

## **THE LEXUS RX**

The Lexus RX has proved hugely popular since its 1998 launch with people who want the flexibility of an SUV with the comfort of a premium-quality saloon, all contained in an attractive and stylish package. The new RX sustains this successful formula while making a leap forward in design. Its mixture of sharp creases and curves links it to the contemporary styling displayed by other recently launched Lexus models.

The fourth generation luxury crossover benefits from a re-engineered hybrid powertrain and a new petrol turbo engine. It also offers sophisticated safety and driver assistance technologies and new convenience features and comes equipped as standard with Lexus Safety System+. All these innovations and more add extra appeal to the RX, historically Lexus's best-selling model worldwide.

### **EXTERIOR AND INTERIOR DESIGN**

#### **Elegant and modern exterior**

Lexus's mission was to create a stronger and more athletic body style and improve cabin ergonomics, while preserving the RX's established luxurious character. The external creases and curves capture the design language that's evident in the sheet metal treatment of other Lexus models, such as the IS, NX and RC.

#### **A powerful visual statement**

The front end of the RX is characterised by a powerful interpretation of Lexus's signature spindle grille, contained in a chrome-finished frame and flanked by LED headlights – in a triple 'L' formation with LED front fog light/cornering light clusters on Premier grade models.

The spindle shape of the grille is referenced in the rear end design, too, giving the vehicle a balanced, coherent look. The rear L-shaped LED light clusters extend forward from the tailgate into the rear wings, emphasising the broad width of the vehicle and giving a wide spread of illumination. The rear pillars have a blacked-out gloss finish to create a floating roof effect, the first time this kind of feature has been seen on a Lexus.

Neat details include flush-fitted headlamp washers and illumination and smart entry functions incorporated in the exterior door handles.

## **Dimensions**

Lexus's designers have kept the dimensions of the new RX relatively close to those of the previous model, the most notable change being a 120mm increase in the car's overall length to 4,890mm. An extension of the wheelbase to 2,790mm accounts for 50mm of this growth, allowing extra legroom to be added without reducing boot space. Although overall height is the same at 1,685mm, ground clearance has been increased by 10mm. Overall vehicle width is greater by 10mm at 1,895mm.

The sharply tapering front and rear wing flares add muscle to the RX's appearance, while the main body section displays a diamond shape that flows out from the front spindle grille and back to the tailgate. The sculpted belt line has a three-dimensional look in its course along the side of the vehicle, running from just above the tail-lights, through the side doors and gently bisecting the space between the headlights and grille.

## **Improved aerodynamics**

A number of aerodynamic elements have been incorporated into the RX's bodywork, which help improve the drag coefficient to 0.33 while also contributing to vehicle stability and low cabin noise levels.

They include: -

- A front under spoiler which directs airflow to the underbody, reduces aerodynamic drag and supports driving stability
- Fin-shaped corner sections beneath the headlights which improve airflow along the sides of the vehicle
- Redesigned front pillars which create less wind noise during high-speed driving
- Aero-stabilising fins on the tail-light covers, which wrap into the rear wings to give extra aerodynamic stability at the rear of the vehicle
- A rear spoiler across the width of the roof/tailgate window, which reduces lift and adds rear downforce
- A diffuser beneath the rear bumper, which smoothly draws airflow from beneath the vehicle, reducing drag and giving extra stability

## **Wheel designs**

Four alloy wheel designs feature across the new RX range. The SE model uses seven-spoke 18-inch wheels; the Luxury models are fitted with 20-inch 10-spoke rims with machined-finish

surfaces; the 20-inch F Sport wheels have a multi-spoke design; and the 20-inch design for the Premier models features five thick spokes with coloured inserts that can be specified in Velvet Black, Copper Brown and Sonic White, according to customer preference.

### **Interior design**

The cabin design strikes a balance between functionality and luxury, finished with refined materials that exude quality construction and craftsmanship. The ambience is both spacious yet intimate, with high levels of comfort for driver and passengers.

The RX's seats have been designed to deliver both support and comfort with a new ergonomic design and quality detailing that includes a vertical stitching pattern that is both good looking and durable. The quilting pattern on the front seat seatbacks matches that on the door panel trims.

A range of upholsteries, colours and trims are available, with smooth leather is provided on SE and Luxury versions, in Black, Topaz Tan, Noble Brown and Ivory. According to upholstery choice, the headlining is in grey or ivory, while trim inlays are finished in black. The F Sport models feature perforated leather in White, Black or Dark Rose, matched with aluminium trim inlays. Semi-aniline leather is used in Premier grade models, in Ivory with Noble Brown, black, Topaz Tan with Noble Brown, or Rich Cream with Noble Brown. The quality effect is heightened with aluminium and dark wood inlays with laser-etched detailing. A technique carried out by Yamaha craftsman who also work on concert-quality pianos and guitars, this reveals a sub-layer of aluminium to create fine patterning

The driver and front passenger seats are low-set, allowing for excellent headroom. The position of the steering wheel closer to the driver and a lowered angle for the steering column create a more involving driving position.

