

THE NEW FULL HYBRID RX 450h



 LEXUS



THE NEW RX 450h

“I don’t think it would be going too far to say that the RX has done more than create a new automotive segment - it has created a new sense of value.”

TAKAYUKI KATSUDA,
Chief Engineer of the new RX 450h

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THE PIONEERING CROSSOVER

In 1998, the RX crossover became the world's first luxury SUV. Until that point, the idea of a Sports Utility Vehicle with the handling, performance, refinement and ride of a luxury sedan was just that - an idea. Lexus made it a reality.

Inspired by the pioneering tradition of the first Lexus crossover, the visionary new RX 450h delivers not only a unique synthesis of sophisticated performance, breakthrough technology and intriguing design, but also extraordinarily low CO₂ emissions for a vehicle of its size.

Built at the award-winning Lexus 'Eco Factory' at Kyushu in Japan, which was meticulously planned to reduce the environmental impact of plant and processes, the latest RX is again destined to reset benchmarks for quality and customer satisfaction.



FORWARD LIVING

"As a premium brand always striving to be ahead of its time yet in tune with society, Lexus takes environmental performance very seriously. Exemplifying this, since launching the first hybrid SUV back in 2004, Lexus Hybrid Drive has undergone constant development - and evidences the technological leadership that sets us apart from other brands. Drawing on the pioneering spirit of the first-generation model, the new RX 450h crossover demonstrates that Lexus is a carmaker seriously committed to creating a new form of sustainable luxury and values."

TAKAYUKI KATSUDA,
Chief Engineer



THE SHAPE OF TOMORROW

Fusing futuristic design cues with the Japanese passion for resolving paradoxes, the stunning new RX 450h offers all the classic space of a large SUV, while characterful lines along the shoulder and rear cabin pillar create a dynamic, coupé-like architecture.

Even at rest, the new RX 450h exudes an unmistakable aura of dynamism. Making full use of its impressive wheelbase, the crossover's tall silhouette complements an elegant and reassuring stance. And, by setting the front grille low and headlights high, Lexus designers have created a powerful look that gives a very resolute feeling to the car.

Viewed from the side, beautiful chrome window mouldings describe a graceful concave line, integrating characteristic Lexus arrowhead forms front and rear. Finished with immense precision, such details reflect the world-class quality of the new RX 450h.

LEADING-EDGE FINESSE

Contemporary Japanese design always strives for the purest possible expression. In the same way, reducing a complex form to its 'pure' state allows Lexus designers to express power and dynamism with great subtlety and economy of means, indeed almost subliminally. But this apparent simplicity is more complex than it seems at first sight. Look closer at the new RX 450h and, slowly, intriguing design elements will reveal themselves. It's a uniquely beautiful crossover, full of contrasts - evident not only in the exquisite detailing, but also in the way lines and surfaces flow through the car.

"The new RX 450h has been designed using our L-finesse (L = Leading edge) creative language. At Lexus, 'leading edge' means using the most advanced technology to make the driving experience as luxurious as possible. However, technology would be nothing without exquisite quality - hence the crucial complement of 'finesse'."

SIMON HUMPHRIES,
Group Manager, Global Design Management Division





EXQUISITELY SCULPTED

The profile of the new RX 450h is a study in aesthetics and balanced proportions. Take the roof, for example which - for an extra light and airy feeling - can, as an option, incorporate a large panoramic glass roof with a three-stage electric blind.

The roofline slopes gracefully backwards to an integral rear spoiler. This is a fine example of the incredible attention to detail invested by Lexus. Developed primarily to lower the car's drag coefficient, it was also sculpted with great skill and finesse. Closer examination reveals a rear wiper concealed under the spoiler, and a high-mounted brake light built into it, while an integrated radio antenna does away with the need for a conventional aerial.



THE NEW RX 450h

The all-new RX 450h takes another important step forward towards minimising environmental impact and maximising driving pleasure. This is made possible by second-generation Lexus Hybrid Drive, which intelligently combines a breakthrough 3.5-litre V6 petrol engine, with two high-output electric motors and an advanced compact battery. Working together, these power sources provide a maximum combined output of 220 kW. When accelerating firmly, the driver experiences astonishingly smooth linear power, with none of the jumps or delays of a conventional transmission, achieving 0 - 100 km/h in just 7.8 seconds.

Quite remarkably, although the RX 450h can match the power and acceleration of V8-powered engines, the vehicle's innovative hybrid drivetrain delivers extremely low emissions of just 145 g/km of CO₂. These are similar to those of a four-cylinder compact car.



EXTRAORDINARILY LOW EMISSIONS

The breakthrough RX 450h is fitted with a sophisticated 'Full Hybrid' system that delivers breathtaking power and extraordinarily low emissions. Uniquely, compared to other hybrid systems, this second-generation Lexus Hybrid Drive offers true 'zero emissions' capability - made possible by powerful front and rear electric motors. These will often exclusively power the vehicle at lower speeds - allowing near-silent progress, free of all CO₂, NO_x and particulate emissions. And, for the first time, RX 450h owners can now switch to Electric Vehicle (EV) mode for emission-free driving over short, low-speed distances.

The RX 450h both saves and generates energy. Heart of the car is a super-efficient V6 'Atkinson Cycle' petrol engine. For class-leading low emissions, this innovative drivetrain features an exhaust-heat recovery system that reduces engine warm-up time, allowing the unit to stop earlier, more often, and for longer periods, while a cooled exhaust-gas recirculation system improves engine efficiency even further. Additionally, when not required, the petrol engine may switch off to save fuel, while intelligent Regenerative Braking recovers energy from braking and converts this into electric power that is stored in the car's battery.





AERODYNAMIC INNOVATION

The new RX 450h delivers class-leading aerodynamics – and for good reason; smoother bodywork reduces wind resistance, which in turn reduces fuel consumption and harmful emissions. At high speeds, or in strong sidewinds, advanced streamlining also ensures quietness and stability.

To achieve an astonishingly low aerodynamic Cd (drag coefficient) of just 0.32, Chief Engineer Takayuki Katsuda and his team spent many hundreds of hours in several different wind tunnels. They reduced gaps between body panels to a minimum and even developed rear lights with integrated spoilers to smooth airflow at the back of the car, while a large composite undercover improved underbody aerodynamics. Turbulence around the front pillars is also controlled through the innovative design of the door mirrors. And to minimise drag further, the vehicle ride height of RX 450h models fitted with air suspension is automatically lowered at higher speeds.





CONFIDENT DRIVE

Along challenging roads, the new RX 450h engages like a Lexus sports sedan, yet demonstrates unshakeable composure over more rugged terrain. It also cruises effortlessly, with the refined, assured comfort that befits a Lexus, while around corners the RX 450h delivers a stable, controlled ride - with none of the rolling and pitching often associated with more traditional SUVs. This is made possible by a new and stiffer chassis, precision-engineered front suspension, and completely new double-wishbone rear suspension. For the most sure-footed drive and responsive handling, all these elements were exhaustively high-speed tested on the famous Nürburgring circuit in Germany.

To help reduce body roll even further, active stabilisers are available. This innovative dynamic technology controls vehicle roll motion, increases stability and delivers superior cornering performance, steering response and comfort.



DYNAMIC RESPONSE

Consider these paradoxes: a large premium crossover with the agility of a sports sedan; a car that is fun to drive, yet supremely comfortable; refined when driving around town, yet engaging along fast winding roads; elegantly poised, yet very responsive. In the new Lexus RX 450h all of these paradoxes have been resolved.

A key contributor to the uniquely smooth RX 450h driving experience is the new Electric Power Steering (EPS) that is extremely progressive, highly responsive and extraordinarily precise. To improve handling and high-speed stability, EPS automatically adjusts steering feel in accordance with vehicle speed.

For a safe and rewarding drive, state-of-the-art Vehicle Dynamics Integrated Management (VDIM) is fitted as standard to the new RX 450h. This Lexus innovation enables all of the car's stability and control systems to work together, ensuring a level of intervention that's much smoother and more refined than if these systems acted independently of one another. Together with the provision of engaging driving dynamics, VDIM anticipates difficult situations and makes corrections long before they get out of hand.





INTRIGUING APPROACH

The new RX 450h offers an intriguing form of courteous anticipation that begins the moment the driver approaches. Thanks to a special electronic key, the RX 450h will recognise its owner in the dark and activate a 'puddle light' fitted under the door mirror, guiding them towards the car.

To make life easy, comfortable and relaxing, Lexus applies advanced technology. For instance, to aid the driver manoeuvring in tight spaces, tiny cameras - located under the passenger-side door mirror and in the rear tailgate - will monitor hard-to-view areas and display them on the high resolution colour display screen.



JAPANESE HOSPITALITY

A highly refined sense of hospitality has always been extremely important in Japanese culture. Reflecting this, the new RX 450h strives to make a warm and lasting impression on driver and passengers. Consider your first tactile point of contact with this crossover - the door handles. These are exceptionally beautiful, with a sculpted surface that subtly twists outwards from the front to the rear. To open, a touch sensor smart switch senses your hand and unlocks the door.

