

THE LS



 LEXUS

LS 600h



THE LS RANGE

“We decided the new LS must be a creative departure from the traditional norm. We were aiming for a vehicle that is remarkably advanced and intelligent, and yet which also has a strong appeal at a sensory and emotional level.”

HIDEKI WATANABE,
LS Chief Engineer

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THE LEXUS FLAGSHIP SEDAN

Fusing advanced technology with deep design artistry, the award-winning LS range redefines the luxury sedan. Epitomising Lexus, the latest generation LS sets new benchmarks for performance, safety, comfort and refinement.

Equipped with the world's most powerful 'Full Hybrid' drivetrain, the pioneering LS 600h delivers incredible power, seamless linear acceleration and low emissions. Permanent All-Wheel Drive provides an extremely rewarding and safe drive while, for added luxury, the LS 600h L long wheelbase version offers a unique experience for rear passengers.

Powered by an exceptionally smooth 4.6-litre V8 petrol engine, and fitted with the world's first 8-speed automatic transmission, the Rear-Wheel Drive LS 460 delivers sublime, refined power. And, for even greater traction in challenging driving conditions, the new LS 460 AWD features advanced permanent All-Wheel Drive technology.

Whichever LS model you choose, you will enjoy a vehicle which embodies sophisticated luxury, award-winning safety technology, incomparable comfort and inimitable Lexus style.

FORWARD THINKING

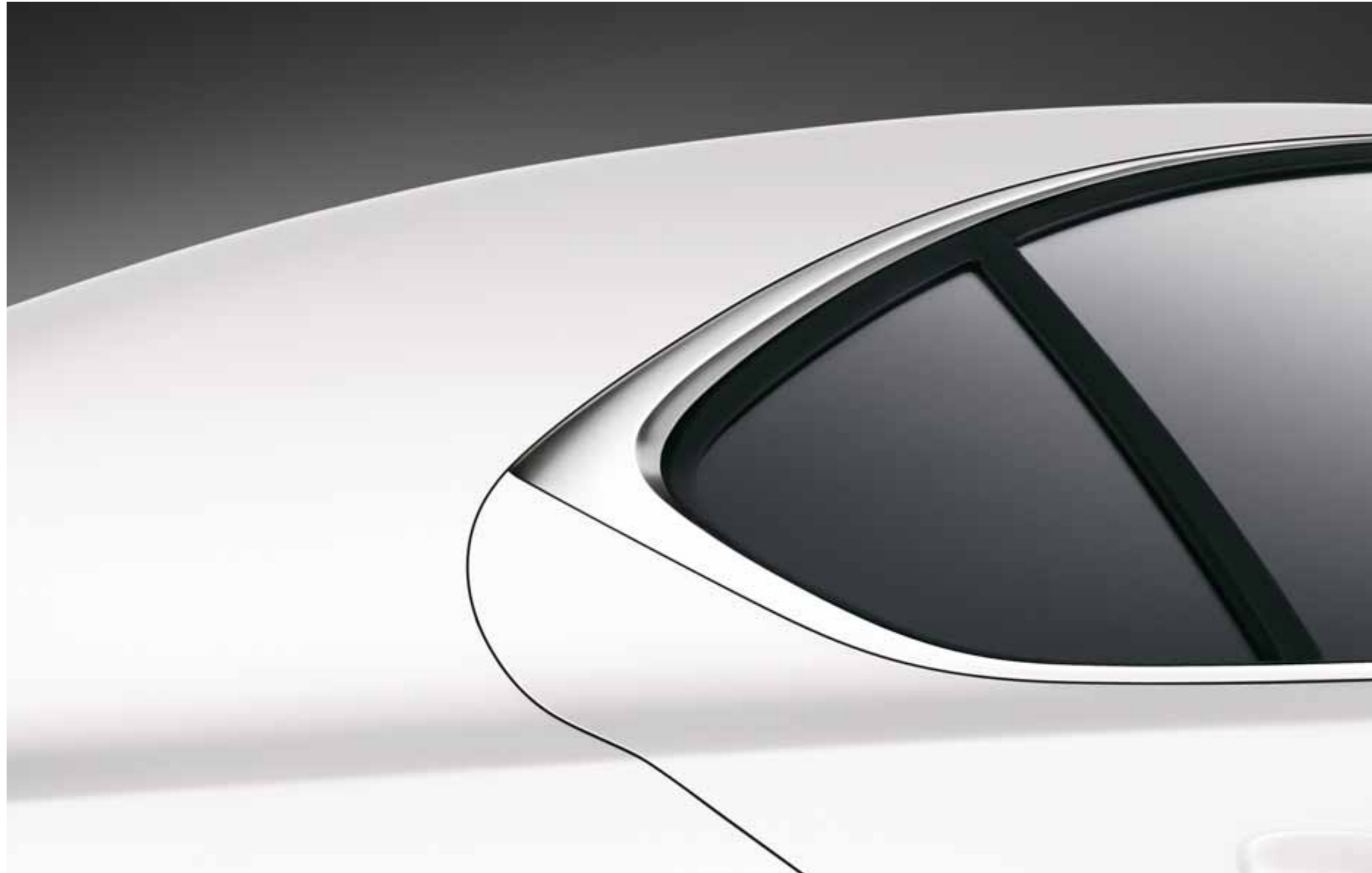
At Lexus our credo is constant innovation, which is why the LS range offers so many world firsts and technological breakthroughs.

For instance, LS 600h models incorporate the world's most powerful V8 hybrid drivetrain. This gives the power and refinement of a flagship 12-cylinder engine with the fuel economy of a 3.0-litre petrol V6. And for the LS 460 we developed the world's first 8-speed automatic transmission, to ensure the power is delivered with incredible finesse and smoothness.

Representing another breakthrough, the jewel-like lights on the new LS 600h are the world's first application of low-beam LED headlight technology. Not merely beautiful, they offer excellent illumination, use less energy and significantly improve durability. They light the full width of the road ahead, but without increasing glare to oncoming cars.

The LS range can also be ordered with an Advanced Pre-Crash Safety System that detects a wide range of obstacles, including pedestrians, in front of the car.





LEADING-EDGE FINESSE

Even at rest, the new LS exudes an unmistakable aura of dynamism, its graceful stance making full use of an impressive wheelbase and long cabin profile. To the front, the powerful bonnet is intriguingly contrasted with front wings of great finesse, alive with fluidity. And, by setting the front grille low and headlights high, Lexus designers have created a very resolute look - while closer inspection reveals an aerodynamic front moulding that's absolutely joint-free.

Viewed from the side, beautiful chrome window mouldings integrate characteristic arrowhead forms, a hallmark of Lexus. Finished with great precision, such details reflect the world-class quality of this flagship sedan. To the rear, the roof line flows gracefully towards the boot. While again the traditional Japanese arrowhead shape - a motif that recurs throughout the LS - here gives form to the car's rear lamp clusters, which have been created out of an array of jewel-like LEDs.

No detail has been overlooked: even the exhaust design is an original creation, seamlessly integrating the beautifully sculpted tailpipes within the car's bodywork.

LS 600h: THE WORLD'S MOST POWERFUL HYBRID

The most powerful hybrid sedan ever built, the LS 600h takes an important step forward by minimising environmental impact while maximising driving pleasure. This is made possible by Lexus Hybrid Drive, which intelligently combines an ultra-smooth 5.0-litre V8 petrol engine with a powerful electric motor and an advanced compact battery. Working together, engine and motor provide a huge combined output of 327 kW.

When accelerating firmly, the driver experiences astonishingly smooth linear power, with none of the jumps of a conventional transmission, achieving 0 - 100 km/h in just 6.3 seconds. And, although the LS 600h can match the torque, smoothness and acceleration of a V12 engine, the vehicle's innovative hybrid drivetrain delivers emissions of just 218 g/km of CO₂.