Lexus has paid special attention to the comfort of rear seat passengers, and by lowering the rear floor section has produced a seating position with plenty of head and legroom, helped by the increase in the car's wheelbase. The three rear seats have a generous angle of recline and cushion slide adjustment (in a 60:40 split configuration). The seats are easy to fold when more load space is required, using levers by the side of the seats or in the luggage area.

The cargo space can be increased to provide enough room for four large suitcases or multiple golf bags. A space saver spare wheel and jack are provided as standard, stored in an area beneath the boot floor.

The RX offers the convenience of a smart power tailgate (standard on Luxury grade and above). If you are carrying bags or luggage, there's no need to fumble for your key fob or reach for the tailgate release button to open up the boot. Instead, you can just place your hand over the Lexus emblem on the tailgate to operate the mechanism – you don't even have to touch it.

A sensor recognises the key fob in your pocket or bag and your presence at the rear of the vehicle to open the tailgate. The system will work even if you are wearing gloves, and with an elbow motion if both your hands are full.

### **Centre Console**

The centre console is precisely designed to provide easy access to storage areas, cupholders and switchgear. The audio and climate control sections are separate and clearly defined, making them easy to use. The audio system has machined aluminium knobs that look stylish and feel good to the touch.

There is a side console pocket that's designed to hold tablets or other small computer devices and, on Luxury, F Sport and Premier models, a wireless phone charger in the centre console allows compatible smartphones to be charged without using a cable. There is also a space beneath the Remote Touch control's palm rest which is just the right size to hold a small iPod or other device, with easy connection to the USB port or audio jack point in the centre console.

A smart and simple system adapts the depth of the cupholder in the console according to whether you are using a cup or can, or a taller drinks bottle. The base of the unit is fitted with a sliding height adjustment mechanism: simply press down with your bottle to gain the maximum depth, or press the release button to bring the base up to the level appropriate for a cup or can. The adjustment range is 70 to 110mm.

The attention to detail extends to changes to the design of the centrally mounted analogue clock to make it clearer to read for both driver and passengers.

### **Head-up display and 12.3-inch monitor**

The instrument panel can incorporate a colour head-up display (standard on Premier grade) which projects key information and data onto the base of the windscreen in the driver's eyeline. The range of data includes adaptive cruise control status, speed limits and Pre-Collision System warnings.

Models equipped with Lexus Premium Navigation benefit from a central 12.3-inch dashboard monitor (an eight-inch monitor is featured the SE version), designed for ease of use and high visibility, whether scrolling through function menu screens, using maps or accessing the RX's multimedia and audio systems.

### **Instrument Cluster**

The instrument cluster presents large, easy to read gauges, with a multi-information display positioned between the energy display gauge and the speedometer. The ambient illumination changes according to the drive mode selected – blue for Eco and Normal and red for Sport S and Sport S+.

### **All-round visibility**

The RX provides a wide field of vision through the windscreen and over the bonnet, which improves safety and also helps the driver gain a better sense of the vehicle's width when manoeuvring into parking spaces. Better visibility is obtained thanks to the slightly rearward positioning of the door mirrors, reducing the blind spot. The slender front pillars give a cleaner, more minimalist appearance as well as intruding less into the driver's view.

The rear pillars are also slim, resulting in better rearward visibility and reducing the rear three-quarter blind spot. The view back from the steering wheel has been improved by relocating the rear seatbelt feeder openings and giving the rear door trims a concave cross section.

### **RX F Sport**

The RX F Sport takes the model's sporty qualities to a new level. In the cabin the instrumentation features an eight-inch LCD with a large circular gauge that presents both a tachometer and a digital speed indicator.

There are F Sport seats upholstered in perforated leather, with a quilting pattern specific to the grade. The shift lever and three-spoke steering wheel are wrapped in the same leather, accompanied by cool and tactile aluminium-finish trim accents. White and Dark Rose leather options are unique to F Sport models. The sporty features extend to drilled, non-slip aluminium accelerator and brake pedals and footrest.

On the outside the F Sport models display their special character in a back-finished mesh grille, lower spoiler, satin chrome under-run and black door mirrors. The lower rear bumper

section also has a satin chrome finish. The multi-spoke 20-inch wheels (see above) are fitted with 235/55 tyres. Among the exterior colour options, F Sport White is exclusive to the grade.

### **LEXUS SELF-CHARGING HYBRID POWERTRAIN**

The RX 450h's self-charging full hybrid system features a 3.5-litre direct injection V6 petrol engine, with maximum output of 259bhp/193 kW at 6,000 rpm with 335Nm of torque at 4,600rpm. The total output of the hybrid powertrain (engine and electric motors combined) amounts to 308bhp/230 kW.

The engine's combustion chamber design generates a high degree of tumble inside the cylinders, improving combustion performance. Combined cycle fuel economy is 47.9mpg for the SE model and 48.7mpg for other grades; respective CO<sub>2</sub> emissions levels are 132 and 134g/km (fuel and emissions figures are NEDC correlated WLTP data).