As you enter the RX 450h, the futuristic instrument panel lights up to welcome you, while gentle ambient lights illuminate key areas such as the footwell, start button and gearshift. And to assist the owner in effortlessly entering and exiting, an automated system slides back the driver's seat by 50 mm, and also adjusts the steering wheel to give more room.



CROSSOVER SOPHISTICATION

Everything in the RX 450h cabin communicates an unambiguous message of sophisticated luxury and quality. Take, for instance, the leather covered steering wheel. It is meticulously machine stitched, then finished by a time-served craftsman at the Lexus Kyushu plant.

Sumptuous leather seating is also standard, with the highest quality semi-aniline leather offered as an option. Extended buffing and pressing guarantees the smoothest, most even leather possible, while ergonomically designed seats not only provide comfort and support, but are shaped to accommodate a wide range of physiques.

Futuristic styling and attention to detail are ever-present in the new RX 450h: wood trim is hand-finished, windows open and close with the slow-fast-slow motion of a traditional Japanese Fusuma sliding door, and instruments dim gracefully to leave a gentle afterglow.





VISIONARY DESIGN

Once seated, drivers will soon sense how the RX 450h enhances both relaxation and concentration, thanks to its advanced new 'dual-zone cockpit', created using futuristic ergonomic methodology to reduce the information overload often experienced by drivers.

Firstly, the 'display zone' informs the driver via an 8" display screen set back in the dashboard for improved visibility. To reduce eye movement even further, a crisp white LED multi-information display in the central instrument binnacle ensures exceptional visibility, while an optional Head-Up Display (HUD) projects key data onto the windscreen. To ensure maximum clarity, the HUD was extensively tested on the snow-covered roads of Hokkaido in Northern Japan.

Secondly, the 'operation zone' is where the driver interacts with the RX 450h. It provides easy access to, and control of, a large range of information via the Remote Touch device and the multi-information switch on the steering wheel.



INTUITIVE TOUCH

Remote Touch revolutionises the way drivers interact with the new RX 450h. Incredibly easy to use, and conveniently positioned on the centre console, Remote Touch is as natural to the driver's hand as a computer mouse.

Ergonomically optimised to reduce eye movement and unnecessary cockpit distraction, Remote Touch allows drivers and front seat passengers to control many advanced features including entertainment, climate and navigation systems. Just like a computer mouse, operating Remote Touch moves the pointer on the display screen up down, left and right. For increased operating comfort, when the pointer comes close to an icon, it is gently pulled towards that icon using a sensory reaction force. Click ENTER and the command will be completed.





ADVANCED CLIMATE CONTROL

The advanced air conditioning system, fitted as standard to the new RX 450h, distributes air quietly and evenly throughout the cabin without unwelcome drafts. The system allows independent control of left and right, upper and lower cabin air zones. Uniquely, the climate system can be powered exclusively by the hybrid battery without the engine running.

Precise cabin temperatures are maintained by a variety of sensors in the interior, which monitor sunlight, temperature and humidity. Even if sunshine warms the upper body of driver or passengers, upper and lower temperatures will automatically be controlled to compensate. As you would expect of a sports crossover, the RX interior warms up as quickly as it cools down (Lexus tested it in their Arctic simulation laboratory), and windows benefit from special de-icing and de-fogging jets.

The air you breathe in the RX 450h is very clean too as there's a special filter to reduce airborne pollen, diesel particles and dust. Nor will you be troubled by exhaust fumes entering the cabin: the system monitors outside air quality and, if necessary, switches to internal circulation, maintaining ideal conditions inside until it senses that external conditions have improved sufficiently.



DIGITAL ENTERTAINMENT

The perfect environment in which to enjoy music, videos, or other digital media, the new RX 450h can be ordered with a 9, 12 or 15-speaker stereo system. Top of the range is the 15-speaker Mark Levinson® Premium Surround system, which offers exceptional fidelity and clarity. With it, passengers enjoy perfect 7.1-channel surround sound for their favourite CDs and DVDs. Also, all models have an auxiliary input and USB port which enables the use of iPods® or other media players. True to its forward-thinking concept, the RX is also DAB (Digital Audio Broadcasting) 'ready'. And, when fitted with the Mark Levinson® Premium Surround system, the 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.

For the top-of-the-range system, Lexus and Mark Levinson spent many hundreds of hours on laboratory and on-road development to optimise and match the Premium Surround system with the acoustic characteristics of the new RX 450h passenger cabin. Key to its superlative performance are no fewer than 15 loudspeakers, each one custom-engineered for the particular acoustic characteristics and location within the cabin.

To increase enjoyment on longer journeys, the Mark Levinson® option can be extended to include a dual-screen Rear Seat Entertainment system. With 7" LCD screens located behind the driver's and front passenger's headrests, it can be used as a DVD player, audio player or game console via audio and video input jacks. For added convenience, a single remote control is used for both systems.

EFFORTLESS VERSATILITY

The interior of the RX 450h is highly luxurious, but also very practical. Take seating combinations, for example. The rear seats can split 40/20/40 – and there's a 'One-Touch Tumble' mechanism that lets you quickly fold them away when more space is required for bulky items. For added flexibility, the rear seats can also be moved backwards and forwards, whilst the backrest can be reclined for enhanced rear seat comfort on longer journeys.

The RX 450h's luggage compartment is roomy and increases greatly when the rear seats are folded down. The wide and unobstructed cargo area maximises usable space for stowing large objects like suitcases or up to four sets of golf clubs. For extra convenience, a vehicle height adjustment switch allows the rear of the vehicle to be lowered and raised for easy loading (for models with air suspension). An optional electrically operated tailgate adds even further comfort.

Inside, the new RX 450h also offers a great deal of useful storage space. Owners and their guests will enjoy discovering the centre console with modular stowage capability, large glove compartment, space under the rear armrest, and numerous other storage containers.





WORLD-CLASS SAFETY

Featuring an array of advanced safety features and world-first innovations, the new RX 450h is an extraordinarily safe car in which to travel. Advanced features such as the Head-Up Display let drivers keep their eyes on the road ahead, while Remote Touch offers seamless car-driver interaction. An Intelligent-Adaptive Front-lighting System (I-AFS) helps you to see round corners without blinding oncoming traffic at night, while a Pre-Crash Safety System offers comprehensive driver support.

In developing the new RX 450h, Lexus aimed for the highest level of active and passive safety performance. For maximum protection, approximately 42% of the entire body mass uses high tensile steel, achieving a lightweight and exceptionally rigid structure. Endorsing this, internal test results show that the RX meets and exceeds the requirements of global safety test standards. And should a collision ever occur, the new RX 450h features a class-leading shield of ten airbags and active front headrests that are there to protect you.





RX INNOVATION

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INVENTED BY LEXUS

For many years, luxury car manufacturers struggled with the question of how to deliver more power without simply building bigger engines that burn more fuel and produce more emissions. The breakthrough came in 2004, with the arrival of Lexus Hybrid Drive.

By intelligently combining a super-efficient petrol engine with one or more high-output electric motors, Lexus Hybrid Drive innovatively achieves what was previously impossible: the power and acceleration of a high-performance luxury car with the impressive fuel economy and lower emissions of a smaller vehicle. Furthermore, the power is delivered with such unparalleled quietness, responsiveness and sophistication that it takes the automotive experience to a higher level.

Importantly, from the very beginning, for maximum performance and zero-emission capability, Lexus chose to develop a more advanced series/parallel hybrid system. Often called 'Full Hybrid', this system allows Lexus hybrids to run entirely on electric power at start up or lower speeds.

The Lexus future-driven approach has led to a complete range of hybrid cars. And, leading the way forward, second-generation Lexus Hybrid Drive has been developed for the new RX 450h crossover, which delivers 220 kW of incredibly smooth power, while producing just 145 g/km of CO₂.