LS 600h Performance Data:

- System power: 327 kW
- Acceleration: 0-100 km/h in 6.3 seconds
- Max. speed: 250 km/h (electronically restricted)
- Combined fuel consumption: 9.3 l/100 km
- Combined CO₂ emissions: 218 g/km





LS 600h: FULL HYBRID TECHNOLOGY

Like all Lexus hybrids, the LS 600h features sophisticated 'Full Hybrid' technology, which delivers breathtakingly smooth power and extremely low emissions. At lower speeds, Lexus Hybrid Drive will allow Electric Vehicle (EV) driving mode to be selected, where the conventional petrol engine is switched off for short distances. This capability cannot be achieved in 'Mild Hybrid' cars. In EV mode, using a powerful electric motor and advanced Hybrid Transmission, the car produces zero CO₂, NO_x or particulate emissions.

Underscoring its astonishing performance, the LS 600h has won numerous international awards, with experts specifically praising its drivetrain for providing the power and refinement of a large powerful engine with the fuel consumption of a much smaller unit.



LS 600h: LEXUS HYBRID DRIVE

For class-leading performance and low emissions the LS 600h intelligently combines a new 5.0-litre V8 petrol engine with a high-output electric motor, advanced compact battery, seamless hybrid transmission and breakthrough Power Control Unit.

5.0-LITRE V8 PETROL ENGINE

The 5.0-litre V8 engine is the finest expression to date of Lexus' engineering skills. The painstaking development of high rigidity components, the optimum balance of all moving parts, the minimisation of friction and unprecedented precision of assembly have all contributed to remarkable refinement and quietness. This highly responsive all-aluminium engine also benefits from two technologies - VVT-iE and D-4S - to deliver optimum engine efficiency throughout the power band.

POWER CONTROL UNIT

The Power Control Unit (PCU) is the brain of Lexus Hybrid Drive. No larger than a normal car battery, it seamlessly controls the allocation of the car's power resources to ensure optimum efficiency at all times. The PCU makes sure you get massive power when you need it. At other times, it is efficiently storing electricity for later use.

HIGH-PERFORMANCE ELECTRIC MOTOR

The compact design and low weight of this water-cooled synchronous motor have, together with advances in its electro-mechanical operation, resulted in very smooth and quiet operation. Running on a 650 V current, the motor delivers 165 kW of power and an astonishing 300 Nm of instantaneous torque.

ADVANCED COMPACT BATTERY

This is where the electric power generated by Lexus Hybrid Drive is stored until it's required. Installed behind the rear seat, the nickel-metal hydride (Ni-MH) advanced compact battery provides high power output in relation to its light weight. Built for longevity, it does not require recharging from an outside power source, nor does it require periodical replacement.

HYBRID TRANSMISSION

The Lexus Hybrid Drive's electric motor, generator, power split planetary gear mechanism and motor-speed reduction gearing are all housed in one lightweight, highly compact transmission casing, no bigger than a normal automatic gearbox.



LS 600h: HYBRID INTELLIGENCE

The LS 600h is a fascinating car to drive, with its energy management overseen by an advanced Power Control Unit (PCU) that constantly optimises power distribution according to your needs - and those of the environment.

When there's a requirement to accelerate hard, the PCU puts the combined resources of the V8 petrol engine and the electric motor at your disposal. At other times - for example, when cruising or braking - the kinetic energy that is wasted by conventional cars is used to charge the advanced hybrid battery. On the latest LS 600h this battery is even more compact and the shape has been optimised, to give considerably more boot space.

In urban traffic, the V8 engine will often switch off silently and power will come solely from the car's powerful electric motor. In addition to Electric Vehicle mode, as another environmental measure, all LS models can be switched to ECO mode. This re-tunes the throttle control and air conditioning to save fuel and reduce harmful emissions.





LS 460/LS 460 AWD: SUPERIOR V8 PERFORMANCE

The sophistication and refined power of the LS 460 is largely due to the most advanced V8 petrol engine ever designed by Lexus, linked to the world's first 8-speed automatic transmission.

This benchmark engine features innovative D-4S direct injection technology and VVT-iE, an electric variable-intake valve timing system that delivers exceptional torque and fuel economy over a wide range of engine speeds.

For superb traction and surefootedness, the LS 460 AWD has advanced permanent All-Wheel Drive. In normal conditions the system distributes drive power 40/60 between the front and rear wheels, giving the rear-wheel drive characteristics befitting a dynamic luxury sedan. But, should conditions require, the system can instantly change power allocation to deliver traction where it's needed most.

	LS 460	LS 460 AWD
Acceleration 0-100 km/h:	5.7 seconds	6.3 seconds
Max. speed:	250 km/h (electronically limited)	250 km/h (electronically limited)
Combined fuel consumption:	11.1 l/100 km	11.6 l/100 km
Combined CO ₂ emissions:	261 g/km	274 g/km

V8 PRECISION ENGINEERING

The V8 petrol engine powering the LS is a masterpiece of mechanical engineering. To ensure longevity, after casting the aluminium engine blocks, blocks are scanned for air bubbles using computer tomography. Every crankshaft is tested for rotational uniformity and polished by hand to improve running smoothness. A Lexus 'Takumi' craftsman then uses a stethoscope to check each drivetrain and, finally, every car undergoes an intensive test drive to check for a perfect engine note.

The LS 460 and LS 460 AWD both incorporate our breakthrough 8-speed automatic transmission, the most advanced ever developed by Lexus. Increasing the number of gears has allowed us to achieve the best of both worlds - fast acceleration and good fuel economy - in a unit that operates with great efficiency and sophistication. This has been made possible by the transmission's ability to perform multiple gearshifts - rather than changes of merely one ratio at a time.





PEACE AND TRANQUILLITY

The LS offers an extraordinarily quiet driving experience. To reduce wind noise the car has excellent aerodynamics, with a class-leading drag coefficient. This is the result of many months of computer-modelling, thousands of hours of real life wind tunnel testing - and the most extreme attention to detail.

The smooth, flowing bodywork of the LS offers little air resistance, thanks to the finest tolerances between panels, minimal protrusions and an underbody designed to achieve the flattest possible surface. So, even at very high speeds, the car generates insignificant wind noise.

To lessen vibration, and hence noise, the chassis and body of the LS are precision-built from a combination of high tensile steel and aluminium components. Great effort has also been made to prevent sound entering the car. Insulating measures include high-specification laminated glass, special external bodywork seals and window frame mouldings to minimise sound ingress. And, to reduce road noise, the LS is fitted with rubberised underbody floor covers and sound absorbing rear wheel arch liners.

DRIVING DYNAMICS

Behind the wheel, LS drivers experience a profound sense of connectedness to a car that is beautifully balanced and exceedingly agile. Lightweight aluminium multi-link suspension, both front and rear, combines with high performance pneumatic shock absorbers to provide exceptional stability, handling and ride comfort.

Adaptive Variable Suspension enables the driver to fine-tune handling characteristics using different damper settings, and the car even lowers itself for improved aerodynamics at higher speeds. The LS is also equipped with speed-sensitive Variable Gear Ratio Steering that adjusts according to your speed, and in an emergency may react to help you steer away from danger or out of a skid.

State-of-the-art Vehicle Dynamics Integrated Management is fitted as standard to the LS. This enables all of the car's stability and control systems to work together, ensuring a level of intervention that's much more refined than if these systems acted independently of one another. For increased stopping performance the latest LS 600h and LS 600h L models are now also fitted with powerful Brembo® brakes, while the LS 600h can be ordered with active stabiliser technology for optimum high-speed performance.





LEGENDARY QUALITY

With the launch of the first LS luxury sedan in 1989, Lexus revolutionised the quality standards for premium cars. Built at our award-winning Tahara plant in Japan, the latest LS again provides a showcase for the talents of some of the world's finest craftspeople.

Inside the LS you'll experience exquisitely hand-finished leathers and beautifully grained wood - quality that is affirmed by every sense. For example, the leather covered four-spoke steering wheel is stitched by machine for precision, yet finished and checked by a 'Takumi' master craftsman.

Storage compartments glide silently open with a perfection of movement inspired by traditional Japanese sliding doors. While wood inlays, carefully sanded and varnished by hand, have a deeply polished sheen.