The RX has a sound generator system that creates a performance-style intake sound. It uses air intake pulses to raise the sound pressure level across three resonance frequencies to heighten the sense of performance.

The transmission features a hybrid front transaxle with a water-cooled transmission oil cooler. There is also a pre-loaded differential that supports better performance and straight line stability.

### **E-Four all-wheel drive system**

The RX 450h features the sophisticated Lexus proactive E-Four all-wheel drive system, which uses an additional electric motor on the rear axle. It enables energy and fuel use to be reduced by limiting AWD operation to only when necessary and allowing the rear-mounted electric motor to act as a generator to charge the battery when the vehicle is in regenerative brake mode.

The system has a reduction drive, a three-shaft configuration and a weight-saving aluminium case and cover. Its control functions are tuned to give better response when accelerating through bends.

Torque distribution levels front and rear and to each individual wheel can be shown on the driver's multi-information display when the system is operating

## **CHASSIS AND DRIVING DYNAMICS**

The RX's platform is engineered for engaging handling performance and driver feedback.

### **Steering**

The electric power steering is calibrated to provide a communicative road feel to the driver. The rigidity of the intermediate shaft and instrument panel also contribute to good steering feel, with refinement details such as a slowing of steering wheel movement as it returns to centre adding to the overall controllability, smoothness and responsiveness. The steering wheel is set at an angle that makes it easy for the driver to maintain the desired turning angle when driving deep into a bend.

The driver can take advantage of extended rake and reach adjustment to find the ideal wheel position, while the low steering column angle helps provide a sporty driving position.

### **Suspension and brakes**

The RX's suspension system (front MacPherson struts, rear trailing arms/double wishbones) is designed to provide extra stability through corners and excellent handling overall.

A large-diameter anti-roll bar provides good roll rigidity, giving the RX crisp turn-in response. This allows for a reduction in coil spring rates, ensuring a high level of overall ride quality. The design of the hub bearings, anti-roll bar bushings and other system details add stability and feel to the front of the vehicle. The spring rates and bushing rigidity of the rear suspension are calibrated to complement the sturdiness of the car's front end.

The powerful braking system uses front and rear ventilated discs to obtain exceptional stopping power and fade resistance. An electric parking brake is fitted as standard.

### **Adaptive Variable Suspension**

The adaptive variable suspension (AVS, standard on F Sport and Premier models) gives the RX some of the handling character of a saloon, together with excellent ride comfort and stability. It controls the damping force of the shock absorbers at each wheel in response to road surface conditions and driver inputs. For example, on a rough road, AVS instantly switches to a more compliant setting to maintain ride comfort; when cornering, the damping force firms up to help reduce body roll and allow more performance-oriented, flatter handling.

## **Drive Mode Select**

All versions of the RX are equipped with a Drive Mode Select system, which lets the driver choose between different settings – Eco, Normal, and Sport – to suit the driving conditions. Each setting regulates the suspension damping force, engine output, throttle response and other engine and chassis parameters.

The RX 450h SE and Luxury models feature Normal, Eco and Sport modes; F Sport and Premier models equipped with AVS additionally feature Sport S and Sport S+ modes.

Eco mode moderates throttle response and engine power output and adjusts climate control operation to support fuel economy.

Normal mode provides an even balance between engine performance and fuel economy. Together with Eco mode, it provides a suspension setting that prioritises comfort.

Sport mode ramps up performance with sharper throttle response and acceleration and adds weight to the steering.

Sport S sets an even higher performance level, with revised throttle mapping and quicker powertrain response. In the RX 450h, the hybrid system allows for enhanced accelerator response and a feeling of more powerful acceleration.

Sport S+ combines the powertrain enhancements of Sport S mode, while sharpening the feel of the electric power steering and initiating stiffer suspension for flatter cornering.

The driver can also make use of an EV mode which switches the vehicle to all-electric operation, shutting down the petrol engine until the limit of charge or speed is reached.

## **Rigid body structure**

The RX's platform benefits from a number of cutting-edge technologies that help achieve the best possible structural integrity and overall rigidity. Panel joints are strengthened using high-tech body adhesives and laser screw welding, and much use is made of high-tensile strength steel throughout the vehicle, including key areas such as the underbody cross members and the front and centre pillar sections. A ring-frame construction technique adds strength to the frame sections around the front and rear doors while areas around the rear body frame have numerous spot welds to give more strength and handling stability.

As well as contributing to handling quality and a quieter cabin, these design features also support safety by increasing the vehicle platform's structural rigidity.

### **Quieter cabin with reduced noise and vibration**

The RX's high-rigidity body/chassis structure features a number of design and engineering features that help deliver an even quieter cabin environment.

The details at the front of the vehicle include redirection of the wind flow around the door mirrors, which reduces wind noise. A urethane shielding plate inside the wings helps prevent engine noise from entering the cabin and a material applied to the front wheel arches cuts the amount of noise from the road and deflected debris – “gravel spatter”. There is also thick insulation under the bonnet and a cowl insulator with a large surface area.