RX 450h: SECOND-GENERATION LEXUS HYBRID DRIVE

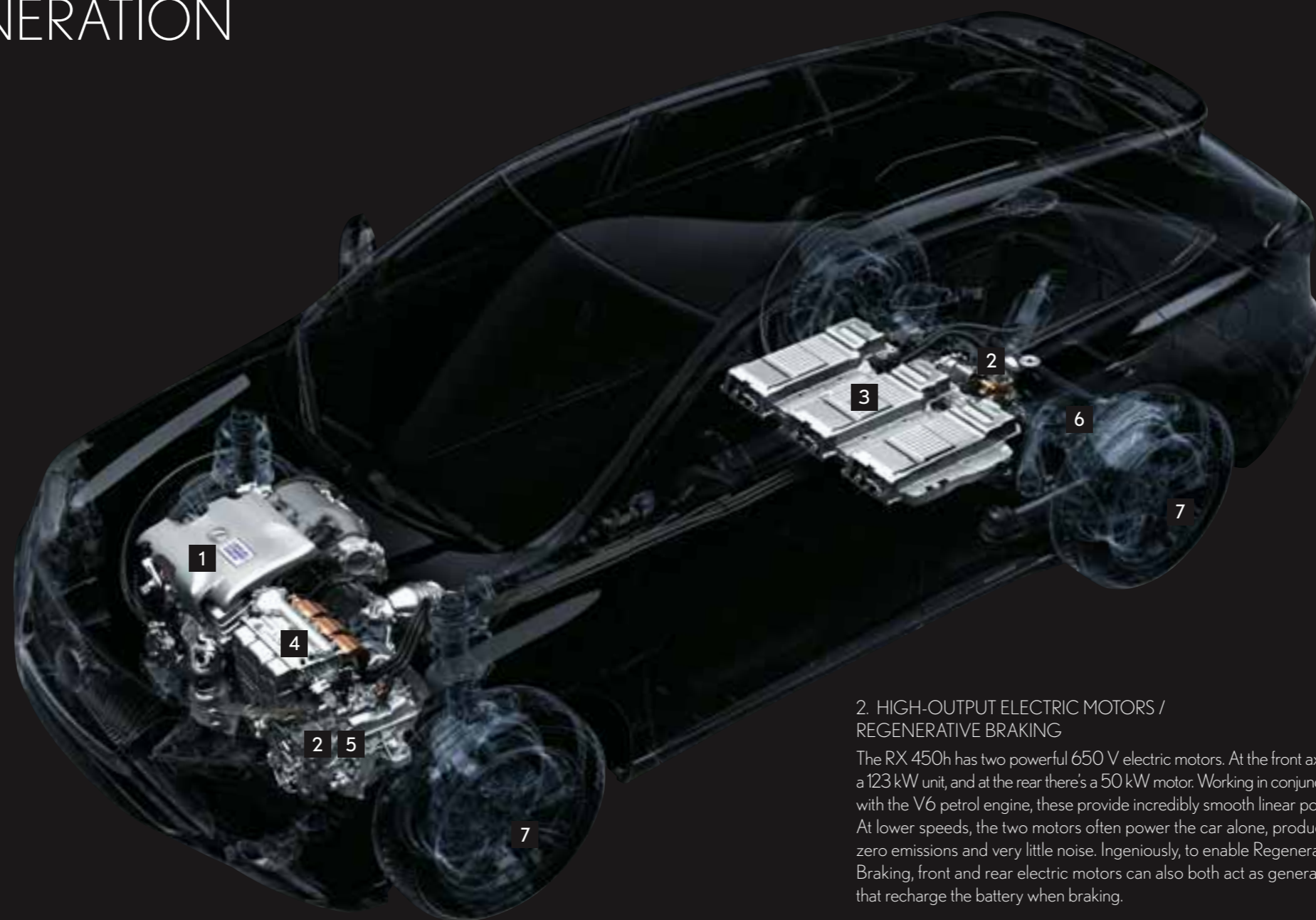
For astonishing crossover performance and low emissions of just 145 g/km of CO₂, the RX 450h intelligently orchestrates a combination of a super-efficient 3.5-litre V6 petrol engine with two high-output electric motors, advanced compact battery, seamless hybrid transmission and a breakthrough new power control unit.

1. 3.5-LITRE V6 ENGINE

An advanced 3.5-litre V6 'Atkinson Cycle' petrol engine is used in the new RX 450h. Featuring a high expansion ratio, the combustion process can be likened to somebody taking a short deep breath, and then breathing out very slowly. This ensures optimum power from the fuel/air mix. As an integral element of Lexus Hybrid Drive, the new engine helps deliver a unique combination of 220 kW of smooth power, low emissions and frugal fuel consumption. Able to silently shut down when not required, the engine is tuned for energy-efficient running.

An innovative cooled Exhaust Gas Recirculation (EGR) system is fitted to the new V6. Depending on running conditions, a precise amount of exhaust gas is introduced into the engine's intake to decrease pumping losses (how hard the engine has to work to draw in the necessary fuel / air mix) and improve combustion, which in turn delivers greatly improved fuel economy and lower emissions.

An advanced Exhaust Heat Recovery unit is also installed in the exhaust system behind the catalytic converter. Here, waste exhaust heat is used to warm up the V6 engine more quickly. Together with improved battery management, it allows the engine to switch off earlier and more often, leading to a reduction in fuel consumption and emissions.



2. HIGH-OUTPUT ELECTRIC MOTORS / REGENERATIVE BRAKING

The RX 450h has two powerful 650 V electric motors. At the front axle is a 123 kW unit, and at the rear there's a 50 kW motor. Working in conjunction with the V6 petrol engine, these provide incredibly smooth linear power. At lower speeds, the two motors often power the car alone, producing zero emissions and very little noise. Ingeniously, to enable Regenerative Braking, front and rear electric motors can also both act as generators that recharge the battery when braking.

3. ADVANCED COMPACT BATTERY

Lexus Hybrid Drive features a high-output, nickel-metal hydride (Ni-MH) 288 V battery which is controlled by sophisticated energy-management software. Located under the rear seats - without compromising interior space or comfort in any way - the battery is constantly recharged by the operation of Lexus Hybrid Drive and requires no external charging.

4. POWER CONTROL UNIT

The groundbreaking Power Control Unit (PCU) is the brain of Lexus Hybrid Drive and smoothly controls the allocation of power resources to ensure optimum efficiency at all times. With one of the world's highest power densities, the PCU delivers astonishing power when you need it.

5. HYBRID TRANSMISSION

Lexus Hybrid Drive's front electric motor, generator and power split planetary gear mechanism are all housed together in the Hybrid Transmission. Here, the two motive forces of Lexus Hybrid Drive - electrical and mechanical power - are combined using infinitely variable gear ratios that continuously change depending on vehicle speed and engine rpm.

6. E-FOUR

The RX 450h is fitted with a revolutionary All-Wheel Drive system, called E-FOUR. Extremely light, and able to deliver almost instant torque, All-Wheel Drive capability is delivered by an advanced 50 kW electric motor mounted on the rear axle, which delivers power only when required.

7. ELECTRONICALLY CONTROLLED BRAKING

A pioneering Electronically Controlled Braking (ECB) not only improves overall vehicle braking performance, but also facilitates Regenerative Braking, a positive side-effect being the reduction of brake pad/disc wear.

RX 450h: HYBRID INTELLIGENCE

The RX 450h's second-generation Lexus Hybrid Drive is extremely intelligent and offers an innovative range of advanced new control features such as Electric Vehicle (EV) mode for 'zero emissions' driving and ECO mode for reducing the crossover's environmental impact.



ELECTRIC VEHICLE MODE

The multi-information switch on the steering wheel allows the RX 450h driver to select Electric Vehicle (EV) mode when required. Using the car's two powerful electric motors, this feature enables near silent 'zero-emission' progress.

ECO MODE

The driver can also activate ECO mode that retunes the throttle control and the air conditioning to reduce both emissions and fuel consumption, thus lowering the car's carbon footprint.

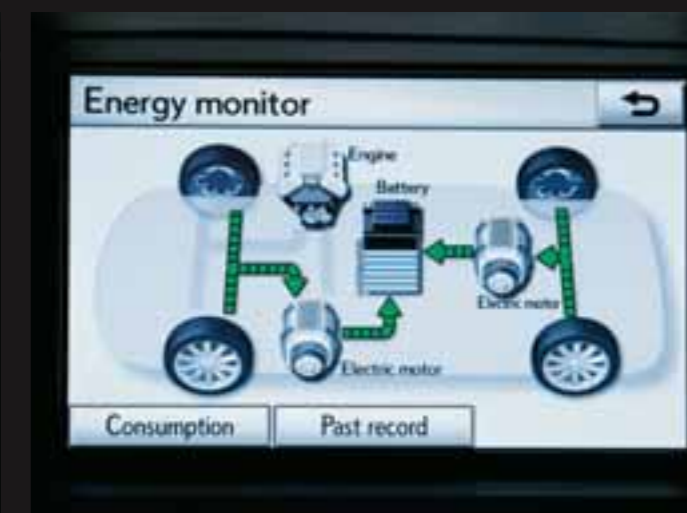
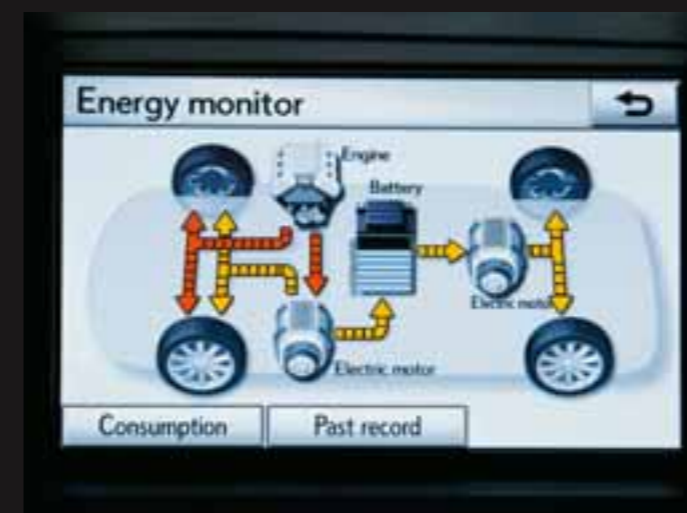
SNOW MODE

When starting off on a snowy or slippery road, the activation of SNOW mode enables Lexus Hybrid Drive to adjust torque to all four wheels and allow confident, trouble-free progress in winter conditions.

