

Press Release

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Volvo S80 - model year 2013

The large and exclusive Volvo S80 sedan blends a distinctive and elegant design, an exclusive interior, a sharp chassis and an upgraded engine range.

The 2013 version includes a number of features that further emphasise the company's focus on cars designed around modern car buyers:

The diesel offer is extended with a new 5-cylinder, 2.0-litre turbo diesel, all diesel-powered versions have CO₂ emissions at 120 g/km or below - and the estate can be equipped with the new systems Road Sign Information, Active High Beam and Tunnel Detection.

With the Executive version as well as R-design and the special long wheel-based S80L specially produced for the Chinese market, the Volvo S80 is a real premium sedan.

EXTERIOR

Luxury sedan look

On the outside the Volvo S80 gives a long, wide and broad impression. The grille's large iron mark and the brightwork (on the air intakes, the doors' lower parts and below the tail lamps) enhance the car's distinctive impression and give the front added presence. The headlamps, which are positioned lower than on the earliest S80 models, follow the curvature of the front and are extended along the side and up towards the bonnet, creating a gentle smile at the front.

The doors are convex and pronounced in shape. They include the rearmost side window. The sills have a distinct profile, creating a visually low centre of gravity and imparting a steady and stable appearance. In order to give the Volvo S80 the right aura of elegance and create an image of being in constant motion, the car has sweeping lines with a comet-shaped profile, an almost imperceptible transition between the rear window and the boot and a cut-off tail section.

Other recent upgrades include redesigned headlamps and LED turn indicators integrated into the door mirrors.

A new exclusive forged aluminium 18-inch wheel "Ymir" gives the car an even more expressive design. The wheel is available in silver bright glossy finish and in light grey.

S80 Executive - enhancing the experience

The S80 Executive model represents a very competitive alternative for customers who value refined Scandinavian elegance in combination with contemporary engineering.

The Executive badge gives a discreet hint that this is an S80 beyond the norm. Inside, the S80 Executive has an instrument panel top in leather, available in espresso brown or off black.

Among the interior details that give the S80 Executive a more exclusive character are ventilated soft leather seats with massage function, leather door panels, an integrated analogue clock on the instrument panel and the aluminium centre consol storage.

Specially designed, extra thick carpets reinforce the sober impression. The opportunity to install a fridge in the rear seat, combined with a set of Swedish crystal glasses, also contributes to the enhanced feeling of luxury and comfort.

INTERIOR

Volvo Sensus - refined infotainment

Volvo Sensus is an excellent example of how Volvo Cars refines the driver environment. All information is presented on a five-inch or seven-inch colour screen in the upper part of the centre stack. The screen is positioned high up to make it easy for the driver to keep his or hers eyes on the road.

All the functions can be controlled via buttons built into the steering wheel or via touch buttons located just below the colour screen.

The Bluetooth connection allows hands-free phone conversations as well as music streaming from a preferred Bluetooth enabled portable music player. Volvo is actually the only brand to offer Bluetooth music streaming throughout the entire vehicle range.

Keep in touch via mobile application

A mobile application that makes sure that the driver can stay in touch with the parked car via an iPhone or Android smart phone. The mobile application is an extension of Volvo On Call. Owners of all new models with Volvo On Call can download the application that opens up a range of connectivity possibilities. The mobile app is free and downloaded via the iPhone and Android application stores. The app is designed to offer the owner an intuitive, easy-to-use relationship with the car from a distance.

Exclusivity and comfort

Inside the car the spotlight is on increased exclusivity and comfort.

The soft, sumptuous leather seats with matching stitching are accompanied by door panels echoing the same trim. The super-slim floating centre stack has a silk metal frame that emphasises its original design and enhances its exclusive feel.

The instruments in the refreshed Volvo S80 have exclusive aluminium dials and the new generation of steering wheels. The décor trim with silk matt metal-effect finish on the four-spoke steering wheel is also found in the gear selector, around the starter button. Since eight out of ten customers specify leather upholstery, Volvo's designers have focused on comfort by creating unbeatable seating and side support, accentuated further by the superb quality of the soft Scandinavian hide.

Customers with more individual tastes will be able to select upholstery from the exclusive Executive range, which features classic and sober styles.

Ventilated seats available

If the car is equipped with power front seats they can be optionally specified with upholstery in perforated and ventilated leather. Fans in the seat cushion quickly reduce cushion temperature to a pleasant level and contribute to high seating comfort. The rear seat splits and folds. The front passenger seat backrest can also be folded. Sun blinds for the rear doors are available as an option.