The cabin section is fitted with acoustic glass, doors with generous sound insulation and strategically placed noise-absorbing and vibration-damping materials. Weather stripping and door seals are also designed for optimum performance.

The rear body frame is positioned within the rear pillar and body sections surrounding the tailgate. This greatly suppresses lateral vibrations generated from within the rear wheel arches. There is also foam inside the rear pillars to reduce wind noise.

## **SAFETY AND DRIVER ASSISTANCE**

### **Lexus Safety System+**

The RX is equipped with Lexus Safety System+, a multi-feature, integrated safety package that delivers exceptional levels of active safety and driver assistance to help prevent accidents happening.

At the heart of the Lexus Safety System+ is the **Pre-Collision System**. This uses a front-mounted camera and millimetre-wave radar to detect vehicles and pedestrians on the road ahead. If it calculates a risk of a collision, it automatically warns the driver and provides extra braking force the moment the brake pedal is pressed. If the driver fails to react and the system judges a collision to be imminent, the brakes are automatically applied to reduce vehicle speed and the force of any impact, and the seatbelts are tensioned.

The same radar unit is used to provide **Adaptive Cruise Control**, which helps the driver maintain a safe distance from the vehicle in front. Once the way ahead is clear, the RX automatically accelerates to its pre-set cruising speed.

Lane Keep Assist provides an extra layer of assistance, automatically providing steering inputs to keep the car safely within its lane, notably when the Adaptive Cruise Control is being used. In a first for a Lexus, the system can be used even at very low speed, when the Adaptive Cruise Control is operating. The driver can also choose which alert they prefer (warning sound or vibrating steering wheel) and the sensitivity of the warning, via the multi-information display. The system can also be switched off, if desired.

Lexus Safety System+ further includes **Automatic High Beam**, which detects oncoming traffic and vehicles ahead and automatically switches the headlights between high and low beam. Premier grade models feature the **Adaptive High-beam System**, which gives even better illumination by adjusting light distribution to avoid dazzling other road users, instead of switching the headlights to low beam.

The driver also gains a “second set of eyes” when it comes to important road signs on motorways and major routes. The **Traffic Sign Recognition** system uses a front camera to recognise principal warning and command signs, which are then replicated on the multi-information and head-up displays, reducing the risk of the driver not being aware of speed limits, lane closures and other important information.

### **Additional safety features**

The cameras used in the RX's Lane Keeping Assist also provide a **Sway Warning** function. This monitors the car's position in its lane and the driver's steering inputs. If it detects degrees of vehicle swaying, caused by driver distraction or drowsiness, it will sound an alert and display a warning on the multi-information display, recommending the driver takes a break.

### **Adaptive Variable Suspension (AVS) control**

When the Pre-Collision System determines that there is a high likelihood of a collision, the Adaptive Variable Suspension Control system instantaneously adjusts shock absorber damping within the suspension to enhance the vehicle's responsiveness as an additional driver aid (featured on Premier grade vehicles equipped with AVS).

## **Panoramic View Monitor**

Negotiating a tight parking space or making your way over rough and unmade surfaces are familiar driving challenges, and ones which can too often result in bumps, scrapes and frayed tempers. These kinds of tasks are made easier and safer in the Lexus RX Premier thanks to a 360-degree Panoramic View Monitor. This uses an array of cameras that not only give you an all-round view of your vehicle's location, but also provide a bird's eye view for even better sight of your immediate surroundings.

The Panoramic View Monitor works in conjunction with the Lexus Park Assist sensors and monitor, Blind Spot Monitor and Rear Cross Traffic Alert to make you aware of obstacles, hazards and other vehicles that may be hidden from view from the driver's seat, eliminating any blind spots. When steering the car into parallel or series parking spaces, the Parking Assist Monitor can add guidelines to the real-time camera images to help you steer precisely, while front and rear sensors will sound an alert as you move closer to another car or obstacle.

A Blind Spot Monitor uses rear-mounted radars to detect vehicles in adjacent lanes, or objects behind the RX when reversing. The same radars provide a Rear Cross Traffic Alert function, which warns the driver of traffic or people approaching from either side when reversing out of or into a parking space. It works in conjunction with a Blind Spot Monitor, using the same rear-mounted radar.

For the 2017 model year, Lexus upgraded the Rear Cross Traffic Alert and Intelligent Parking Sensors to include an automated braking function, providing an extra layer of safety protection when manoeuvring in and out of parking spaces. When the systems detect an obstacle in the vehicle's path, or sudden acceleration when manoeuvring, the brakes will be automatically applied to avoid an impact.

The Panoramic View Monitor, Blind Spot Monitor, Rear Cross Traffic Alert and Parking Assist Monitor are provided as standard equipment on the RX 450h Premier.

All models are fitted with four-channel ABS with brake assist and Electronic Brakeforce Distribution, Vehicle Stability Control+ with traction control, Tyre Pressure Warning System and Vehicle Dynamics Integrated Management. Driver assistance features include Hill-start Assist Control.

## **Passive safety**

All RX models are equipped with 10 airbags: dual-stage and dual-chamber driver and front passenger airbags, driver's knee airbag, front passenger cushion airbag, front and rear side airbags and curtain airbags.

