

# SAFETY FEATURES

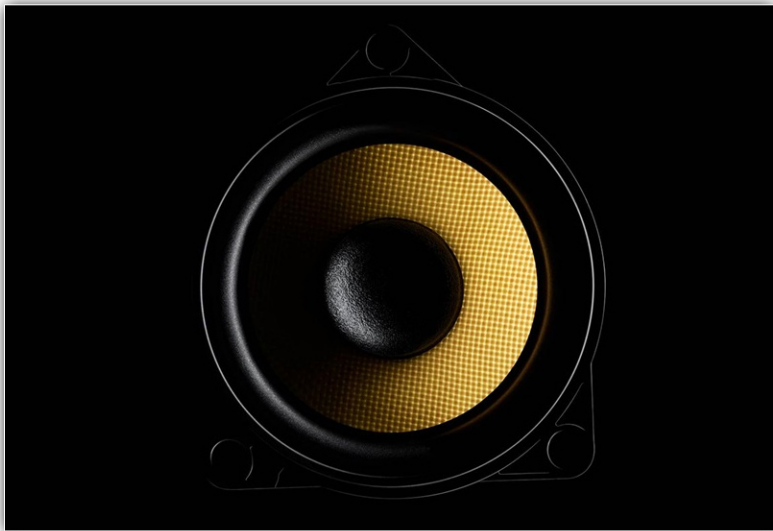
## WORLD FIRST

When it comes to innovations, our horizons know no limits.



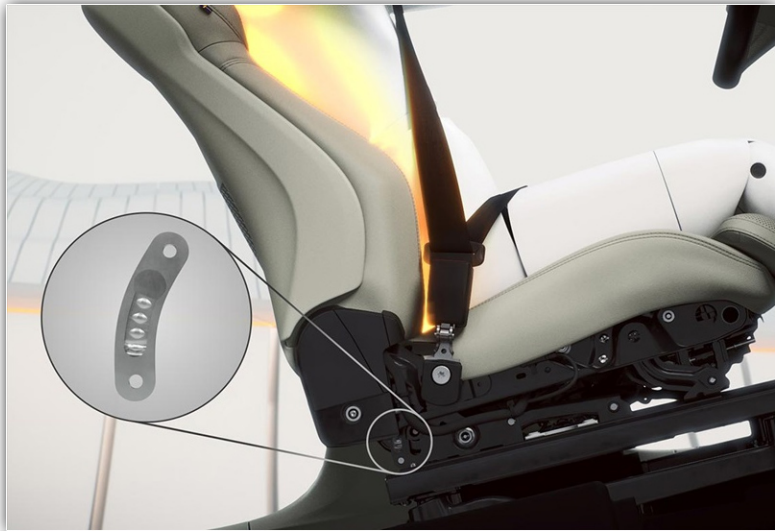
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# SOUND SUCCESS

In the process of creating the best sound system in the history of the company, Volvo Cars, together with our audio partners, has introduced a world first – a unique ‘outside air’ subwoofer. Normally, a subwoofer demands a compromise on space within a car’s cabin, but because the XC90’s wheelarch-mounted subwoofer uses air from outside the car, rather than in a separate box, no space is sacrificed. It also sounds better at low frequencies, where it matters.



# RUN-OFF ROAD PROTECTION

Running off road is a type of accident that's all too common, which is why the all-new XC90 incorporates several 'run-off road' technologies to help protect in these types of scenario. For example, Lane Keeping Aid is there to help you stay in lane. Should the worst happen, new world-first seat cushions combine with self-tightening safety belts, absorbing energy in an accident and significantly reducing the risk of spinal injuries, among other benefits.



# PAY FOR PARKING FROM YOUR CAR

Need to find a parking slot quickly? With the latest Sensus Connect, your Volvo can locate a nearby parking place – and then pay for it in advance. It's the world's first integrated 'Park and Pay' application – and just one more way in which your Volvo makes your life easier.



# TRADITION OF WORLD FIRST

VOLVO CARS HAS A RICH HERITAGE OF INNOVATION. HERE ARE JUST A FEW EXAMPLES OF THE WORLD FIRSTS INTRODUCED BY VOLVO THROUGHOUT OUR HISTORY.