Outside, every LS has flawless paintwork with a self-restoring coat - the result of a special partnership between the world's most advanced paint spraying robots and experienced Japanese hands. Unique for a car of this kind, the vertical bodywork surfaces are wet sanded after each of the foundation coat applications, and checked by eye as well as digitally to ensure the highest quality.





SEAMLESS ANTICIPATION

At Lexus we believe in using the world's most advanced technology to enhance comfort and deliver a feeling of Japanese hospitality that is timeless. We call this 'seamless anticipation'. Nothing illustrates this better than the way the LS welcomes you.

Slip the electronic key into your pocket or bag and, as you come closer, the car will instantly recognise the key's unique identification code. Then just touch any door handle and it will unlock. The car's lights also provide a courteous welcome. Lamps under the door mirrors help you to avoid stepping into puddles. Then, through a carefully choreographed lighting sequence, the LS guides the driver and passengers into the car, anticipating their needs every step of the way.

For greater comfort and convenience, all doors on the LS have an auto-closing mechanism. This uses ultra-quiet electric motors to gently pull the doors closed. Gaining access to the car's boot is easy: to keep your hands clean, you can open and close the boot lid by pressing a dashboard switch, a button on the licence plate trim or a button on the electronic key.

"One of the key concepts of this car is what we call 'human-centred engineering'. This is about perfect hospitality and ensuring the needs of our customers are seamlessly anticipated. We want you to feel welcomed and effortlessly at home in the new LS."

HIDEKI WATANABE,
LS Chief Engineer

SOPHISTICATED COMFORT

In the LS, everything you touch communicates an unambiguous message of quality - from the leather covered four-spoke steering wheel to the exquisite front console. Both are machine-stitched for precision, yet finished by a Lexus master craftsman.

Both front seats feature comprehensive electronic adjustments (no less than 10 for the driver's seat) and pre-set memory functions. Adjustments include the ability to flex the centre of the seatback and four-way lumbar support (two-way for passenger). Also, both front seats feature a built-in air conditioning system as standard. Fans installed in the seat back and cushion provide cold or warm air as required. Should you wish, every seat in the LS can be fitted with its own individual climatic control system.

The cockpit is a quiet world of comfort and sophistication. Exquisitely hand-finished leathers, beautifully grained wood, lustrous varnishes and flawless paintwork - this is quality that is affirmed by every sense. Taking luxury one step further, LS 600h models can be specified with a full-leather dashboard and upper door panels, while comfortable new 'butterfly' rear headrests and a lumbar massage function on the outer rear seats are available with the rear seat upgrade package for the LS 460, LS 460 AWD and LS 600h (specified as standard on the LS 600h L).





LS 600h L: FIRST CLASS LUXURY

The LS 600h L, our long wheelbase model, provides superior legroom and multi-adjustable rear seats that are generously proportioned and individually air conditioned. Rear side airbags are provided for added protection. In addition, comfortable new 'butterfly' rear headrests and a lumbar massage function on the outer rear seats are both standard on the latest LS 600h L.

For the highest levels of comfort and luxury, the LS 600h L can now be specified with the rear seat relaxation package on both four and five-seat versions. This includes a special relaxation seat that reclines by up to 45 degrees, with extending thigh and footrest. The seat back incorporates eight moving air pockets that perform 'Shiatsu' shoulder and lower back acupressure massages - all activated by remote control.

Specified with Mark Levinson® Reference Surround, the LS 600h L is fitted as standard with a rear seat home theatre system. This is viewed via a 9" full colour LCD widescreen, where audio is played via headphones or the car's loudspeakers.



INNOVATIVE NAVIGATION AND PARKING

The LS range is specified as standard with an advanced navigation system, which is accessed through the car's central Electro Multi-Vision (EMV) display. Thanks to a 40 GB Hard Disk Drive, it is one of the fastest, most user-friendly systems available today and features large and small scale displays.

The system, which can be instructed to navigate by various criteria, will even calculate your arrival time, offer a variety of routes, or guide you to the nearest petrol station or selected points of interest. In countries with Dynamic Route Guidance (DRG)*, the navigation unit is constantly updated on traffic delays and can suggest alternative routes.

For trouble-free reversing, the LS features a Parking Assist Monitor with a rearward facing video camera that relays images of the view behind the car to the EMV display. Equipped with guidance graphics, it is especially useful when reversing into a tight parking space. For the ultimate in parking comfort, the LS is also available with a revolutionary technology called Intelligent Parking Assist that allows the car to virtually park itself. The system uses a camera and ultrasonic sensors to identify viable parking spaces, and then guides the LS into the space. No steering input is required from the driver, who merely controls vehicle speed while parking.

* DRG is available in countries using the RDS radio system. The Traffic Messaging Channel will then enable the use of DRG.





MARK LEVINSON® REFERENCE SURROUND SYSTEM

The perfect environment in which to enjoy music, videos, or other digital media, the LS 460 models have a 10-speaker stereo system as standard, but can also be ordered with a peerless 19-speaker Mark Levinson® Reference Surround system. Among the world's finest in-car entertainment systems, this comes as standard on the LS 600h models. With it, passengers enjoy perfect 5.1-channel surround sound for their favourite CDs and DVDs. Also, all models have Bluetooth® mobile phone connectivity, an auxiliary input and USB port for use with iPods® or other media players.

True to its forward-thinking concept, the LS is also DAB (Digital Audio Broadcasting) 'ready'. Additionally, the car's Hard Disk Drive can also function as a sound library. This lets you save CDs onto the car's hard disk and manage them with state-of-the-art Gracenote® software that catalogues data such as artist's name, album name and track name.

In conjunction with the central 8" touch-screen display, the Mark Levinson® Reference Surround system delivers a complete, discrete home theatre entertainment experience for the playback of music, music videos and DVD films.

FOUR-ZONE CLIMATE CONTROL

In developing the LS, our designers studied traditional Japanese gardens in order to emulate the sensations of peace and tranquility they engender. For instance, in the pursuit of perfection, the underside of the LS was designed with the smoothest and flattest possible surface so that even at high speeds very little wind noise emanates from under the car to disturb you in the cabin. You will find also, for example, that air is distributed quietly and evenly throughout the car without unwelcome drafts - made possible by no fewer than twenty individual air outlets.

From the front seats the cabin temperature to the left and right of the cabin can be regulated individually. Should you choose to specify four-zone control, each rear seat passenger can also control the temperature within their personal climate zone.

Rear seat passengers also benefit from the world's first roof climate diffusers. Mounted above each outer rear seat, these gently diffuse fresh cooling air to enhance comfort and well-being. This system also includes a sensor to monitor outside air quality. If harmful pollutants are detected, ventilation automatically switches to re-circulation mode.





WORLD-CLASS SAFETY

The LS is an incredibly relaxing car to drive, so you can concentrate fully on the road ahead. Ergonomic excellence is evidenced by features like Optitron instrumentation that is kind to your eyes, and voice control that lets you keep both hands on the wheel.

When driving the LS 600h at night, revolutionary LED headlamps significantly improve visibility with no increase in glare to oncoming traffic. And, to help you see round corners, every LS model comes with an Intelligent-Adaptive Front-lighting System.

For a safe and rewarding drive, the LS features Vehicle Dynamics Integrated Management (VDIM). By integrating the car's Electronic Brake force Distribution, Brake Assist, Traction Control and Vehicle Stability Control systems, VDIM delivers a level of intervention that's much smoother and more proactive than if each application had to work independently. On a slippery road, for example, if the car senses different grip levels between the left and right wheels, VDIM applies Variable Gear Ratio Steering and adjusts the suspension using Adaptive Variable Suspension to equalise the situation and enhance stability.



INTELLIGENT DRIVER SUPPORT

Now available on all LS models as part of the Advanced Pre-Crash package, Lane Keeping Assist is an intelligent system that helps ensure you do not inadvertently leave your lane. A stereo imaging camera monitors white line road markings to determine whether the vehicle is drifting. Should this happen, the system provides an audible warning as well as steering support to help the driver regain the correct road position.