## **Body structure**

The RX's body structure provides increased occupant protection thanks to a number of new design features. These include new frame components that deliver better front collision performance, and a high-strength body that suppresses cabin deformation. Side collision performance is improved with better impact energy absorption and dispersion, and the addition of a large rear bumper reinforcement helps disperse energy in the event of a collision towards the left and right rear side members. Reinforcements have been added to the roof section and the level of pedestrian impact protection has been raised with a new-design frontal structure that better absorbs energy, mitigating the severity of potential head and leg injuries.

## **AUDIO AND MULTIMEDIA SYSTEMS**

### **Pioneer nine-speaker audio**

The standard audio package for the new RX is a nine-speaker Pioneer system that includes DAB radio reception, single CD player and Bluetooth. Connectivity is provided by an AUX mini-jack and two USB ports, located in the centre console box.

### **Pioneer 12-speaker audio**

Pioneer's 12-speaker system, featured in Luxury and F Sport models, comes with a single DVD player and benefits from Coherent Source Transducer (CST) technology that gives extremely realistic and high-quality sound reproduction in the mid to high range and adds boost to low tones. The speaker array includes 20cm subwoofers and new 18cm woofers in the front doors.

### **Mark Levinson Premium Surround System**

Audiophiles will appreciate the 15-speaker Mark Levinson Premium Surround System with its advanced Clari-Fi compressed music restoration technology. This improves the frequency characteristics, dynamic range, low tone tension and detail reproduction of compressed audio sources, such as MP3 files. The Mark Levinson system, featured in the Premier grade specification and an option for F Sport models, also uses Green Edge technology in its ultra-high-efficiency speakers that deliver more than double the sound output of conventional units, while using just the same amount of power. The 7.1 Surround system also provides a DVD playback function.

### **Lexus Navigation System**

The RX 450h SE is equipped with the Lexus Navigation System, presented on an eight-inch TFT LCD display on the centre console. Operation is by means of a rotary Remote Touch controller. The screen can be set to display a single panel (full map), two-panel (half map, half information), or three-panel (half map, two info screens) view. The driver can set their own information preferences, including navigation, fuel consumption, audio details and air conditioning settings.

### **Lexus Premium Navigation System**

Higher grade versions of the RX benefit from Lexus Premium Navigation, accompanied by a 12.3-inch display and a Remote Touch touchpad control. It presents crisp graphics, with remarkable brightness, sharpness and contrast, even in direct sunlight, thanks to its Light Control Film surface treatment. The screen can be used full-screen, or divided into an eight-inch map display with a handy sub-screen to present controls for five frequently used functions.

## **UK RANGE AND SPECIFICATIONS**

### **Equipment highlights**

The entry point to the RX 450h line-up is the **SE** grade model. Highlights of the equipment specification include dual-zone climate control, rear privacy glass, eight-way power adjustable heated/ventilated front seats, Lexus Navigation with an eight-inch display screen, auto-dimming rear-view and door mirrors, smooth leather upholstery, a nine-speaker audio system with DAB, reversing camera, memory settings for the steering wheel, driver's seat and door mirrors, LED headlamps and dual chrome-tipped exhausts.

The RX 450h **Luxury** features all-wheel drive, leather upholstery, heated and ventilated front seats with memory settings, Lexus Premium Navigation with 12.3-inch display screen and DVD player, 20-inch alloy wheels, power tailgate with "no-touch" opening, "triple-L" LED headlights, wireless smartphone charger, and auto-dimming door mirrors with memory setting.

For added sports appeal and visual impact, the new RX is available as an **F Sport** model. The exterior styling is given extra emphasis with an even stronger treatment of the front spindle grille and the addition of F Sport-specific features, including dedicated front and rear bumpers, black door mirror housings and F Sport 20-inch alloys. The F Sport treatment continues in the cabin with F Sport front seats and steering wheel, perforated leather upholstery, drilled

aluminium pedals and a specific illumination design for the instrument panel and doors. As well as a sharper appearance, the F Sport models also benefit from dynamic ride, handling and control features, including Adaptive Variable Suspension, Lexus's Sport Vehicle Dynamics Integrated Management system and sports-tuned electric power steering. In other respects the F Sport models share the same impressive equipment list as the Luxury grade, plus low-speed cornering fog lights and sun shades on the rear doors.

**Premier** grade delivers a wealth of advanced technology and premium quality features. They include semi-aniline leather upholstery with 10-way power adjustable front seats. Both driver and front passenger seats have memory settings and multi-adjustable, power lumbar support for ultimate comfort. A colour head-up display, 15-speaker Mark Levinson surround audio system, 360-degree view monitor and a heated steering wheel are also provided and illuminated scuff plates add extra quality detailing. Customers can select their preference of a sunroof or (opening) panoramic roof. In common with the F Sport, the RX 450h Premier is fitted with Adaptive Variable Suspension and low-speed cornering lights.