***1944: Laminated windscreen***

The Volvo PV444 becomes the world's first car with a laminated windscreen.

***1959: Three-point safety belt***

Volvo is first in the world to fit this crucial safety feature, making it standard on Amazons and PV544s in Scandinavian markets.

***1964: Rear-facing child seat***

Our astronaut-inspired rear-facing child seat prototype in the PV544 would come to production in 1967.

**1976: Child booster cushion**  
Belt-positioning booster cushion for children.

***1976: Lambda Sond***

A three-way catalytic converter and Lambda sensors are fitted to Californian market Volvos, reducing hazardous emissions by up to 90 percent.

***1979: Wide-angle mirror***

The wide-angle driver's rear-view mirror gives a much better view of what's behind.

***1990: Integrated booster cushion***

Our fold-down/fold-out booster cushion makes its debut in the rear centre of the Volvo 960.

***1990: Centre rear inertia-reel seat belt***

An inertia-reel seat belt for the rear centre seat becomes standard.

***1991: SIPS***

The Volvo 850's integrated SIPS side-impact protection system minimises penetration into the passenger compartment in accidents.



**1991: Automatic seat belt adjustment**  
Automatic height adjustment for safety belts debuts in the Volvo 850.

**1998: Inflatable Curtain**  
A roof-mounted Inflatable Curtain airbag helps protect heads in the S80.

**1998: Environmental Product Declaration**  
Volvo S80 is the first car ever to receive an Environmental Product Declaration.

**1999: Rearward-facing seat for ISOFIX**  
The world's first solution for the standardised, car-integrated ISOFIX fitting system offers a safe and easy way to install a child car seat correctly.

**2001: Volvo On Call**  
Volvo On Call becomes the world's first fully-integrated and factory-fitted SOS system.

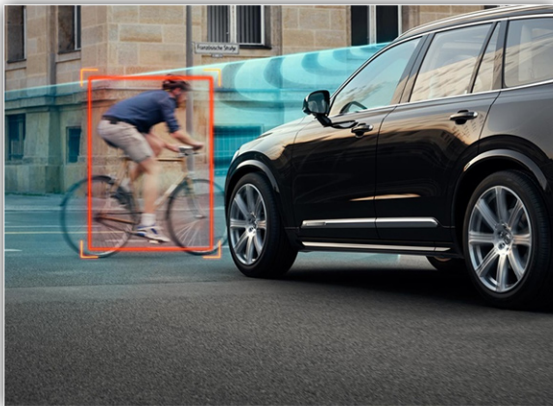
**2002: Boron steel**  
Super-strong Boron steel is first used, debuting in the XC90.

**2003: IDIS**  
Intelligent Driver Information System delays phone calls and non-critical information when necessary.

**2003: Volvo Ambient Air Cleaner**  
VAAC filters noxious fumes and neutralises other cars' exhaust emissions.

**2004: BLIS**  
Volvo's Blind Spot Information System monitors the driver's mirror blind spot.

**2004: Inflatable Curtain for convertibles**  
Overcoming the challenge of fitting Inflatable Curtains in convertibles is a world-first.



**2005: *Driver Alert***

Our innovative system to alert the driver before he or she falls asleep.

**2007: *Integrated two-stage booster cushion***

Our integrated booster cushion has belt pretensioners and two seat heights, making it adaptable for growing children.

**2011: *Plug-in Diesel Hybrid***

Volvo's V60 Plug-in Hybrid is the world's first diesel plug-in.

**2012: *Pedestrian Airbag***

Pedestrian Airbag Technology debuts on the Volvo V40.

**2013: *i-Art***

Drive-E diesels feature feedback from each fuel injector.

**2013: *Cyclist Detection with full auto brake***

Detects and automatically brakes for cyclists.

**2014: *Inflatable Child Seat***

Rearward-facing child seat concept can be tucked away in a small bag when not in use.

**2014: *Food to car***

Volvo demonstrates deliveries of food direct to the car.