The Advanced Pre-Crash Safety System on the LS also features the world's first Driver Monitoring System. When driving, a camera mounted on top of the steering column monitors the position of your head. If you turn your head away from the road for too long, and an obstacle is detected in front of the car, the system automatically warns you. If the situation persists, the system briefly applies the brakes to alert you to the danger.





ADVANCED PRE-CRASH TECHNOLOGY

The LS can be ordered with our latest Pre-Crash Safety System with Adaptive Cruise Control or, even more remarkable, our award-winning Advanced Pre-Crash Safety (Advanced PCS) package.

Advanced PCS uses millimetre-wave radar to recognise objects with sharply defined edges in front of the vehicle, while a stereo camera and infra-red projectors detect objects with minimal radar reflection – such as humans.

If a collision looks highly probable, the system first activates a warning buzzer and a 'BRAKE' warning on the Multi-Information Display. Should the driver take no action, Pre-Crash Brake Assist provides maximum brake pressure and Emergency Steering Assist adapts to the emergency situation. If the collision is still unavoidable, Advanced PCS automatically activates Pre-Crash Seatbelts and the Pre-Crash Brake to reduce vehicle speed.

Advanced PCS also features a Rear Pre-Crash Safety System that employs millimetre-wave radar to monitor vehicles approaching dangerously fast from behind. If a rear collision seems likely, the front seat Pre-Crash Intelligent Headrests will move forwards and upwards, reducing the risk of whiplash injury.

360° PROTECTION

The LS range is engineered for the highest safety performance, surpassing all worldwide crash safety requirements.

To protect occupants in a collision, the LS is equipped with eight strategically placed airbags (up to eleven in the LS 600h L). Front seats incorporate a Whiplash Injury Lessening design and Active Headrests to help minimise neck whiplash. An advanced sensor system deploys variable-force front airbags according to the severity of impact.

The LS also has a special twin-chamber front passenger airbag. Once inflated, a depression is formed in the centre of the airbag to cradle delicate areas such as the nose and mouth, while allowing the impact to be dispersed across the head and shoulders.

The optional rear seat relaxation package comes with a revolutionary seat cushion airbag which has been specially designed for the rear relaxation seat. Unique to this class of car, it activates during frontal impact and, by inflating the front of the seat base, it helps to prevent the occupant sliding forward.

After the activation of any airbag, all four windows open slightly to allow pyrotechnic gases to escape.





SELECT

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LS 460 / LS 460 AWD

TECHNICAL DATA

ENGINE	LS 460	LS 460 AWD
Capacity (cm ³)	4608	4608
Cylinders/valves	V8/32	V8/32
Valve mechanism	Dual VVT-i (VVT-iE at intake)	Dual VVT-i (VVT-iE at intake)
Fuel type	Petrol, 95 octane or +	Petrol, 95 octane or +
Max. power (kW @ rpm)	280 @ 6400	270 @ 6400
Max. torque (Nm @ rpm)	493 @ 4100	469 @ 4100

TRANSMISSION	LS 460	LS 460 AWD
Driven wheels	Rear-wheel drive	Permanent All-Wheel Drive
Transmission	8-speed automatic with sequential shift mode	8-speed automatic with sequential shift mode

PERFORMANCE	LS 460	LS 460 AWD
Max. speed (km/h)	250	250
0-100 km/h (s)	5.7	6.3

FUEL CONSUMPTION* (l/100 km)	LS 460	LS 460 AWD
Urban	16.5	17.2
Extra urban	7.9	8.4
Combined	11.1	11.6

CO ₂ EMISSIONS* (g/km)	LS 460	LS 460 AWD
Emissions level	Euro V	Euro V
Urban	388	405
Extra urban	187	198
Combined	261	274

BRAKES	LS 460	LS 460 AWD
Front (dimensions, mm)	Four-piston callipers, spiral-fin ventilated discs (Ø 357 x 34)	Four-piston callipers, spiral-fin ventilated discs (Ø 357 x 34)
Rear (dimensions, mm)	Two-piston callipers, spiral-fin ventilated discs (Ø 335 x 22)	Two-piston callipers, spiral-fin ventilated discs (Ø 335 x 22)

SUSPENSION	LS 460	LS 460 AWD
Front	Multi-link	Multi-link
Rear	Multi-link	Multi-link

STEERING	LS 460	LS 460 AWD
Type	Rack and pinion	Rack and pinion
Turns (lock to lock)	2.5 - 3.6	2.5 - 3.6
Minimum turning radius (m)	5.4 (5.5 with 19" wheels)	5.4

WEIGHTS (kg)	LS 460	LS 460 AWD
Gross vehicle weight	2495	2640
Kerb weight (min.-max.)	1945 - 2055	2085 - 2200

DRAG COEFFICIENT	LS 460	LS 460 AWD
Cd value	0.26	0.27

CAPACITIES (l)	LS 460	LS 460 AWD
Fuel tank	84	84
Luggage compartment	560 ¹	560 ¹

* The fuel consumption and CO₂ values are measured in a controlled environment, in accordance with the requirements of Directive 80/1268/EEC incl. its amendments, on a vehicle with European Standard equipment. For further information, or if you are interested in purchasing a vehicle with European Standard equipment, please contact your Lexus Authorised Importer.

The fuel consumption and CO₂ values of your vehicle may vary from those measured. Driving behaviour as well as other factors (such as road conditions, traffic, vehicle condition, tyre pressure, installed equipment, load, number of passengers, etc.) play a role in determining a car's fuel consumption and CO₂ emissions.

¹ Figure quoted is for LS 460 and LS 460 AWD with tyre repair kit (not available in all countries. Please consult your local Lexus Authorised Retailer regarding availability in your country). With a full size spare wheel, the luggage compartment volume is 510 l. With tyre repair kit and optional rear seat upgrade package, luggage compartment volume is 500 l. With both full size spare wheel and optional rear seat upgrade package, volume is 450 l.



¹ 1610 mm for LS 460 specified with optional 19" alloy wheels

² 1615 mm for LS 460 specified with optional 19" alloy wheels and for LS 460 AWD

LS 600h / LS 600h L

TECHNICAL DATA

ENGINE

Capacity (cm ³)	4969
Cylinders/valves	V8/32
Valve mechanism	Dual VVT-i (VVT-iE at intake)
Fuel type	Petrol, 95 octane or +
Max. power (kW @ rpm)	290 @ 6400
Max. torque (Nm @ rpm)	520 @ 4000

TRANSMISSION

Driven wheels	Permanent All-Wheel Drive
Transmission	Hybrid drive transmission, incorporating Electronic-Continuously Variable Transmission (E-CVT) with sequential shift mode and 2-stage motor speed reduction device

HYBRID DRIVE

Maximum output (kW)	327
Electric motor	
- Type	AC synchronous, permanent magnet
- Maximum output (kW)	165
- Maximum torque (Nm)	300
Electric generator	
- Type	AC synchronous, permanent magnet
- Voltage (V)	650
High voltage battery	
- Type	Nickel-Metal Hydride (Ni-MH)
- Voltage (V)	288

PERFORMANCE

Max. speed (km/h)	250
0-100 km/h (s)	6.3

FUEL CONSUMPTION* (l/100 km)

Urban	11.2 (LS 600h L = 11.3)
Extra urban	8.0
Combined	9.3

CO₂ EMISSIONS* (g/km)

Emissions level	Euro V
Urban	263 (LS 600h L = 265)
Extra urban	187 (LS 600h L = 188)
Combined	218 (LS 600h L = 219)

BRAKES

Front (dimensions, mm)	Four-piston callipers, spiral-fin ventilated discs, Brembo® design (Ø 380 x 36)
Rear (dimensions, mm)	Two-piston callipers, spiral-fin ventilated discs (Ø 335 x 22)

SUSPENSION

Front	Multi-link
Rear	Multi-link

STEERING

Type	Rack and pinion
Turns (lock to lock)	2.3 - 3.7
Minimum turning radius (m)	5.7 (LS 600h L = 5.9)

WEIGHTS (kg)

Gross vehicle weight	2795 (LS 600h L = 2825) ¹
Kerb weight (min.-max.)	2290 - 2420 (LS 600h L = 2400 - 2450) ²

DRAG COEFFICIENT

Cd value	0.27
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CAPACITIES (l)

Fuel tank	84
Luggage compartment	420 ³

* The fuel consumption and CO₂ values are measured in a controlled environment, in accordance with the requirements of Directive 80/1268/EEC incl. its amendments, on a vehicle with European Standard equipment. For further information, or if you are interested in purchasing a vehicle with European Standard equipment, please contact your Lexus Authorised Importer.