#### **Premier Pack option**

For the 2017 model year, Lexus introduced a new Premium Pack, giving owners of the RX F Sport the opportunity to raise the specification of the vehicle to a near match for the Premier grade model. The pack provides an impressive array of comfort, safety and convenience items, including Mark Levinson audio, head-up display, 360-degree camera, a card key and heated steering wheel. It also offers customers the choice of a panoramic roof or sunroof.

#### **LEXUS RX TIMELINE AND UK SALES**

<b>YEAR</b>	<b>MONTH</b>	<b>EVENT</b>
1999		The first generation RX 300 is launched in North America and quickly becomes the best-selling model in its class.
2000	October	RX 300 goes on sale in the UK.
2003	January	New RX 300 revealed at the Detroit motor show. Lexus also announces it will build a hybrid version of its luxury SUV.
	May	New generation RX goes on sale in the UK.
2004	May	The full hybrid RX 400h makes its UK debut at the British motor show.
2005	June	UK sales of the RX 400h begin.

2006	April	Power is increased with the introduction of the RX 350, fitted with a new 3.5-litre V6 petrol engine. RX 300 is discontinued.
2007	January	The RX 350 Limited Edition is launched.
	August	Introduction of the RX 400h SR
2008	November	Third-generation RX, the RX 450h, is unveiled at the Los Angeles motor show.
2009	June	The RX is the top-ranked model in the 2009 J.D. Power and Associates UK customer satisfaction survey.
	July	The RX 450h is launched in the UK, and the RX 350 and 400h are discontinued.
2010	June	The RX is the top-ranked model in the 2010 J.D. Power and Associates UK customer satisfaction survey.
2011	January	The <a href="#">RX SE-I Lifestyle</a> is introduced, with additional features designed for winter weather driving.
	October	The Advance grade is added to the RX line-up.
2012	May	<a href="#">Revised RX range</a> introduced with new F Sport grade and revised styling, including new spindle-shaped front grille
2013	November	Introduction of the <a href="#">RX 450h Advance</a>
2014	August	A new-specification <a href="#">Advance</a> model is introduced to the range.
2015	September	<a href="#">UK prices and specifications</a> are announced for the all-new RX. The range includes both full hybrid RX 450h and turbocharged petrol-powered RX 200t.
	December	The RX achieves the highest score yet for a large SUV in <a href="#">Euro NCAP safety testing</a> .
2016	January	First RX deliveries to UK customers.
2017	September	RX 200t is deleted from the range
2018	May	Addition of the RX Sport model to the UK range. The seven-seat RX L is introduced.

RX UK sales in 2017: 2,351

Cumulative RX UK sales since launch (2000, all versions): 47,983

## LEXUS RX TECHNICAL SPECIFICATIONS

ENGINE	
Engine code	2GR-FXS
Engine type	V6
Valve mechanism	24-valve DOHC, VVT-iW

Displacement (cc)	3,456
Bore x stroke (mm)	94.0 x 83.0
Compression ratio	13.0:1
<b>Full system power – petrol engine &amp; electric motor (bhp/kW)</b>	<b>308/230</b>
Max. engine power (bhp/kW @ rpm)	259/193 @ 6,000
Max. engine torque (Nm @ rpm)	335 @ 4,600
Emissions certification	Euro 6
<b>HYBRID SYSTEM – RX 450h</b>	
<b>Electric motor (front)</b>	
Type	AC permanent magnet, synchronous motor
Max. power (bhp/kW)	165/123
Max. torque (Nm)	335
<b>Electric motor (rear)</b>	
Type	AC permanent magnet, synchronous motor
Max. power (bhp/kW)	68/50
Max. torque (Nm)	139
<b>Hybrid battery</b>	
Type	Nickel metal-hydride
Nominal voltage	288
Number of cells	240
System voltage	650
<b>PERFORMANCE</b>	
0-62mph (sec)	7.7
Max. speed (mph)	124
<b>DIMENSIONS</b>	
Overall length (mm)	4,890
Overall width – without mirrors (mm)	1,895
Overall height (mm)	1,685
Wheelbase (mm)	2,790
Track front (mm)	1,640
Track rear (mm)	1,650
Overhang front (mm)	1,080
Overhang rear (mm)	1,020
Coefficient of Drag (Cd)	0.33

Fuel tank capacity (litres)		65
<b>INTERIOR DIMENSIONS</b>		
Interior length (mm)		1,360
Interior width (mm)		1,474
Interior height (mm)		1,050 1,019 (with panoramic roof)
Luggage capacity (VDA, litres)	Rear seats up	453
	Rear seats folded	924
<b>WEIGHTS (kg)</b>		
Kerb weight (kg)	SE	2,100 – 2,155
	Other grades	2,100 – 2,210
Gross vehicle weight (kg)		2,715
Towing capacity – braked (kg)	SE	n/a
	Other grades	2,000
Towing capacity – unbraked (kg)	SE	n/a
	Other grades	750
<b>TRANSMISSION</b>		<b>E-CVT</b>
Gear ratios	Forward	3.137
	Reverse	n/a
Differential Gear Ratio (front/rear)		3.137/6.859
<b>FUEL CONSUMPTION*</b>		
Combined (mpg)	18in wheel	48.7
	20in wheel	47.9
Urban (mpg)	18in wheel	49.6
	20in wheel	47.1
Extra urban (mpg)	18in wheel	47.9
	20in wheel	48.7
<b>EMISSIONS*, INSURANCE &amp; SERVICING</b>		
CO <sub>2</sub> (g/km)	18in wheel	132
	20in wheel	134
Insurance groups	SE	41E
	Luxury	41E
	F Sport	41E
	Premier	42E
Service intervals		10,000 miles/annually
<b>SUSPENSION</b>		
Front		MacPherson strut
Rear		Double wishbones
<b>BRAKES</b>		
Front (diameter x thickness, mm)		Ventilated discs 328 x 34