CHASSIS

Choice of chassis

The Volvo S80 sports chassis is a more dynamic alternative to the comfort-enhancing standard chassis, which offers limousine ride comfort. Customers thus have the opportunity to tailor their cars to suit their wishes - for inspired and enthusiastic driving or relaxed long-distance comfort.

Rigid sports chassis

In order to meet the wishes of S80 customers more interested in an enthusiastic driving style, Volvo has made the sports chassis far more rigid than before.

The car has been lowered 20 millimetres at the front and 15 millimetres at the rear. This not only results in a more stable chassis, it also carves out a more powerful and compact visual profile for the car.

The springs are shorter and firmer. The shock absorbers have greater damping ability, on both compression and extension strokes. All the mountings on the sub-frame have harder bushings. The anti-roll bars have also been made firmer to give increased side stability in curves. This results in crisp steering feel and good control, particularly in more active driving. This is further aided by the steering gear that has been tailored to provide quicker response and increased feel, giving more direct contact with the tyres and road surface.

In order to provide additional stability, the sports chassis is fitted with automatic levelling as standard. It keeps the car's body parallel with the road surface whatever the driving conditions, both when fully loaded and with only the driver on board.

Comfort chassis with enhanced limousine feel

In parallel with the development of the sports chassis, the standard chassis has been given a distinctly more comfortable feel than before, with somewhat softer springs and less damping. It is designed to offer long-distance ride comfort of absolute limousine quality, not least in the rear seat.

Active chassis with Four-C - and three choices

The car can be optionally specified with an active chassis based on Volvo's Four-C technology. It is an advanced self-regulating chassis system that uses a number of sensors to continuously monitor the car's behaviour. The dampers are adjusted to suit the current driving conditions in

mere fractions of a second.

DSTC is standard

DSTC (Dynamic Stability and Traction Control) is standard. This is a stability-enhancing system that when necessary reduces engine torque and applies carefully calculated braking power to reduce the risk of a skid.

All Wheel Drive with Instant Traction

The T6 model of the all-new Volvo S80 has Volvo's All Wheel Drive as standard. AWD is also available on the 3.2 petrol version and the D5 diesel.

The All Wheel Drive system incorporates the latest technology from Haldex. The new AWD generation features a new, six-piston radial pump, direct-driven by a powerful electric motor. The reduced weight contributes to improved fuel economy.

This latest AWD generation ensures the excellent handling and powerful driving characteristics that Volvo performance customers appreciate.

DRIVELINE

The firm action to cut CO₂-emissions has resulted in lowered fuel consumption throughout the engine programme. All diesel-powered versions of the S80 now have CO₂ emissions at 120 g/km or below.

Powerful T6 version

The T6 petrol engine has a displacement of 3.0 litres and pumps out 304 hp and no less than 440 Nm of torque. Fuel consumption is 9.9 l/100 km (EU Combined). The engine's power is delivered to the wheels via Volvo's second-generation six-speed automatic Geartronic transmission.

3.2-litre naturally aspirated engine

The six-cylinder 3.2-litre naturally aspirated engine offers 243 hp and maximum torque is 320 Nm.

Direct-injected engines

The S80 is also available with the 2-litre GTDi (Gasoline Turbocharged Direct Injection) T5 producing 240 hp and torque of 320 Nm. Furthermore, there is a 1.6-litre GTDi engine: T4 with 180 hp and fuel consumption at 6.6 l/100 km in the S80 with manual gearbox. This corresponds to CO₂ emissions at 152 g/km.

Upgraded D5 with 215 hp

D5 with 215 hp

The five-cylinder D5 turbodiesel, has 215 hp and 440 Nm of torque. The D5 with manual gearbox has fuel consumption at 4.6 l/100 km (CO₂ emissions at 120 g/km).

New diesel with 136 hp

Volvo Car Corporation extends the diesel offer with a new entry-level 5-cylinder, 2.0-litre turbo diesel. The D3 engine has an output of 136 hp and maximum torque at 350 Nm. It is available both with a manual and an automatic gearbox. All variants have start/stop.

The diesel engine offer also includes the D4 with 163 hp. Fuel consumption (EU Combined) in both engines is just 4.3 l/100 km (114 g/km) with the manual gearbox.

D2 diesel at 119 g/km

The D2 version of the S80 features a 1.6-litre diesel engine. The engine produces 115 hp and 270 Nm of torque. The D2 engine combined with automatic Powershift gearbox comes with the same low fuel consumption and CO₂ levels as the manual version: 4.5 l/100 km (EU Combined), corresponding to CO₂ emissions at 119 g/km.

