS) alloy wheels (234/40 R19 tyres), active Four-C chassis and speed dependent steering.

Executive: 18in Capella (silver) or 18in Nebula (BBS) alloy wheels (234/40 R19 tyres), active Four-C chassis and speed dependent steering.

Safety

As you'd expect from Volvo, the S80 has been developed and thoroughly crash tested by Volvo's engineers at its award-winning Safety Centre and features a full complement of Volvo's safety features: Dual-stage front airbags, SIPS (Side Impact Protection System) plus side airbags, WHIPS (Whiplash Protection System), IC (Inflatable Curtain) and five three-point safety belts combine to offer class-leading occupant protection.

In addition, Volvo offers a passenger airbag cut-off switch to enable child seats to be carried in the front of the car, plus integrated booster seats for the rear, and ISOFIX mounting points.

Little wonder that the S80 tops its league in international safety scoring systems, including the UK's Consumers Association *Which?* annual safety ratings and achieved a four star EuroNCAP crash test rating (the maximum when tested).

More recently, to improve the driver's visibility and help avoid accidents, Volvo has introduced water repellent glass for door mirrors (standard on some models) and side windows (optional).

Environment

Volvo's 'clean inside and out' environmental programme reflects its continuing commitment to the environment. Its plants are some of the automotive world's cleanest factories, and 85 per cent of each car can be recycled, plus every new Volvo is backed by an EPI (Environmental Product Information) which is available at www.volvocars.com/epi. Volvo also produces an annual Corporate Citizenship report, available on www.volvocars.com/citizenship.

Like all Volvos, the S80's interior is free from allergy inducing emissions, and an active carbon filter ensures dust and exhaust particles do not enter the cabin, while an Air Quality System (AQS) shuts down the air input if outside air is too dirty.

All the five cylinder petrol engines in the Volvo S80 range are available with Volvo's PremAir® - a special catalytic coating on the radiator which converts up to 75 per cent of the harmful ground-level ozone passing through it into pure oxygen. In addition, they already meet the stringent EU 2005 emissions requirements.