AI-SHIFT CONTROL / SEQUENTIAL SHIFT

Another first on Lexus hybrids, the Artificial Intelligence-SHIFT (AI-SHIFT) control software on the RX 450h constantly assesses road conditions and the driver's intentions in order to automatically manage the shift pattern in the most appropriate manner, thus realising a new benchmark in crossover driving comfort.

For an even more dynamic drive, the new RX 450h also allows manual style gear changes using the '+' and '-' function when the gearshift is in the 'S' position. This enables, for instance, greater engine braking by downshifting - important when driving in mountainous regions.



HOW DOES LEXUS HYBRID DRIVE WORK?

Whilst enjoying a drive that is often silent, and always smooth, watching the power flow animations on the car's 8" colour central LCD multi-display screen will demonstrate that there's far more to Lexus Hybrid Drive than you may originally have thought.

For instance, the system is overseen by the Power Control Unit (PCU), which is constantly working behind the scenes to optimise power distribution needs - and those of the environment. When a strong surge of power is called for, the PCU puts the combined resources of the V6 petrol engine and the electric motors at your disposal.

At other times - when braking for example - the battery is charged using Regenerative Braking, making use of kinetic energy that in other cars is wasted as heat and noise. As you coast or descend a hill, the system may see an opportunity to save petrol by switching off the engine. When appropriate, the RX 450h also converts kinetic energy into electric energy, which is stored in the battery for later use by the electric motors.

At lower speeds - in city traffic, for example - power may come solely from the electric motors, giving near silent progress that is free of all emissions - not only CO₂ but also NO_x and particulates.

The changeover from petrol to electric-powered ride - and vice versa - happens so smoothly that you may never even notice when the V6 engine starts or stops.

ADVANCED DRIVING DYNAMICS

Behind the wheel, RX 450h drivers experience a crossover that is beautifully balanced and pleasingly agile. Steering is effortlessly smooth, and responses are precise, thanks to a chassis of great rigidity and a combination of suspension components that have been engineered to the finest tolerances.



NEW DOUBLE-WISHBONE REAR SUSPENSION

An all-new trailing double-wishbone rear suspension, developed specially for the new RX 450h, delivers outstanding road holding, sports sedan-like cornering characteristics and superb straight-line stability. More complex to manufacture than simpler, strut-based alternatives, double-wishbone suspension is an innovative technology originally developed for racing cars. And, thanks to the compact height of this suspension, it encroaches far less into the rear luggage compartment.



ACTIVE STABILISERS

For even more dynamic control, an active stabiliser system is offered on the new RX 450h. It is the first of its kind on any crossover. The system uses electrically adjustable front and rear anti-roll bars to deliver less body lean around corners and precision steering response during high-performance driving, without any compromise to ride comfort.



ELECTRONICALLY CONTROLLED AIR SUSPENSION

For a refined and stable drive, the RX 450h can be ordered with electronically controlled air suspension. Unlike conventional coil springs, air suspension achieves a consistent vehicle height regardless of the number of occupants and the amount of luggage on board. Furthermore, when travelling at high speeds, the vehicle will automatically lower by 20 mm at the front and by 5 mm at the rear, reducing wind resistance and ensuring driving stability. In addition, at the touch of a button, air suspension also allows owners to lower the rear of their RX 450h by 30 mm for easier loading of heavy or bulky objects.

- A. Hi mode
- B. Normal mode
- C. Loading mode

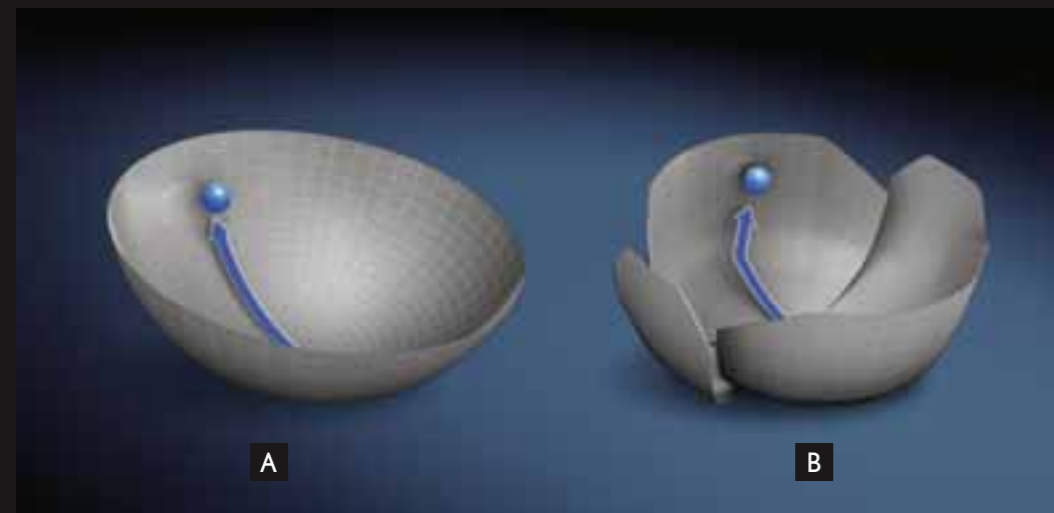


ELECTRIC POWER STEERING

A precise Electric Power Steering (EPS) system is fitted as standard to the RX 450h crossover. At lower speeds, the steering feels lighter. As you accelerate, it progressively becomes reassuringly solid and secure. Additionally, this reduces fuel consumption and emissions compared to hydraulic steering systems.

VEHICLE DYNAMICS INTEGRATED MANAGEMENT

Latest generation Vehicle Dynamics Integrated Management (VDIM) is optimally matched to the performance of the newly designed RX 450h suspension and to E-FOUR. It realises this by smoothly applying VDIM control before the vehicle reaches its performance limit.



VEHICLE DYNAMICS INTEGRATED MANAGEMENT

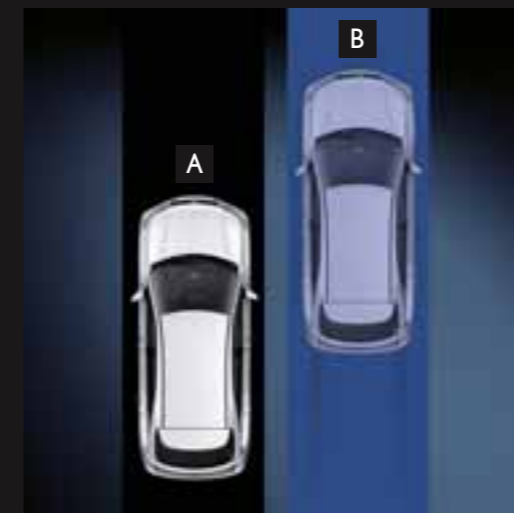
Vehicle Dynamics Integrated Management (VDIM) works by acquiring data from a host of sensors strategically placed throughout the RX 450h. Information received includes wheel rotation, brake pressure and movement of the car's body. Thus informed, VDIM will apply the car's stability and safety systems to varying degrees, achieving a seamless optimum that could not be reached if each application worked independently.

- A. ABS, EBD, BAS, TRC and VSC all working together
- B. ABS, EBD, BAS, TRC and VSC not working together



ELECTRONIC BRAKE FORCE DISTRIBUTION

Electronic Brake force Distribution (EBD) works with ABS to ensure that the most effective brake force is applied to each wheel, according to road conditions. By preventing the RX 450h's wheels from locking, EBD helps to maintain sure-footed stability during cornering and braking.



BRAKE ASSIST SYSTEM

Brake Assist System (BAS) comes into action during emergency braking when many drivers fail to apply sufficient force to the brake pedal, or release brake pressure too soon. If either of these situations occurs, the Brake Assist System fitted to the RX 450h anticipates the need for extra braking force and applies it automatically. For extra safety when braking heavily, the rear brake lights will also flash to warn drivers behind of the emergency situation.