Rear (diameter x thickness, mm)	Ventilated discs 338 x 18	
Parking brake	Electric	
<b>STEERING</b>		
Type	Rack and pinion, electric power steering	
Ratio	14.7:1	
Turns (lock to lock)	2.7	
Min. turning radius (m)	Tyre	5.8
	Body	6.9
<b>TYRES &amp; WHEELS</b>		
Wheel & tyre size	Other grades	18in 8J, 235/65R18 106V
		20in 8J, 235/55R20 102V

\*

Fuel and emission figures are NEDC correlated WLTP data.

### LEXUS RX EQUIPMENT SPECIFICATIONS

SAFETY & DRIVER ASSISTANCE	SE	LUXURY	F SPORT	PREMIER
Driver & front passenger airbags	✓	✓	✓	✓
Driver & front passenger side airbags	✓	✓	✓	✓
Driver's knee airbag	✓	✓	✓	✓
Front passenger cushion airbag	✓	✓	✓	✓
Rear passenger side airbags	✓	✓	✓	✓
Curtain Shield airbags	✓	✓	✓	✓
Front passenger airbag cut-off switch	✓	✓	✓	✓
Lexus Safety System + with Pre-Collision System, Adaptive Cruise Control, Lane Departure Warning & Lane Keep Assist, Traffic Sign Recognition & Automatic High Beam	✓	✓	✓	✓*
Sway Warning alert	✓	✓	✓	✓
Child proof locks on rear doors	✓	✓	✓	✓
ABS	✓	✓	✓	✓
Electronic Brakeforce Distribution (EBD) with Brake Assist System (BAS)	✓	✓	✓	✓
Vehicle Stability Control (VSC+)	✓	✓	✓	✓
Traction Control (TRC)	✓	✓	✓	✓
Vehicle Dynamics Integrated Management	✓	✓	✓	✓
Hill-start Assist Control (HAC)	✓	✓	✓	✓

Blind Spot Monitor with Rear Cross Traffic Alert and Panoramic View Monitor	x	x	Opt**	✓
Tyre Pressure Monitoring System	✓	✓	✓	✓
Electronic front seatbelt pretensioners with force limiters	✓	✓	✓	✓
Five three-point seatbelts	✓	✓	✓	✓
High mounted rear stop light	✓	✓	✓	✓
Emergency brake signal	✓	✓	✓	✓
Seatbelt warning system	✓	✓	✓	✓
ISOFIX child seat anchor points on outer rear seats	✓	✓	✓	✓
Adaptive Variable Suspension	x	x	✓	✓
<b>INSTRUMENTS &amp; CONTROLS</b>	<b>SE</b>	<b>LUXURY</b>	<b>F SPORT</b>	<b>PREMIER</b>
Drive Mode Select – 4 modes	✓	✓	x	x
Drive Mode Select – 5 modes	x	x	✓	✓
Speed-sensitive electric power steering	✓	✓	✓	✓
Colour head-up display	x	x	Opt**	✓
Smartphone wireless charger	x	✓	✓	✓
<b>AUDIO, NAVIGATION &amp; INFORMATION</b>	<b>SE</b>	<b>LUXURY</b>	<b>F SPORT</b>	<b>PREMIER</b>
8in Lexus Media Display with 9-speaker audio, CD player, DAB, DAB+, remote dial control and parking monitor	✓	x	x	x
Lexus Navigation with remote dial control	✓	x	x	x
Lexus Premium Navigation with 12-speaker audio, DAB, DAB+, DVD player, Connected Services, Remote Touch touchpad and parking monitor	x	✓	✓	x
Lexus Premium Navigation with 15-speaker Mark Levinson surround sound system, DAB, DAB+, DVD player, Connected Services, Remote Touch Interface and 360° Panoramic View Monitor	x	x	Opt**	✓
USB x2 and Aux socket	✓	✓	✓	✓
Bluetooth	✓	✓	✓	✓
<b>COMFORT &amp; CONVENIENCE</b>	<b>SE</b>	<b>LUXURY</b>	<b>F SPORT</b>	<b>PREMIER</b>
Dual-zone climate control	✓	✓	✓	✓