FlexiFuel on certain markets

In certain markets, the S80 can also be specified with a 1.6-litre GTDi engine in an ethanol-powered FlexiFuel version with 180 hp. The customer can choose between Powershift and a manual gearbox.

SAFETY AND SUPPORT

Crumple zones made using different grades of steel

The patented front body structure is divided into zones, each of which has a different task during the deformation sequence. The outer zones are responsible for most of the deformation. The closer the collision forces get to the passenger compartment, the less the material deforms.

In order to give each zone the right properties, different grades of steel are used in different structures, a total of four different grades. Apart from regular body steel, three different grades of high-tensile steel are used: High Strength Steel, Extra High Strength Steel and Ultra High Strength Steel.

Strong side structure

To optimise side-impact protection, the body's entire side structure features a well-balanced combination of high-tensile steel of different grades (High Strength Steel, Extra High Strength Steel and the extremely strong Ultra High Strength Steel). The various components and grades of steel interact to minimise penetration into the passenger compartment. The aim is instead to get the entire car to move sideways - away from the colliding vehicle.

Second-generation WHIPS system

Volvo's system for avoiding neck injuries - WHIPS (Whiplash Protection System) - is one of the most effective on the market. In the event of a rear-end collision the front seat backrest accompanies the passenger's initial body movement and dampens the incoming force rather like one's hand does when catching a ball. The S80 features a further-developed generation of WHIPS to ensure that the damping motion is gentle and to provide good contact between the head and head restraint throughout the impact sequence.

Also with Pedestrian Detection

Pedestrian Detection with Full Auto Brake is also available in the Volvo S80. It is a support function designed to help the driver detect dangerous situations and it can actively help avoid the nightmare scenario of hitting a pedestrian.

The technology uses radar and a camera to monitor pedestrians in front of the car. The system initially provides a warning to alert the driver so he or she can brake or steer clear of the pedestrian. If the driver does not respond, the car automatically brakes with full force moments before the collision becomes unavoidable. With automatic braking, collisions can in certain circumstances be avoided at speeds below 35 km/h.

Collision Warning with Full Auto Brake

Collision Warning with Full Auto Brake is a refined warning system that initially warns the driver and pre-charges the brakes. The brakes are automatically activated if the driver doesn't act when a rear-end collision with a moving or stationary vehicle is imminent.

New driver support systems

The S80 can also be equipped with the following new systems:

- Road Sign Information supports the driver by displaying road signs in the instrument cluster.
- The new Active High Beam technology offers automatic switching between high and low beam at the right moment.
- Tunnel Detection automatically turns on the headlight when the car enters a tunnel.

City Safety

With City Safety, the car automatically brakes if the driver fails to react in time when the vehicle in front slows down or stops - or if he or she is driving too fast towards a stationary object. New is that the system is active in speeds up to 50 km/h.

Driver Alert Control (DAC)

Driver Alert Control alerts the driver when his or her concentration level is affected, for instance during long journeys. Driver Alert Control monitors the car's movements and assesses whether the vehicle is being driven in a controlled or uncontrolled way.

Lane Departure Warning (LDW)

Lane Departure Warning is activated via a button in the centre stack and it alerts the driver with a gentle warning sound if the car crosses one of the road markings without an obvious reason such as use of the turn indicator.

BLIS and IDIS for better control

The Volvo S80 is also equipped with BLIS (Blind Spot Information System) and IDIS (Intelligent Driver Information System), two innovations that help the driver maintain better control over the traffic situation. BLIS registers if another vehicle is in the offset rear blind spot alongside the car and alerts the driver via a visual signal. IDIS helps stop the driver being distracted by non-essential information in pressing situations, for instance by delaying incoming phone calls or text

messages.

Adaptive cruise control

Adaptive Cruise Control (ACC) continuously monitors the gap to the vehicles in front and automatically adjusts the car's speed to ensure that this gap does not shrink too much. The Queue Assist on cars with automatic gearbox operates all the way down to standstill. The car accelerates automatically once the traffic starts moving again.

Dual Xenon and Active Bending Lights

In order to contribute to the best possible visibility during night-time driving on curving and twisting roads, the car can be equipped with Active Bending Lights - swivelling headlamps that follow the sweeps and bends of the road. By using the Dual Xenon light technology it give a 90 per cent boost to the driver's vision round bends at night. The Dual Xenon gas discharge lamps expand the vision range at nights by about 230 per cent. This means the driver can gain a further 45 metres for braking.

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Descriptions and facts in this press material relate to Volvo Cars' international car range. Described features might be optional. Vehicle specifications may vary from one country to another and may be altered without prior notification.

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