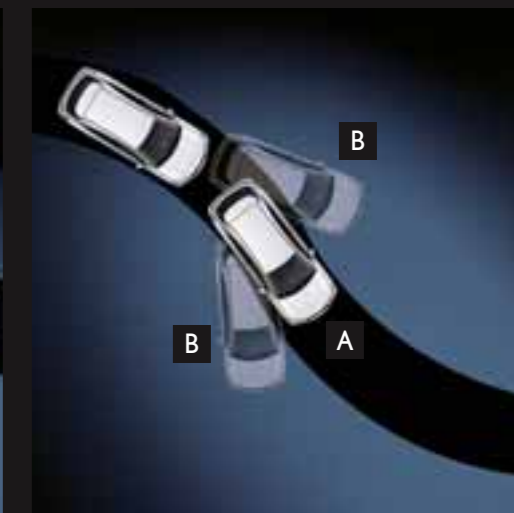
- A. With BAS
- B. Without BAS



TRACTION CONTROL

Traction Control (TRC) heightens the RX 450h's ability to grip the road, and is an important safety aid in many situations, particularly when travelling over slippery or uneven road surfaces. If TRC detects that one or more wheels are starting to spin and lose traction, the system's skid control computer instantly determines the best way to restore traction to that wheel by reducing power, or even braking. For use in poor road conditions, the new RX 450h is also fitted with a function to cancel the TRC and VSC functions. By turning these off, the driver can call on extra traction in mud or snow.

- A. With TRC
- B. Without TRC



VEHICLE STABILITY CONTROL

Vehicle Stability Control (VSC) is there to prevent loss of control of the RX 450h if, for instance, you enter a corner too fast or encounter slippery conditions that might lead to a skid. The system acquires data from a host of sensors placed strategically throughout the crossover. These include wheel rotation speed, brake pressure and body movement. If the system calculates that the driver is about to lose control of the car, it will apply various stability and safety systems to varying degrees. In a skid, for example, the system will judiciously apply the brakes or reduce power to enable the driver to regain control of the car.

- A. With VSC
- B. Without VSC

PRE-CRASH SAFETY AND DRIVER SUPPORT

For a relaxed and safe drive, Lexus has aimed for ergonomic excellence in the new RX 450h, which also offers a complete range of innovative driver support systems to enhance your natural road skills.

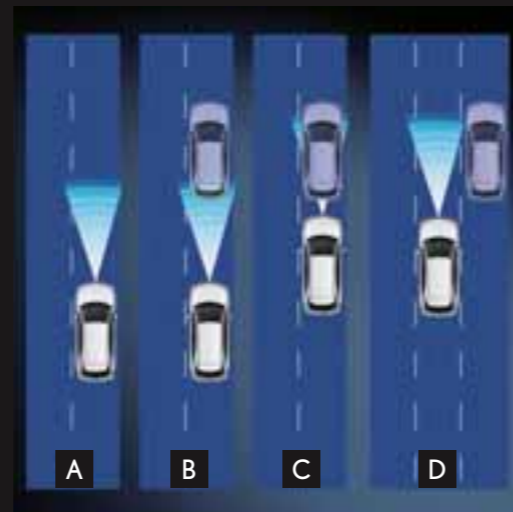


PRE-CRASH SAFETY SYSTEM

The Lexus Pre-Crash Safety System* (PCS) is an example of how the new RX 450h can effectively help maximise your safety, in this case, in those vital first split seconds before a collision. When fitted with PCS, a millimetre-wave radar sensor mounted behind the Lexus 'L' on the front grille detects objects in front of the car. If the system detects a high-risk situation, PCS alerts the driver with a warning buzzer and 'BRAKE' signal. It also activates Pre-Crash Brake Assist, which can provide the driver with increased brake pressure (and even stiffens the air suspension for better handling, if fitted).

If a collision is subsequently deemed unavoidable, PCS engages Pre-Crash Brake, which can automatically apply the brakes prior to impact, to help reduce collision force. Pre-Crash Seatbelts are also activated, automatically retracting both front seatbelts in the instant before impact, to help reduce injury.

* Please note: the Pre-Crash Safety System (PCS) is designed to help reduce crash speed and damage in certain frontal collisions only. It is not a collision avoidance system. Adaptive Cruise Control (ACC) is designed to reduce the amount of driver effort required when travelling longer distances. Neither system is a substitute for safe and attentive driving. System effectiveness depends on many factors, such as speed, driver input, climate, weather and road conditions. Please also note our Pre-Crash Safety System (PCS) with Adaptive Cruise Control (ACC) is not available in all countries, so please consult your local Lexus Authorised Retailer regarding availability in your country.



ADAPTIVE CRUISE CONTROL

Adaptive Cruise Control (ACC) works in tandem with the Pre-Crash Safety System (PCS), and it uses the same advanced radar technology. With ACC, the radar is linked to the car's braking and throttle systems. This enables the system, within a certain speed range, to maintain a set distance between the RX 450h and the vehicle ahead, even if that vehicle varies its speed. Once the road is clear, ACC automatically returns to the originally specified cruising speed. The driver can select long, middle or short vehicle-to-vehicle distances and the system's control status is clearly displayed on the car's Multi-Information Display.

- A. Constant speed
- B. Deceleration control
- C. Following control
- D. Acceleration control



LED HEADLIGHTS / INTELLIGENT-ADAPTIVE FRONT-LIGHTING

The optional jewel-like lights on the new RX 450h are the world's first application of low-beam LED (Light Emitting Diode) headlight technology in a luxury crossover. Not merely beautiful, they also offer extremely focused light, use less energy and last longer than conventional bulbs. To help you see around corners, the RX 450h is also equipped with an Intelligent-Adaptive Front-lighting System (I-AFS). This automatically swivels the headlights into approaching corners, revealing details that would not otherwise be visible.



PARKING ASSIST MONITOR

Operating through the central display screen, or a screen integrated into the rear-view interior mirror (when the central display is not specified), the Parking Assist Monitor shows a full-colour video image of the area to the rear of the car. Even greater manoeuvring accuracy is promoted by screen-generated guidelines, which indicate the prospective path of the vehicle based on your steering position.



SIDE MONITOR

A Side Monitor to assist with close-quarter parking can be ordered on the new RX 450h. This uses a tiny camera incorporated into the passenger door mirror that transmits video images to the car's central display. For added security, the door mirror camera will also continue to work, even if the mirrors are folded back when negotiating a narrow entrance.

ENGINEERED STRENGTH

Whilst developing the new RX 450h, Lexus did not just aim to satisfy all current and anticipated safety regulations and assessments. The new RX 450h has been designed to excel in all global safety tests. To ensure best possible safety, Lexus crashed over two hundred vehicles during the development process. Reassuringly, internal test results show that the vehicle meets and exceeds all current front and side collision safety regulations.

Crucial to the safety of any larger crossover is an incredibly strong passenger cell. More than 40% of the new RX 450h body mass is high tensile strength sheet steel, which gives a lightweight and highly rigid body structure. Crumple zones front and rear absorb energy in a crash, while the steering column is also engineered to collapse in a frontal collision, rather than be pushed towards the driver. Strengthened pillars, floor members and side impact beams absorb and distribute energy in the event of a side impact. Roof lining and pillars are trimmed with impact-absorbing material to help prevent head injury. And an energy-absorbing space-frame seat design minimises the risk of a spinal injury in the event of a rear-end collision.



360° PROTECTION

In addition to impact-absorbing crumple zones and a rigid passenger safety cell structure, ten airbags are placed strategically around the front, side, rear and top of the RX 450h cabin to minimise the risk of injury during an accident.



ACTIVE HEADRESTS

In the event of a rear collision, the occupant's lower back triggers a mechanism built into the front seat seatback. This pushes the headrest up while moving it forward to quickly support the occupant's head, thus alleviating whiplash.



TWIN-CHAMBER PASSENGER AIRBAG

The new RX 450h twin-chamber passenger airbag takes passenger safety to the next level. In the numerous crash tests Lexus engineers noticed how the front seat passenger travelled further than the driver before hitting the front airbag. So, in order to safely 'catch' the passenger, a shape similar to a baseball catcher's glove was designed. This new twin-chamber airbag has received a breakthrough technology award in the USA.



KNEE AIRBAGS

Knee airbags are specified in the new RX 450h for both front seat occupants. In the event of a frontal collision, the knee airbags supplement the seatbelts and front airbags to provide an equal distribution of restraining force, ensuring the safety of each occupant.

CURTAIN SHIELD AIRBAGS

In the event of a side collision, the curtain shield airbags will deploy across the side windows, protecting the heads of the occupants in both the front and rear seats. The curtain shield airbags were also designed to alleviate and disperse head impacts from an object outside the vehicle, such as a telegraph pole or another vehicle, as well as interior objects such as trim. Additionally, they are designed to inflate automatically and protect passengers' heads in the unlikely event of the RX 450h rolling over.

SIDE AIRBAGS

Extra protection is also built into the front and rear seats, with side airbags that are wide enough to protect the occupant's chest even while the seatback is reclined.

INTERIOR FLEXIBILITY

The interior of the new RX 450h crossover is highly luxurious but, to support the most active of lifestyles, it's also extremely practical.



INTELLIGENT STORAGE SPACE

Lexus believes that generous storage space is a pre-requisite for a sophisticated crossover. Hence, the RX 450h has an interior where every centimetre of space has been carefully planned to fulfil a purpose. For instance, there's a hidden storage area under the multi-function centre console, and door pockets are large enough to accommodate large 1.5-litre water bottles.