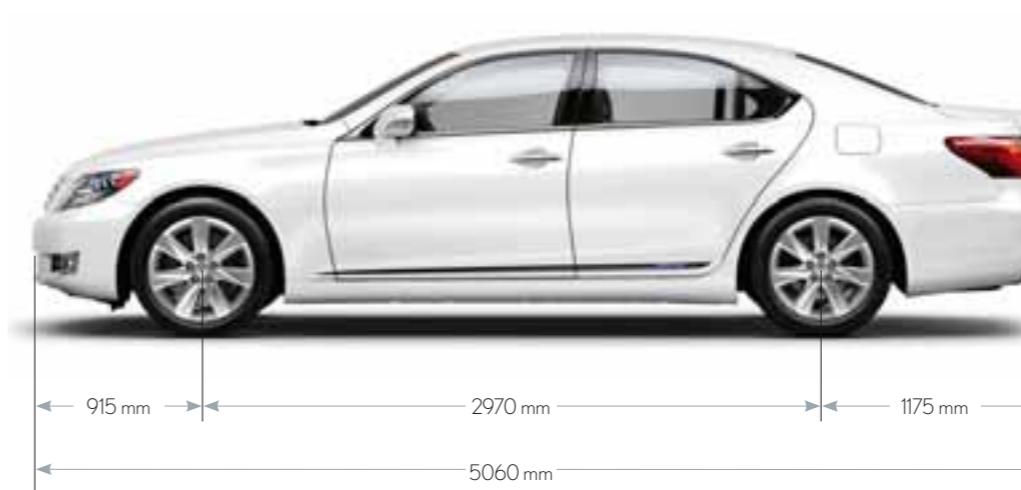
The fuel consumption and CO₂ values of your vehicle may vary from those measured. Driving behaviour as well as other factors (such as road conditions, traffic, vehicle condition, tyre pressure, installed equipment, load, number of passengers, etc.) play a role in determining a car's fuel consumption and CO₂ emissions.

¹ If the optional rear seat relaxation package is specified, the gross vehicle weight for the LS 600h L = 2760 kg

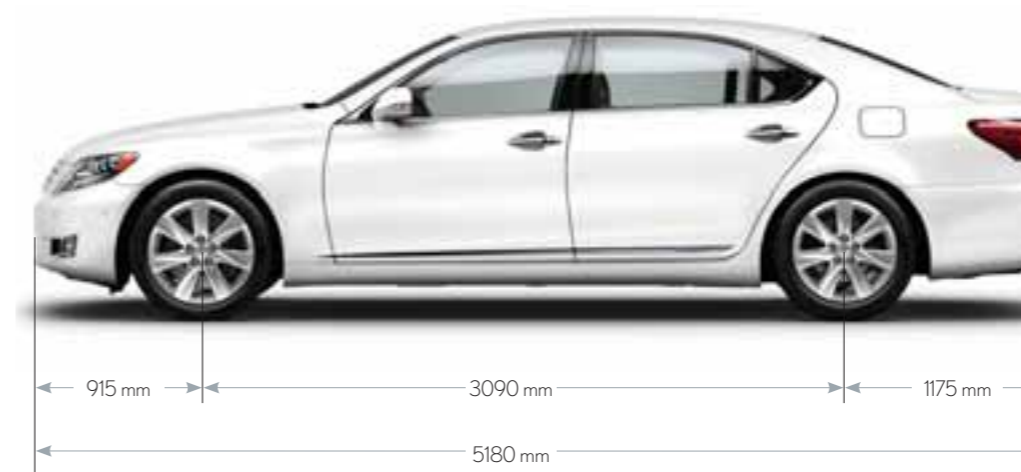
² If the optional rear seat relaxation package is specified, the kerb weight (min.-max.) for the LS 600h L = 2410 - 2460 kg

³ Figure quoted is for LS 600h and LS 600h L with tyre repair kit. With full size spare wheel, the luggage compartment volume is 370 l.

LS 600h



LS 600h L



LS RANGE STANDARD EQUIPMENT

ACTIVE SAFETY & DRIVING DYNAMICS

Anti-lock Braking System (ABS)
Air suspension
Adaptive Variable Suspension (AVS) with normal/comfort/sport modes
Brake Assist System (BAS)
Brake hold
Electronic Brake force Distribution (EBD)
Emergency Brake Signal (EBS)*
Electronically Controlled Braking (ECB)
Electronic Parking Brake (EPB)
Electric Power Steering (EPS), speed-sensitive
Hill start Assist Control (HAC)
Traction Control System (TRC)
Tyre Pressure Warning System (TPWS)
Variable Gear Ratio Steering (VGRS)
Vehicle Dynamics Integrated Management (VDIM)
Vehicle Stability Control (VSC)

PASSIVE SAFETY

2-stage airbag, driver
2-stage twin-chamber airbag, front passenger
Airbag cut-off switch, front passenger
Audible and visual front seatbelts reminder
Full-length curtain shield side airbags, left and right
ISOFIX attachment, outer rear seats
Knee airbags, driver and front passenger
Seatbelt pre-tensioners, front and rear outer seats
Thorax Abdomen Pelvis (TAP) side airbags, driver and front passenger
Whiplash Injury Lessening (WIL) front seats with active headrests

SECURITY

Anti-theft system
- immobiliser
- intrusion sensor
- inclination sensor
- siren
Auto door locking
Double door lock

EXTERIOR

Door mirrors
- electrically adjustable, folding and heated
- electro chromatic (auto-dimming)
- integral turn signal indicators
Easy door and boot closer (soft shut)
Front foglights
Intelligent-Adaptive Front-lighting System (I-AFS)
Laminated glass, windscreen and side windows
Light Emitting Diode (LED) tail and brake lights and licence plate illumination
Paintwork with 'Self-restoring coat'
Rain sensing wipers
Ultra Violet (UV) and heat insulating tinted glass
Water-repellent glass, front door windows

AUDIO, COMMUNICATION & INFORMATION

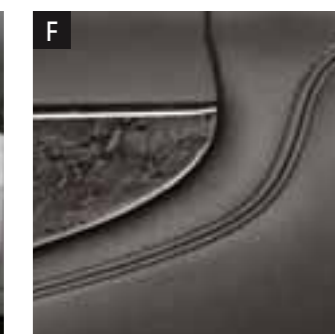
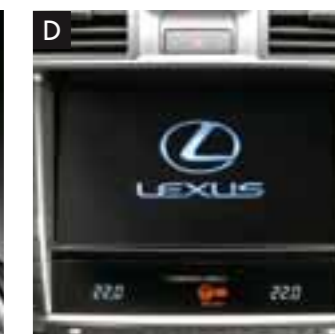
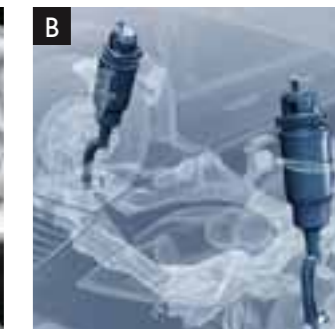
8" touch-screen Electro Multi-Vision (EMV) display
Bluetooth® mobile phone connectivity
Colour multi-information display in centre instrument cluster
Eco driving indicator
Hard Disk Drive (HDD) Navigation system with Dynamic Route Guidance (DRG)
MP3/WMA compatibility
Optitron instrumentation
Parking assist monitor
Parking assist sensors, front and rear
Steering wheel mounted controls
- audio system
- brake hold
- multi-information display
- phone
- voice command
USB port and AUX socket for audio connectivity