Automatic air recirculation	✓	✓	✓	✓
Power steering wheel reach and rake adjustment	✓	✓	✓	✓
Power windows	✓	✓	✓	✓
Rain-sensing wipers	✓	✓	✓	✓
Smart Entry and Start	✓	✓	✓	✓
Parking Assist Monitor	x	✓	✓	✓
Front and rear parking sensors	✓	✓	✓	✓
Adjustable turn indicator flash sequence (3, 5, 7 or 11)	✓	✓	✓	✓
LED interior lighting	✓	✓	✓	✓
LED illuminated scuff plates and doors	x	x	x	✓
F Sport instrument panel and door illumination	x	x	✓	x
Card key (in addition to standard key)	x	x	x	✓
Power tailgate with no-touch sensor	x	✓	✓	✓
Auto-dimming rear-view mirror	✓	✓	✓	✓
Leather-trimmed steering wheel with audio, phone, cruise control, multi-function controls and auto-away function	✓	✓	x	x
F Sport perforated leather-trimmed steering wheel with audio, phone, cruise control multi-function controls and auto-away function	x	x	✓	x
Wooden steering wheel with audio, phone, cruise control multi-function controls and auto-away function	x	x	x	✓
Integrated steering wheel heater	x	x	Opt**	✓
Rear door sunshades	x	x	✓	✓
Analogue clock	✓	✓	✓	✓
Analogue clock with GPS	x	x	x	✓
12v accessory socket x3	✓	✓	✓	✓
<b>SECURITY</b>	<b>SE</b>	<b>LUXURY</b>	<b>F SPORT</b>	<b>PREMIER</b>
Alarm with siren and two sensors	✓	✓	✓	✓
Two-motion double door locking	✓	✓	✓	✓
Speed-sensitive auto door locking	✓	✓	✓	✓
VIN etching	✓	✓	✓	✓
<b>SEATING, UPHOLSTERY &amp; TRIM</b>	<b>SE</b>	<b>LUXURY</b>	<b>F SPORT</b>	<b>PREMIER</b>

Cloth and Tahara upholstery	✓	✗	✗	✗
Smooth leather upholstery	✓	✓	✗	✗
Perforated leather upholstery	✗	✗	✓	✗
Semi-aniline leather upholstery	✗	✗	✗	✓
Heated and ventilated front seats (no ventilation on S grade)	✓	✓	✓	✓
8-way power front seat adjustment	✓	✓	✓	✗
10-way power front seat adjustment	✗	✗	✗	✓
Memory function for driver's seat, steering wheel & door mirrors	✗	✓	✓	✗
Memory function for driver and front passenger seats, steering wheel and door mirrors	✗	✗	✗	✓
Driver's seat with auto-away function for easy access/exit	✗	✓	✓	✓
60:40 split-folding/adjustable rear seats	✓	✓	✓	✓
Foldable centre rear seat section	✓	✓	✓	✓
Front and rear armrests with 2 cupholders and front storage	✓	✗	✗	✗
Front and rear armrests with 2 cupholders and front and rear storage	✗	✓	✓	✓
Gloss black trim inlays	✓	✓	✗	✓
Etched dark wood trim panels	✗	✗	✗	✓
Leather gear shift trim	✓	✓	✗	✓
F Sport perforated leather gear shift trim	✗	✗	✓	✗
Aluminium drilled sports pedals and foot rest	✗	✗	✓	✗
Aluminium-finish trim	✗	✗	✓	✗
Black headlining	✗	✗	✓	✗
Alloy scuff plates	✗	✗	✓	✓
<b>EXTERIOR</b>	<b>SE</b>	<b>LUXURY</b>	<b>F SPORT</b>	<b>PREMIER</b>
Auto-folding, heated door mirrors with integrated turn indicators	✓	✗	✗	✗
Auto-folding, auto-dimming, heated door mirrors with memory setting and integrated turn indicators	✗	✓	✓	✓
Black door mirror casings	✗	✗	✓	✗

Rear privacy glass	✓	✓	✓	✓
LED headlights with Automatic High Beam	✓	✓	✓	✗
LED headlights with Adaptive High-beam System	✗	✗	✗	✓
LED daytime running lights	✓	✓	✓	✓
LED front fog lights	✓	✓	✓	✓
LED low-speed cornering front fog lights	✗	✗	✓	✓
LED rear lights	✓	✓	✓	✓
Illuminated doorhandles with puddle lights	✓	✓	✓	✓
Front bumper with lower lip	✗	✗	✓	✗
Black mesh grille	✗	✗	✓	✗
Integrated roof rails	✗	✓	✓	✓
Sunroof	✗	✗	✗	✓
Opening panoramic roof	✗	Opt	Opt	Opt
18in 5-spoke alloy wheels	✓	✗	✗	✗
20in F Sport multi-spoke alloy wheels	✗	✗	✓	✗
20in 10-spoke alloy wheels	✗	✓	✗	✗
20in alloy wheels with optional colour inserts	✗	✗	✗	✓
Space saver temporary spare wheel	✓	✓	✓	✓

\* Adaptive High-beam System in place of Automatic High Beam. \*\* Option part of the Premium Pack.

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