FLEXIBLE LUGGAGE COMPARTMENT

The luggage compartment also features a luggage cover divided into two sections between the tailgate and vehicle interior, which greatly improves access to luggage. Levers to fold down the rear seats in one simple operation are fitted on the side of the seats and in the luggage compartment, while a vehicle height adjustment switch on the side trim allows the height of the vehicle to be lowered and raised by 30 mm (models with air suspension) to facilitate easier loading/unloading.



VERSATILE SEATING

Seats can fold down independently or together to offer a wide variety of luggage storage options and, with all rear seats folded down, there's room to carry the most cumbersome of objects. When the central section is lowered, longer objects such as skis can extend through from the luggage compartment. With one of the wider seat backs dropped, there's ample room to carry a

mountain bike. The rear seats can also be slid backwards or forwards to increase either boot space, or rear legroom, depending on your travel requirements. And, particularly relaxing on long journeys, the rear seatbacks can be reclined for added passenger comfort.



SELECT

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RX 450h

TECHNICAL DATA

ENGINE		CO ₂ EMISSIONS* (g/km)	
Capacity (cm ³)	3456	Emissions level	Euro V
Cylinders/valves	V6/24	Urban	147
Valve mechanism	VVT-i	Extra urban	145
Fuel type	Petrol, 95 octane or +	Combined	145
Max. power (kW @ rpm)	183 @ 6000		
Max. torque (Nm @ rpm)	317 @ 4800		
TRANSMISSION		BRAKES	
Driven wheels	Part-time All-Wheel Drive (E-FOUR)	Front	Ventilated discs
Transmission	Hybrid drive transmission, incorporating Electronic-Continuously Variable Transmission (E-CVT) with sequential shift mode	Rear	Ventilated discs
HYBRID DRIVE		SUSPENSION	
Maximum system output (kW)	220	Front	MacPherson strut, coil springs
Electric front motor		Rear	Double wishbone
- Type	AC synchronous, permanent magnet	Active stabilisers or air suspension	Optional
- Maximum output (kW)	123		
- Maximum torque (Nm)	335		
Electric rear motor		STEERING	
- Type	AC synchronous, permanent magnet	Type	Rack and pinion with Electric Power Steering (EPS)
- Maximum output (kW)	50	Turns (lock to lock)	2.79
- Maximum torque (Nm)	139	Minimum turning radius (m)	5.7
Electric generator		WEIGHTS (kg)	
- Type	AC synchronous, permanent magnet	Gross vehicle weight	2700
- Voltage (V)	650	Kerb weight (min.-max.)	2110-2205
High voltage battery		Towing capacity (with brakes)	2000
- Type	Nickel-Metal Hydride (Ni-MH)	Towing capacity (without brakes)	750
- Voltage (V)	288	DRAG COEFFICIENT	
PERFORMANCE		Cd value	0.32
Max. speed (km/h)	200	CAPACITIES	
0-100 km/h (s)	7.8	Fuel tank	65
FUEL CONSUMPTION* (l/100 km)		Luggage compartment ¹	496/825/1570
Urban	6.5	LOADING DIMENSIONS (mm)	
Extra urban	6.0	Cargo loading height	750
Combined	6.3	Cargo loading length	995
		Cargo loading width	1430

* 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 Calculated as per VDA method on a vehicle with a temporary spare wheel. 1st figure: rear seats upright and loaded in line with the top of the rear seats. 2nd figure: rear seats folded down and loaded in line with luggage cover. 3rd figure: rear seats folded down and loaded to roof height. With a full size spare wheel, each figure is reduced by 71 litres.



* Overall height = 1680 mm (+30 mm in Hi mode, -20 mm front / -5 mm rear in Lo mode and -30 mm in loading mode) when specified with optional air suspension.

RX 450h

STANDARD EQUIPMENT

ACTIVE SAFETY & DRIVING DYNAMICS

Anti-lock Braking System (ABS)
 Brake Assist System (BAS)
 Electric Power Steering (EPS), speed-sensitive
 Electronic Brake force Distribution (EBD)
 Electronically Controlled Braking (ECB)
 Emergency Brake Signal (EBS)
 Hill-start Assist Control (HAC)
 Traction Control System (TRC)
 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 and rear seatbelts reminder
 Full-length curtain shield side airbags, left and right
 ISOFIX attachment, outer rear seats
 Knee airbags, driver and front passenger
 Rear side airbags
 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

18" alloy wheels, 5-spoke design
 - 235/60 R18 tyres
 Daytime running lights*
 Door handles, body-coloured
 - front with smart sensor
 Door mirrors, body-coloured
 - electrically adjustable, folding and heated
 - electro chromatic (auto-dimming)
 - integral turn signal indicators
 Front foglights
 High Intensity Discharge (HID) bi-xenon headlights with auto on/off function
 - auto-levelling with pop-up cleaners
 Intelligent-Adaptive Front-lighting System (I-AFS)
 Laminated glass windscreen
 Light Emitting Diode (LED) tail and brake lights and licence plate illumination
 Privacy glass, rear window and rear door windows
 Rain sensing wipers
 Rear spoiler, body-coloured
 Rear wiper
 Roof rails*
 Ultra Violet (UV) and heat insulating tinted glass
 Water-repellent glass, windscreen
 Windscreen de-icer*

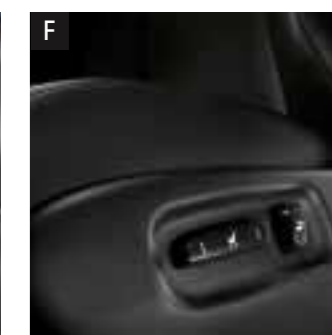
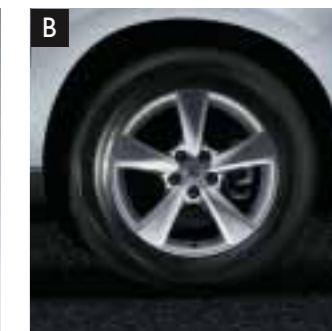
AUDIO, COMMUNICATION & INFORMATION

9-speaker premium audio system
 - FM/AM RDS tuner
 - in-dash, single-slot 6-CD autochanger
 - MP3/WMA compatibility
 - USB port and AUX socket for audio connectivity
 Bluetooth® mobile phone connectivity**
 Eco Driving Indicator
 Electric Vehicle (EV) mode
 Multi-information display
 - Organic Light Emitting Diode (OLED) technology
 - user-customised mode
 Optitron instrumentation
 Power meter
 Steering wheel mounted controls
 - audio system
 - multi-information display modes
 - phone
 - voice command

INTERIOR COMFORT AND CONVENIENCE

12V accessory power outlet in luggage area
 40/20/40 foldable rear seats, with one-touch remote folding
 Adjustable rear seats, with slide function
 Cruise control
 Decorative dark grey gloss inlays
 Easy exit and entry facility
 - driver's seat/steering wheel with retract/return function
 Eco mode
 Electronic climate control air conditioning system
 - clean air filter with pollen removal mode
 - separate driver/passenger temperature controls
 Front centre armrest/console storage box
 - flexible storage
 - 2 x 12V sockets/USB port/AUX socket
 Front seats, electrically adjustable
 - 8-way adjustment, driver and passenger
 - seat heating, variable temperature
 - adjustable lumbar support
 Full-size alloy spare wheel (235/60 R18 tyre)/Temporary spare wheel (165/90 D18 tyre)*
 Illuminated entry system with puddle lamps
 Leather trimmed steering wheel and gearshift lever
 Leather upholstery
 - memory (3 pre-sets) for driver's seat, steering wheel and door mirrors
 - seat heating, variable temperature
 One-touch electrically operated windows, front and rear
 Push start button
 Rear centre armrest, with storage space and 2 cup holders
 Rear-view mirror, electro chromatic (auto-dimming)
 Retractable luggage cover
 Smart entry and start system
 Steering wheel, electrically multi-adjustable

- A. Active front headrest
- B. 18" alloy wheel, 5-spoke design
- C. Power meter
- D. Multi-information display
- E. Premium audio system
- F. Leather front seats, electrically adjustable



* Please consult your local Lexus Authorised Retailer for information regarding the specification status of this equipment item in your country.

** Requires mobile phone to incorporate Bluetooth® technology. Please consult your local Lexus Authorised Retailer for a full list of compatible phones or to check the suitability of your existing mobile phone.

RX 450h EXECUTIVE GRADE

You can significantly enhance the specification of your RX 450h by opting for one of our carefully tailored grades.

EXECUTIVE GRADE

Additional equipment over standard RX 450h model:

- 19" alloy wheels
 - 235/55 R19 tyres
- 12-speaker, upgraded premium audio system
- Automatic air-recirculation control
- Navigation package
 - 8" colour LCD multi-display
 - Hard Disk Drive (HDD) navigation system with Dynamic Route Guidance (DRG)*
 - multiple display screens to control/monitor vehicle systems, e.g. audio/climate/on-board computer
 - parking assist monitor
 - Remote Touch system
- Parking assist sensors, front and rear

* Dynamic Route Guidance (DRG) is not available in all countries.