* EU member states only

INTERIOR COMFORT AND CONVENIENCE

Cruise control
Easy exit and entry facility (retracting steering wheel)
Eco mode
Electronic climate control air conditioning system
- automatic recirculation mode
- clean air filter with pollen removal mode
- separate driver/passenger temperature controls
Front seats, electrically adjustable with memory (3 pre-sets)
- 10-way adjustment, driver
- 8-way adjustment, passenger
- air conditioned (heated and ventilated), driver and passenger
Front headrests, electrically adjustable
Front seatbelt position, electrically height adjustable with memory for driver
Heated rear seats
Illuminated entry system with puddle lamps
Illuminated front and rear vanity mirrors
Leather trimmed steering wheel
Leather upholstery
Light Emitting Diode (LED) interior lighting
Lumbar support for front seats, electrically adjustable
- 4-way adjustment, driver
- 2-way adjustment, passenger
Memory for front seats, steering wheel and door mirrors
One-touch electrically operated windows, front and rear
Rear centre armrest
Rear sunshade, electrically operated with auto-lift and lower
Rear-view mirror, electro chromatic (auto-dimming)
Smart entry and start system with push start button
Steering wheel, electrically multi-adjustable
Wood inlays, doors, instrument panel and lower centre console

A. Passive safety
B. Adaptive variable suspension
C. Illuminated entry system
D. 8" EMV touch-screen
E. Electronic climate control
F. Interior luxury



LS 460 / LS 460 AWD / LS 600h / LS 600h L

EQUIPMENT BY MODEL

STANDARD EQUIPMENT FOR LS 460

- 18" alloy wheels, 10-spoke design
- 235/50 R18 tyres
- tyre repair kit / full-size alloy spare*
- 10-speaker Premium audio system
- FM/AM RDS tuner
- in-dash, single-slot 6-CD autochanger
- High Intensity Discharge (HID) bi-xenon headlights
- auto-levelling with pop-up cleaners
- Light Emitting Diode (LED) clearance lights

STANDARD EQUIPMENT FOR LS 460 AWD (IN ADDITION TO LS 460)

- Leather and wood trimmed steering wheel, heated
- Permanent All-Wheel Drive (AWD)

STANDARD EQUIPMENT FOR LS 600h (IN ADDITION TO LS 460 AWD)

- 19" alloy wheels, 7-spoke design
- 245/45 R19 tyres
- Brembo® brakes
- 19-speaker Mark Levinson® Reference Surround system
- FM/AM RDS tuner
- in-dash, single-slot 6-CD/DVD autochanger
- Hard Disk Drive (HDD) sound library with Gracenote® database
- Card key
- Electric boot closer
- Lexus Hybrid Drive
- Electric Vehicle (EV) mode
- Energy monitor
- Power meter
- Light Emitting Diode (LED) low-beam headlight
- Automatic High-beam System
- Wood inlays, additionally for gearshift lever and grab handles

STANDARD EQUIPMENT FOR LS 600h L (IN ADDITION TO LS 600h)

- Electric sunroof
- Four-zone air conditioning
- rear climate system upgrade
- separate temperature controls, left and right
- roof-lining mounted climate diffusers
- sunshades, electrically operated for rear door windows
- Multi-function rear centre armrest
- controls for climate, audio, seats and sunshade operation
- Rear seat entertainment with drop-down 9" colour monitor
- Rear seats (left and right)
- air conditioned and electrically adjustable with memory
- lumbar massage, electrically operated
- butterfly headrests
- Rear side airbags

* Please consult your local Lexus Authorised Retailer for information regarding standard specification in your country.

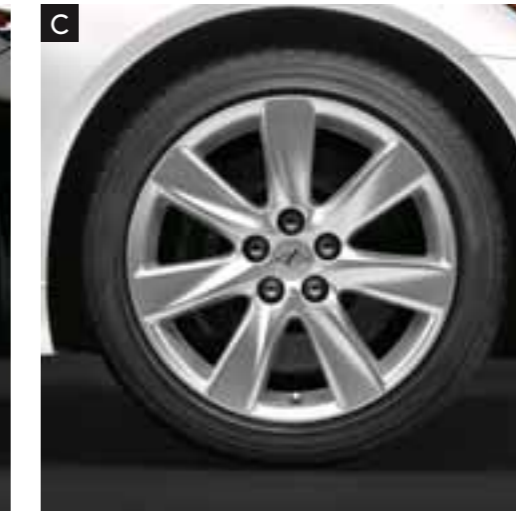
LS 460 / LS 460 AWD

- A. 18" alloy wheel, 10-spoke design
- B. HID bi-xenon headlight



LS 600h / LS 600h L

- C. 19" alloy wheel, 7-spoke design
- D. LED low-beam headlight



LS 600h / LS 600h L

- E. Energy monitor
- F. Hybrid instrumentation



LS RANGE OPTIONS AND PACKAGES

SINGLE OPTIONS	LS 460	LS 460 AWD	LS 600h	LS 600h L
19" alloy wheels, 5-spoke design with 245/45 R19 tyres ^A	o	-	-	-
19-speaker Mark Levinson® Reference Surround system with in-dash, single-slot 6-CD/DVD autochanger ^B	o	o	s	s
Active stabilisers ^C	-	-	o	-
Automatic High-beam System	o	o	s	s
Card key ^D	o	o	s	s
DAB (Digital Audio Broadcasting) radio upgrade module	a/o	a/o	a/o	a/o
Electric boot closer ^E	o	o	s	s
Electric sunroof ^F	o	o	o	s
Intelligent parking assist ^G	o	o	o	o
Leather and wood trimmed steering wheel ^H	o	-	-	-
Leather and wood trimmed steering wheel, heated	o	s	s	s
Pre-Crash Safety System (PCS) with Adaptive Cruise Control (ACC) ^I	o	o	o	o

PACKAGES	LS 460	LS 460 AWD	LS 600h	LS 600h L
Advanced Pre-Crash Safety and Driver Assistance	o	o	o	o
Interior upgrade	o	o	o	o
Rear Seat Entertainment	o	o	o	s
Rear Seat Upgrade	o	o	o	s
Rear Seat Relaxation (4-seat capacity)	-	-	-	o
Rear Seat Relaxation (5-seat capacity)	-	-	-	o