- A. 19" alloy wheel
- B. 12-speaker, upgraded audio
- C. 8" colour LCD multi-display
- D. Remote Touch system
- E. Parking assist sensor

RX 450h TECHNOLOGY GRADE

TECHNOLOGY GRADE

Additional equipment over standard RX 450h model:

- 19" alloy wheels
 - 235/55 R19 tyres
- 15-speaker Mark Levinson® Premium Surround system
 - 7.1 surround system
 - DVD video playback facility
 - Hard Disk Drive (HDD) sound library with Gracenote® database
 - in-dash, single-slot 6-CD/DVD autochanger
- Active stabilisers*

Automatic air-recirculation control

Card key

Head-Up Display (HUD)

Navigation package

- 8" colour LCD multi-display
- Hard Disk Drive (HDD) navigation system with Dynamic Route Guidance (DRG)**
- multiple display screens to control/monitor vehicle systems, e.g. audio/climate/on-board computer
- parking assist monitor
- Remote Touch system

Parking assist sensors, front and rear

Tailgate, electrically operated

* Please consult your local Lexus Authorised Retailer for information regarding the specification status of this equipment item in your country.

** Dynamic Route Guidance (DRG) is not available in all countries.



- A. Mark Levinson® Premium Surround
- B. DVD video playback
- C. Active stabiliser*
- D. Card key
- E. Head-Up Display (HUD)
- F. Electric tailgate operation

RX 450h LUXURY GRADE

LUXURY GRADE

Additional equipment over standard RX 450h model:

- 19" alloy wheels
 - 235/55 R19 tyres
- 15-speaker Mark Levinson® Premium Surround system
 - 7.1 surround system
 - DVD video playback facility
 - Hard Disk Drive (HDD) sound library with Gracenote® database
 - in-dash, single-slot 6-CD/DVD autochanger

Air suspension*

Automatic air-recirculation control

Card key

Front seats, enhanced specification

- 10-way adjustment, driver and passenger
- memory (3 pre-sets), driver and passenger
- seat heating and ventilation

Light Emitting Diode (LED) scuff plate illumination

Navigation package

- 8" colour LCD multi-display
- Hard Disk Drive (HDD) navigation system with Dynamic Route Guidance (DRG)**
- multiple display screens to control/monitor vehicle systems, e.g. audio/climate/on-board computer
- parking assist monitor
- Remote Touch system

Parking assist sensors, front and rear

Perforated leather (semi-aniline) upholstery

Side monitor

Tailgate, electrically operated

* Please consult your local Lexus Authorised Retailer for information regarding the specification status of this equipment item in your country.

** Dynamic Route Guidance (DRG) is not available in all countries.



- A. Enhanced front seat adjustment
- B. Seat heating and ventilation
- C. Illuminated scuff plate
- D. Perforated, semi-aniline leather
- E. Side monitor

RX 450h PREMIER GRADE

PREMIER GRADE

Additional equipment over standard RX 450h model:

- 19" alloy wheels
 - 235/55 R19 tyres
- 15-speaker Mark Levinson® Premium Surround system
 - 7.1 surround system
 - DVD video playback facility
 - Hard Disk Drive (HDD) sound library with Gracenote® database
 - in-dash, single-slot 6-CD/DVD autochanger

Adaptive Cruise Control (ACC)*

Air suspension or active stabilisers*

Automatic air-recirculation control

Card key

Front seats, enhanced specification

- 10-way adjustment, driver and passenger
- memory (3 pre-sets), driver and passenger
- seat heating and ventilation

Head-Up Display (HUD)

Light Emitting Diode (LED) low-beam headlights

Light Emitting Diode (LED) scuff plate illumination

Navigation package

- 8" colour LCD multi-display
- Hard Disk Drive (HDD) navigation system with Dynamic Route Guidance (DRG)**
- multiple display screens to control/monitor vehicle systems, e.g. audio/climate/on-board computer
- parking assist monitor
- Remote Touch system

Parking assist sensors, front and rear

Perforated leather (semi-aniline) upholstery

Pre-Crash Safety System (PCS)*

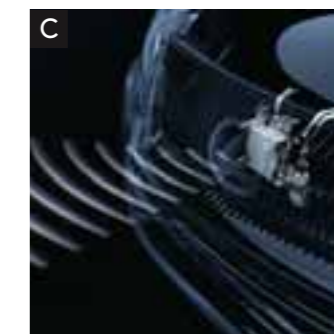
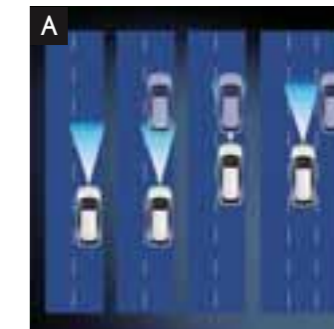
Side monitor

Sunroof, electric tilt and slide

Tailgate, electrically operated

* Please consult your local Lexus Authorised Retailer for information regarding the specification status of this equipment item in your country.

** Dynamic Route Guidance (DRG) is not available in all countries.



- A. Adaptive Cruise Control*
- B. LED low-beam headlights
- C. Pre-Crash Safety System*
- D. Sunroof

RX 450h

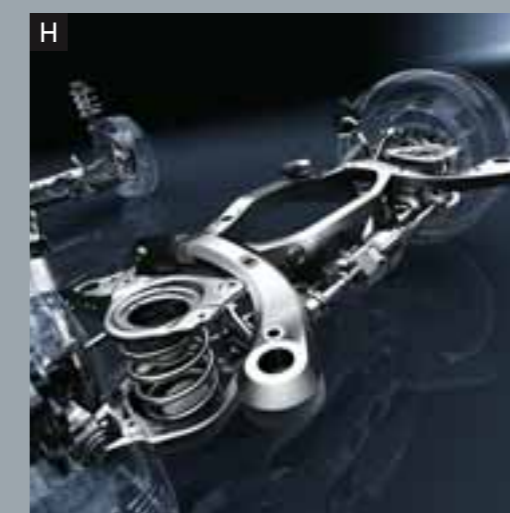
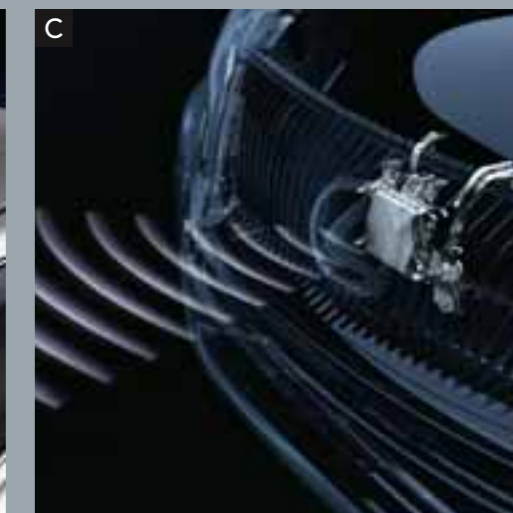
OPTIONS AND PACKAGES

RX 450h SINGLE OPTIONS	RX 450h	RX 450h Executive	RX 450h Technology	RX 450h Luxury	RX 450h Premier
Active stabilisers ^H	-	-	s	-	s/o
DAB (Digital Audio Broadcasting) upgrade module	a	a	a	a	a
Leather and wood trimmed steering wheel and wood trimmed gearshift lever ^A	-	-	-	o	o
Light Emitting Diode (LED) low-beam headlights ^I	-	o	o	o	s
Panoramic roof ^B	-	-	-	-	o
Pre-Crash Safety System (PCS) with Adaptive Cruise Control (ACC) ^C	o	o	o	o	s
Rear seat entertainment system ^D	-	-	o	o	o
Rear-view mirror with integral 2.4" rear-view monitor ^E	o	-	-	-	-
Sunroof, electric tilt and slide ^F	-	o	o	o	s
Tailgate, electrically operated ^G	-	o	s	s	s
Wood inlays for doors and centre console	-	o	o	o	o

RX 450h PACKAGES	RX 450h	RX 450h Executive	RX 450h Technology	RX 450h Luxury	RX 450h Premier
Interior upgrade package	-	-	o	s	s
Navigation package	o	s	s	s	s

Please note: not all options and packages are available in all countries. Certain options and packages may 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.

- = not available a = available to order as an accessory o = available to order as a cost option / package s = standard



NAVIGATION PACKAGE

This sophisticated equipment package features a highly advanced Hard Disk Drive (HDD) navigation system, which can be intuitively operated by Remote Touch. The 8" colour LCD multi-display has remarkable clarity and displays navigational information in a variety of formats.