- = not available

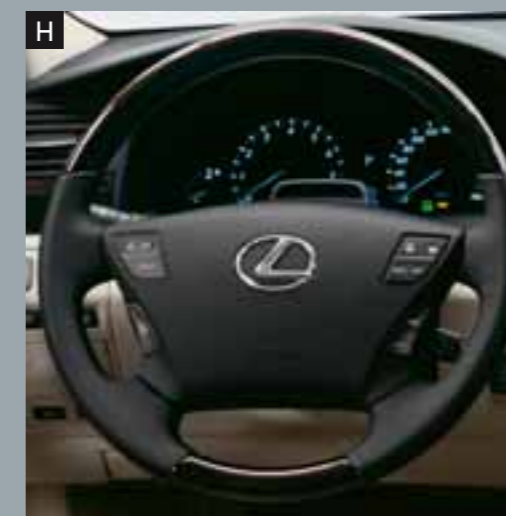
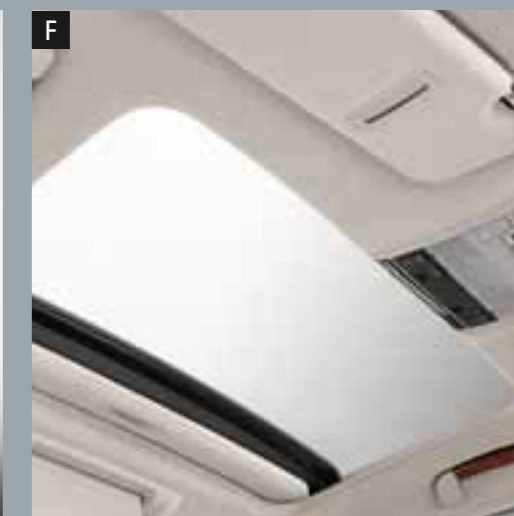
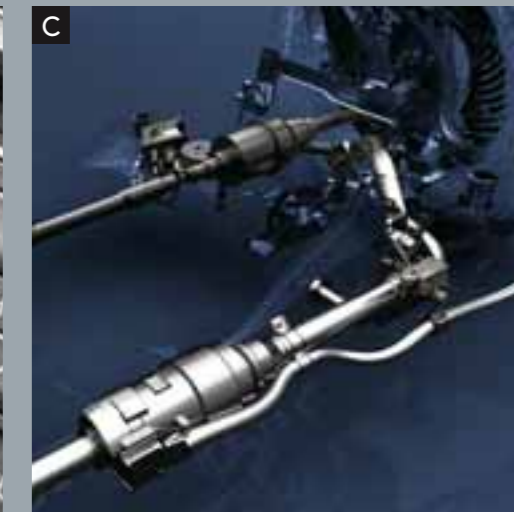
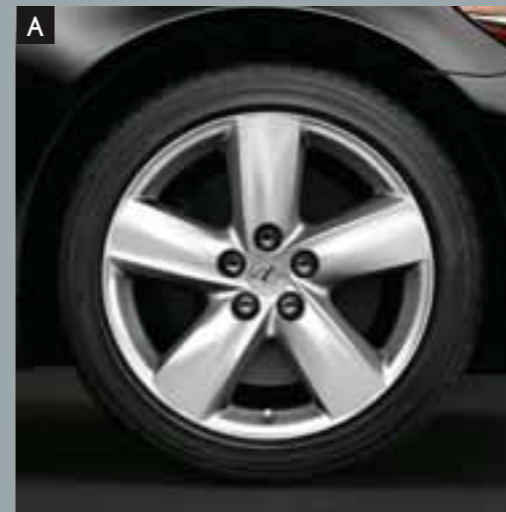
a = available to order as an accessory

o = available to order as a cost option / package

s = standard

Please note, not all options and packages are available in all countries. Certain options and packages need to be ordered in combination with one another or cannot be ordered together.

Please consult your local Lexus Authorised Retailer for further information regarding availability and ordering details in your country.



PRE-CRASH SAFETY

PRE-CRASH SAFETY SYSTEM WITH ADAPTIVE CRUISE CONTROL OPTION (All LS models)¹

Pre-Crash Safety System (PCS):

- Millimetre-wave radar: can detect obstacles ahead and determine impact risk.
- High risk: warning buzzer sounds and red 'BRAKE' alert appears.
- Pre-Crash Brake Assist: can provide increased brake pressure.
- Adaptive Variable Suspension: reduces nose-dive/improves steering response.
- Pre-Crash Brake: can automatically apply the brakes prior to impact.
- Pre-Crash Seatbelts: front seatbelts tightened prior to impact.

Adaptive Cruise Control (ACC):

- Millimetre-wave radar: linked to the engine's braking and throttle systems.
- Automatic distance control: ACC can maintain a set distance to the car ahead.

ADVANCED PRE-CRASH SAFETY AND DRIVER ASSISTANCE PACKAGE (All LS models)¹

PCS with ACC (as described above), additionally with:

- Advanced Obstacle Detection: millimetre-wave radar, stereo camera and near infra-red projectors detect a wider range of objects.
- Driver Monitoring System: pre-crash warnings can be activated if the driver is not looking at the road ahead and an obstacle is detected.
- Emergency Steering Assist: can provide improved vehicle response to rapid avoidance manoeuvres.
- Rear Pre-Crash Safety: millimetre-wave radar scans the area behind the car and Pre-Crash intelligent front headrests are activated if necessary.

Lane Keeping Assist (LKA)² comprising:

- Lane Departure Warning (LDW): can detect lane departure and encourages the driver to steer back into lane, by way of audio-visual warning and a brief corrective steering force.
- Lane Keep (LK): can provide appropriate steering torque to help the driver re-centre the car within the lane (ACC must be engaged).

¹Not available in all countries. Please consult your local Lexus Authorised Retailer regarding availability in your country. Please note: the Pre-Crash Safety System option and the Advanced Pre-Crash Safety package are designed to help reduce the crash speed and damage in certain collision situations. It is not a collision avoidance system and is not a substitute for safe and attentive driving. System effectiveness depends on many factors, such as speed, driver input, climate, weather and road conditions.

²Please note: Lane Keeping Assist is designed to reduce the level of effort required to steer the LS. It is not a steering replacement system and is not a substitute for safe and attentive driving. System effectiveness depends on many factors, such as speed, driver input, weather, climate and road conditions.

A. Millimetre-wave radar
B. Driver monitoring



INTERIOR UPGRADE PACKAGES

You can further enhance the ambience of your chosen LS model by specifying an interior upgrade package.

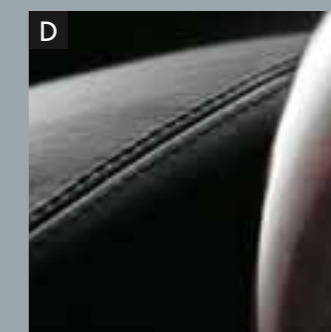
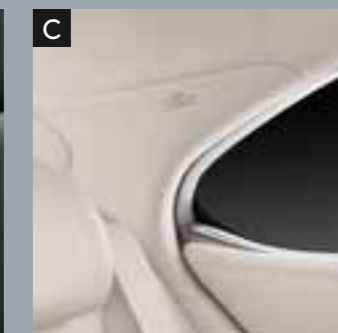
For LS 600h and LS 600h L models, you can also have the dashboard and upper door panels upholstered in leather as an optional addition to the interior upgrade package.

INTERIOR UPGRADE PACKAGES

- Semi-aniline leather seats
- Leather door integrated armrest
- Leather dashboard and upper door panels*
- Alcantara® roof-lining
- Alcantara® pillar-finishing

* Optional addition for LS 600h and LS 600h L models only.

A. Interior upgrade
B. Semi-aniline leather
C. Alcantara®
D. Leather dashboard*
E. Leather upper door panels*



REAR SEAT UPGRADE AND ENTERTAINMENT PACKAGES

REAR SEAT UPGRADE PACKAGE

- Rear seats (left and right)
- air conditioned
 - electrically adjustable with memory
 - lumbar massage, electrically operated
 - butterfly headrests
 - side airbags

- Four-zone air conditioning
- rear climate system upgrade
 - separate temperature controls, left and right
 - roof-lining mounted climate diffusers
 - sunshades, electrically operated for rear door windows
 - cool box (LS 460 / LS 460 AWD only)

- Multi-function rear centre armrest
- controls for climate, audio, seats and sunshade operation

REAR SEAT ENTERTAINMENT PACKAGE

- Rear seat entertainment system
- roof-lining mounted drop-down monitor
 - 9" colour widescreen monitor
 - remote control



A. Rear climate zones
B. Electric sunshade
C. Control panel
D. 9" widescreen



REAR SEAT RELAXATION PACKAGES



REAR SEAT RELAXATION PACKAGE - 4-seat capacity (LS 600h L only)

- Right rear seat with footrest, electrically reclining*
 - body temperature sensing climate control (via infra-red sensor)
 - front seat passenger headrest, electrically folding
 - remote control Rear Seat Relaxation System (massage functions)
 - seat cushion airbag

- Fixed rear centre console, with wood inlays and control panel
 - table with wood inlay, adjusts and retracts

- Rear seat entertainment
 - roof-lining mounted drop-down monitor
 - 9" colour widescreen monitor
 - additional independent rear DVD player and remote control

* When fully reclined with footrest extended, the front passenger seat cannot be used.

- A. Rear console controls
- B. Remote controls
- C. Adjustable table
- D. Drop-down monitor



REAR SEAT RELAXATION PACKAGE - 5-seat capacity (LS 600h L only)

- Right rear seat with footrest, electrically reclining*
 - body temperature sensing climate control (via infra-red sensor)
 - front seat passenger headrest, electrically folding
 - remote control Rear Seat Relaxation System (massage functions)
 - seat cushion airbag

- Folding rear centre armrest, with wood inlays and control panel

- Rear facing centre console with wood inlays, located between front seats

- Rear seat entertainment
 - 9" colour widescreen monitor, located in rear facing centre console
 - additional independent rear DVD player and remote control

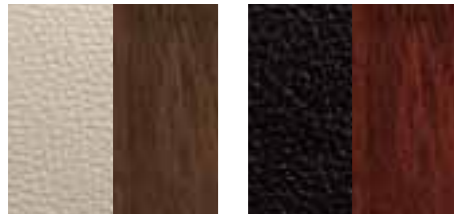
* When fully reclined with footrest extended, the front passenger seat cannot be used.

- A. 9" colour monitor, located between front seats
- B. Control panel



INTERIOR COLOURS

ALL LS MODELS
(STANDARD INTERIORS)



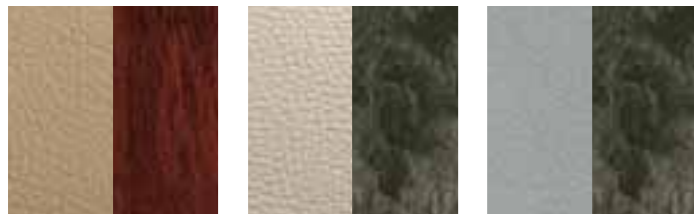
Mellow White Black
Leather with wood inlays and lower dashboard in interior colour

LS 460/LS 460 AWD
(STANDARD INTERIORS)



Light Grey Ivory
Leather with wood inlays and lower dashboard in interior colour

LS 600h/LS 600h L
(STANDARD INTERIORS)



Ivory Mellow White Venaro Grey
Leather with wood inlays and lower dashboard in black, except for Venaro Grey where the lower dashboard is also Venaro Grey

ALL LS MODELS
(UPGRADE OPTION)



Mellow White semi-aniline leather with brown ash burl wood (matt finish)



Black semi-aniline leather with medium brown walnut wood

LS 460/LS 460 AWD
(UPGRADE OPTION)



Light Grey semi-aniline leather with dark grey bird's eye maple wood



Ivory semi-aniline leather with medium brown walnut wood

LS 600h/LS 600h L
(UPGRADE OPTION)



Ivory semi-aniline leather with medium brown walnut wood



Mellow White semi-aniline leather with dark grey bird's eye maple wood



Venaro Grey semi-aniline leather with dark grey bird's eye maple wood

Please note: as only minimal differences can be seen in print between standard and semi-aniline leather, only one set of interior images is illustrated. The best way to appreciate the differences between standard and semi-aniline leather is by touch and feel. To help you choose your interior specification, your local Lexus Authorised Retailer will be pleased to show you both types of leather. Interior images are intended to illustrate interior colour combinations only.

EXTERIOR COLOURS

WHITE PEARL (077 CS)



PEARL SILVER* (1G5 MC)



MORELLO RED (3R1 CS)



DEEP EMERALD (6V6 MC)



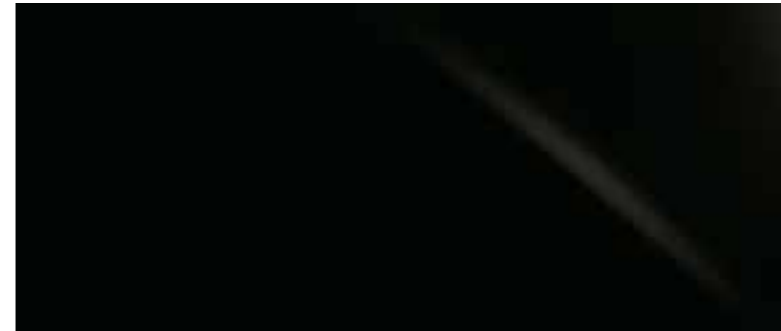
SILVER MIST (1F2 ME)



BLACK** (212 S)



STARLIGHT BLACK (217 GF)



MIDNIGHT BLUE (8V3 MC)



DARK GRANITE (1G0 MC)



DARK OPAL*** (214 MC)



SAND ECRU (4U7 ME)



SHADOW SAPPHIRE*** (8V4 ME)



* Only available for LS 460 and LS 460 AWD

** Solid colour

*** Only available for LS 600h and LS 600h L

Please note: due to printing variances, actual paintwork colours may vary slightly from those illustrated.

THE OWNERSHIP EXPERIENCE

We see caring for your Lexus as the equivalent of caring for you. Every member of the Lexus team has contributed their skills and dedication to ensure that you experience the very highest levels of care. This extends to every aspect of our service. Excellence is more than just a goal - it is a passion for every one of us.

LOOKING AFTER YOUR LEXUS

LEXUS SERVICE

Lexus Service is an invitation for you to entrust the well-being of your Lexus to dedicated professionals and an opportunity for us to provide unparalleled levels of care.

PROFESSIONAL CARE

We recommend that you always have your car serviced by a Lexus Authorised Repairer. All our certified diagnosis Master Technicians are continuously kept up to date on Lexus servicing, engineering and technology.

ENVIRONMENT

To reduce waste, parts replaced during servicing are collected and recycled, while air conditioning refrigerants are also recovered and reused. We are researching more efficient dismantling technologies for the time when the working life of your Lexus is over, and are developing ways to use shredder residue previously considered unrecyclable.

END-OF-LIFE VEHICLES

The legislation on end-of-life vehicles offers Lexus drivers a new and innovative way of returning their old vehicle to the producer.

WARRANTIES

FOR ALL VEHICLES

3-YEAR COMPREHENSIVE WARRANTY

This covers any defect attributable to a manufacturing or assembly fault under normal use. It applies for three years or 100,000 km (60,000 miles), whichever comes first, with no mileage limitation in the first year.

3-YEAR SURFACE RUST AND PAINTWORK WARRANTY

This warranty covers your vehicle for surface rust and paint defects appearing on any of the painted body panels due to a fault in material or workmanship. There is no mileage restriction.

12-YEAR CORROSION WARRANTY

The warranty offers 12 years' coverage, regardless of mileage, against perforation of bodywork (from inside to outside) that develops due to corrosion caused by faults in material or workmanship.

These warranties are transferable to subsequent owners.

LEXUS HYBRID DRIVE MODELS

5-YEAR HYBRID COMPONENT WARRANTY

For hybrid models, certain components within the hybrid drivetrain system have a 5-year or 100,000 km (60,000 miles) warranty, whichever comes first. For more information, please contact your Lexus Authorised Retailer.

MOBILITY

We want to ensure that you enjoy driving your Lexus anywhere in Europe with complete peace of mind. This is why we provide free Lexus Euro Assistance 24* for the first three years of ownership. This programme ensures your mobility, to take you where you need to go. Part of this could include, for example, towing, hotel accommodation, car hire, repatriation of the vehicle and many more services should your Lexus be immobilised, stolen, or involved in a collision.

* Please note: conditions may vary between countries. Please consult your Lexus Authorised Retailer or Repairer for details.





EXPERIENCE THE LS

The only way to truly understand what makes Lexus cars so special is to drive one yourself. Please contact your nearest Lexus Authorised Retailer or national Lexus website to arrange a test drive of the LS 460, LS 460 AWD, LS 600h or LS 600h L.

© 2010 Lexus Europe* reserves the right to alter any details of specifications and equipment without notice. Details of specifications and equipment are also subject to change to suit local conditions and requirements. Please enquire at your local Lexus Authorised Retailer of any such changes that might be required for your area.

Note: vehicles pictured and specifications detailed in this brochure may vary from models and equipment available in your area. Vehicle body colour might differ slightly from the printed photos in this brochure.

For further information please visit our website www.lexus.eu

Taking care of the environment is a priority for Lexus. We take many measures to ensure that during the lifecycles of our vehicles - from design, production, distribution, sales and service to end-of-life - their environmental impact is minimised. Your retailer will be happy to provide more information on end-of-life vehicle requirements.

* Lexus Europe is a division of Toyota Motor Europe NV/SA.

Printed in Europe, July 2010