The full specification is detailed below:

- Navigation system
- 8" colour LCD multi-display
 - Hard Disk Drive (HDD) navigation system with Dynamic Route Guidance (DRG)*
 - multiple display screens to control/monitor vehicle systems, e.g. audio/climate/on-board computer
 - parking assist monitor
 - Remote Touch system

12-speaker, upgraded premium audio system
Automatic air-recirculation control

* Dynamic Route Guidance (DRG) is not available in all countries.



- A. Upgraded audio
- B. 8" colour LCD multi-display
- C. Pan-European navigation
- D. Climate control settings
- E. Parking assist monitor
- F. Remote Touch system

INTERIOR UPGRADE PACKAGE

The new RX 450h is specified with high quality leather upholstery as standard. But, if you prefer, you can opt for soft, perforated semi-aniline leather as part of our interior upgrade package.

The perforations enable the seat ventilation, which is additionally specified with this package, to perform more effectively. Other front seat enhancements include thigh support adjustment for both driver and passenger and memory settings additionally for the passenger.

The full specification is detailed below:

- Front seats, enhanced specification
- 10-way adjustment, driver and passenger
 - memory (3 pre-sets), driver and passenger
 - seat heating and ventilation
- Light Emitting Diode (LED) scuff plate illumination
Perforated leather (semi-aniline) upholstery
Side monitor



- A. 10-way adjustment
- B. Memory function (3 passenger pre-sets)
- C. Seat heating and ventilation
- D. Illuminated scuff plate
- E. Perforated, semi-aniline leather
- F. Camera for side monitor

RX 450h ACCESSORIES

Genuine Lexus accessories add those extra touches of style, practicality and technical innovation that encapsulate the RX 450h automotive sophistication. Each accessory has been conceived not only for its function, but also for its form and intrinsic value to a chosen way of life.

FRONT UNDER RUN ^A

Extra protection against stone chips for the under engine compartment. Finished in matt black and brushed aluminium.

REAR UNDER RUN ^B

Purpose designed to shield the RX 450h rear underside and bumper. Presented with a brushed aluminium finish.

DETACHABLE TOWING HITCH ^C

The removable towing arm makes this the perfect system for an occasional towing need. It has a towing capacity of up to 2000 kg and is supplied with a dedicated wiring kit.

ROOF RACK + SKI BOX ^D

The lockable lightweight aluminium roof rack is easy to install and use. It combines with a wide range of specialised optional attachments to create flexibility for exploring life's leisure potential such as the ski box (as shown on the image), the luggage box, ski holders, bike holders...

TRUNK MAT ^E

Hard wearing textile mat offering dependable protection for carpets against the rigours of daily use.

DOG GUARD ^F

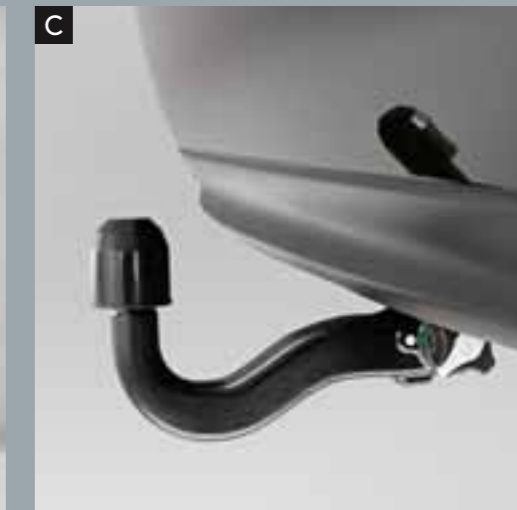
Clipping neatly into place, the floor to ceiling dog guard creates a private travelling space while preventing access to the passenger area.

HOMELINK ^G

HomeLink[®] will operate up to three home automation systems from a control unit permanently mounted within the RX 450h. For instance, it can be programmed to activate security lighting and open or shut drive gates and garage doors. Available in a choice of colours co-ordinated to the RX 450h interior.

CHILD SEAT RANGE ^H

The Lexus child restraint seat range consists of the Babysafe Plus restraint seat (to 13 kg), the Duo Plus Isofix restraint seat (approximately 9 to 18 kg) and the Kid restraint seat (approximately 15 to 36 kg). They are purpose designed to provide travel comfort and security for children up to 12 years.



RX 450h

INTERIOR COLOURS

LEATHER

- A. Black
- B. Ivory
- C. Light Grey

SEMI-ANILINE LEATHER

- D. Black
- E. Ivory
- F. Light Grey

INLAYS

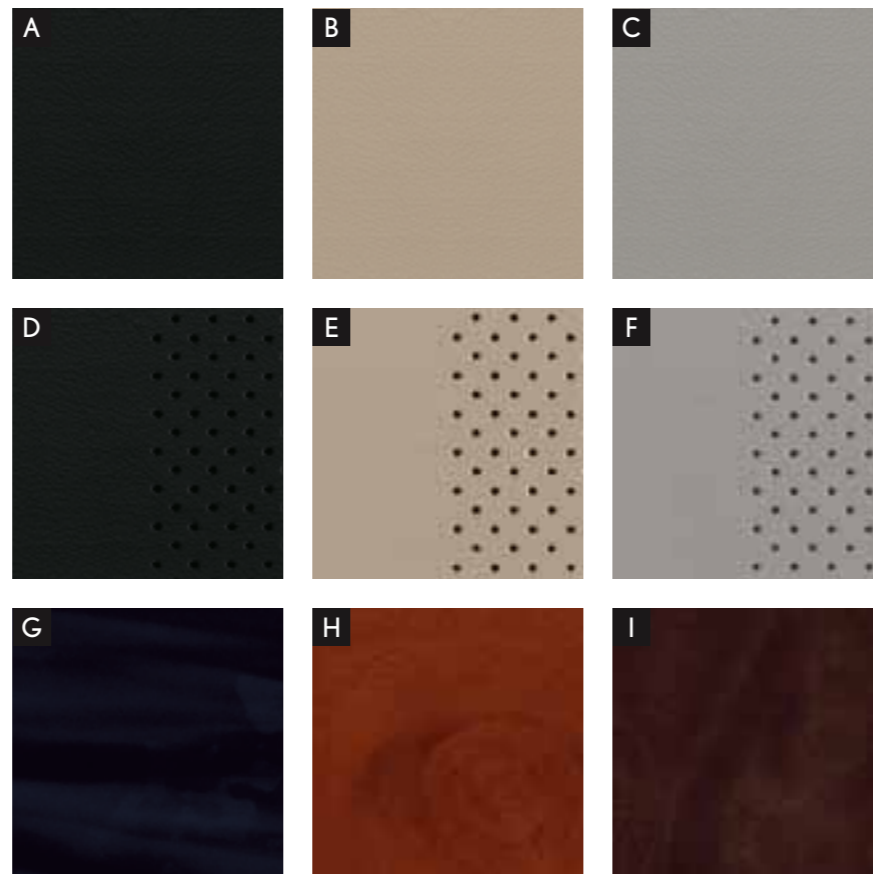
- G. Dark grey gloss
- H. Medium brown walnut wood
- I. Dark brown walnut wood

INTERIOR ILLUSTRATIONS

- J. Black
- K. Ivory
- L. Light Grey and black

Please note: all new RX 450h models are specified with leather upholstery and dark grey gloss inlays as standard. Semi-aniline leather is supplied as standard on Luxury and Premier grade models and can be specified as an interior upgrade on the RX 450h Technology grade.

The interiors illustrated on the page opposite (J, K, L) are of the new RX 450h Premier grade with optional wood inlays. Medium brown walnut is supplied with Black and Ivory, while dark brown walnut complements Light Grey. Images are intended to illustrate interior colour combinations only.



RX 450h

EXTERIOR COLOURS

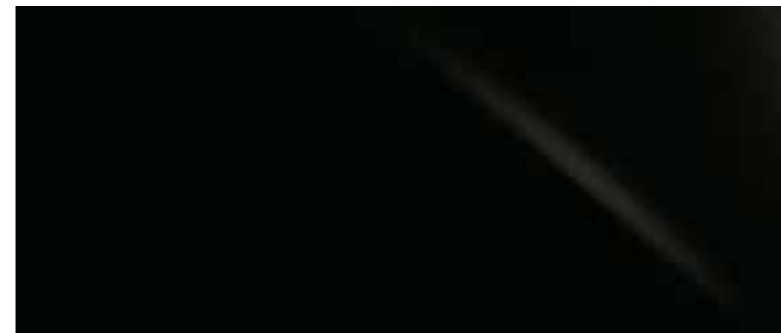
QUARTZ WHITE (078 CS)



HAKUREN SILVER (1G1 MM)



STARLIGHT BLACK (217 GF)



MORELLO RED (3R1 CS)



SILVERY BLUE (8U9 ME)



DARK GRANITE (1G0 MC)



SAND ECRU (4U7 ME)



DARK OPAL (214 MC)



WHITE PEARL (077 CS)



BLACK (212 S)*



* Solid colour

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

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.

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.

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





EXPERIENCE THE NEW RX

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 RX 450h.

© 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.

Reprinted in Europe, December 2010