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This press kit accompanied the European media launch of the Lexus LC coupe in August 2017. Changes to the model during its time on sale can be tracked using the Timeline feature on the LC archive web page. Further information can be obtained from the Lexus press office.

LEXUS LC EUROPEAN DYNAMIC PRESS LAUNCH

PRESS KIT

Lexus as a Global Luxury Lifestyle Brand

The launch of the Lexus LC luxury coupe has a wider significance than being an exciting and technologically advanced addition to Lexus' global model range. The visual impact of its emotional design and its exhilarating performance are manifestations of a radical shift in the Lexus brand that has been developing during the past few years.

In automotive terms, Lexus is still a young brand, just 28 years old, but even in that short time the perceptions of what luxury means have changed. Back in 1989 people would choose a prestige car as a status symbol. Today the concept of luxury has evolved into a mindset that values quality and exclusivity not just in things, but in experiences and social interactions.

One of the qualities that has distinguished Lexus ever since it entered the highly competitive luxury car market is its commitment to delivering highest standards of customer service. Its philosophy is based on *Omotenashi*, interpreting and developing the best traditions of Japanese hospitality in treating customers as you would guests in your home and anticipating their every need and preference. The result is an exceptional, personalised experience and an approach to business that has earned Lexus multiple awards for customer satisfaction worldwide.

Such is the solid foundation on which Lexus is now taking its work beyond automotive into new arenas where it can nurture and inspire innovation, creativity and craftsmanship. For example, in the world of international design it has been a leading contributor to Milan Design Week since 2005. It also hosts an annual competition for up-and-coming design talent and exhibits specially commissioned works at the Milan show that capture key themes from its own design philosophies.

Lexus is supporting film-makers, too. Working with leading international producers such as The Weinstein Company it provides a showcase for new talents in the Lexus Short Films series, established in 2013. It is also bringing its design vision to the big screen. Collaborating with the EuropaCorp studios and acclaimed director Luc Besson, Lexus has helped create a futuristic pursuit aircraft – the SKYJET – for the science fiction blockbuster *Valerian and the City of a Thousand Planets*.

A focus on imaginative technology has brought numerous world-first features and capabilities to Lexus cars. This drive for technical innovation has spread further to embrace exciting new challenges commanding wider public attention and acclaim. Lexus succeeded in building a fully functioning hoverboard. And, earlier this year, it unveiled the sleek and powerful Lexus Sport Yacht Concept, applying its technology and design skills for the first time to the world of marine high-performance.

Thus Lexus's vision is not confined to creating great cars like the new LC. Its ambition is to build an exciting global lifestyle brand with a much wider outlook, an approach captured perfectly by its new brand tagline, "Experience Amazing".

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In this way, Lexus is defining its own territory in the premium market, going beyond the purely numerical understanding of what a luxury car should be. The result is a brand experience that is supported by a passion for design, craftsmanship, quality, technology and an unparalleled customer experience – qualities that are perfectly showcased in the new LC luxury coupe.

LEXUS LC KEY FACTS:

- 1. BRAVE DESIGN:
- An all-new luxury GT with a dynamic design and evocative, fluid lines
- The first model in its segment to be offered with 21-inch wheels
- A driver-focused cabin providing both luxury and a sporting feel with a low-set driving position, helping create an ideal connection between driver and car

2. EXHILARATING PERFORMANCE:

- Lexus's all-new, ultra-rigid **GA-L platform** improves the car's inertia specifications by moving all the critical weight towards the centre, and offers a lower centre of gravity and more sporty driving position
- A highly rigid and lightweight body
- New multi-link front and rear suspension systems secure precise handling characteristics

3. IMAGINATIVE TECHNOLOGY:

- LC 500h equipped with a 3.5-litre naturally aspirated V6 engine and Lexus's **all-new Multi Stage Hybrid System**, delivering excellent efficiency and the most engaging hybrid driving experience yet.
- LC 500 equipped with a 5.0-litre naturally aspirated V8 petrol engine and a new 10-speed automatic transmission – a world first for a premium passenger car

4. TAKUMI CRAFTSMANSHIP:

Developed and produced by **highly skilled**, **high-precision Lexus Takumi workers** using knowledge gained from development of the LFA supercar and high-quality materials

- 5. Comprehensive **Lexus Safety System +** fitted as standard to ensure the highest active and passive safety standards.
- 6. A choice of two premium audio systems:
- Bespoke 13-speaker Mark Levinson Reference Product audio system or
- 12-speaker Pioneer premium audio surround system

A FLAGSHIP LUXURY COUPE

The LC is a new flagship 2+2 luxury coupe for Lexus' global model range, not only showcasing the qualities of design, engineering and advanced technology that define it as a premium vehicle manufacturer, but also symbolising its ambition as a luxury lifestyle brand.

This isn't simply a car that looks good. It has been engineered in every dimension to deliver very special driving experience. "Even sharper and more refined" were the constant watchwords as Lexus honed every aspect of the LC's performance, ride and handling.

The LC is a contemporary interpretation of the finest traditions of the grand tourer, a coupe focused on the road, not the track. Its handling, responsiveness and comfort have been tuned on some of the world's great driving roads, to deliver a rewarding and hugely enjoyable experience.

The quality is equally high in both versions of the car that are being brought to the marketplace, the LC 500h and the LC 500 – two models that offer uniquely different propositions to customers.

The LC 500h marks a revolution in the development of hybrid technology as the first model to benefit from Lexus's Multi Stage Hybrid System. Adding a multi-stage shift device to the 3.5-litre V6 hybrid powertrain helps transform the driving experience, witnessed in greater torque, more usable power across a wider range of engine speeds and rhythmic, linear acceleration that gives the driver the sensation of working with a 10-speed automatic gearbox. Moreover, these qualities are delivered with all the smoothness and efficiency for which Lexus Hybrid Drive is renowned, together with improved environmental performance.

The LC 500 is powered by the latest development of Lexus's normally aspirated V8 petrol engine, tuned to deliver 471bhp/351kW. The driver will experience a powerful acceleration feel and the kind of engine note that only a normally aspirated V8 can deliver. This unit is matched to the world's first 10-speed direct shift automatic transmission for a premium car, to secure a genuinely rewarding driving experience.

DESIGN

- Distinctive LC design for a Luxury Coupe based on award-winning LF-LC Concept car
- Avant-garde styling achieved through an unprecedented level of co-operation between Lexus's design and engineering teams
- Fluid interpretation of Lexus's "seduction and technology" design theme
- Luxury 2+2 coupe proportions, with authentic front engine/rear drive design characterised by low bonnet and roof lines and aerodynamically efficient surfacing

DYNAMIC LUXURY COUPE DESIGN

The LC's exterior design is immediately recognisable as being a faithful reinterpretation of the styling of the LF-LC concept, winner of an EyesOn Design Award when first revealed at the 2012 North American International Auto Show in Detroit.

Making the show car's styling a practical proposition for a full production car required a new way of working at Lexus, bringing the engineering and design teams together with an unprecedented degree of co-operation to achieve the desired results. Their hard work was fuelled by a shared desire to make the LC a success, without compromise. At the same time as the challenge of the exterior design was taken up, a new cabin was created, combining a driver-focused cockpit with an open and welcoming space for passengers.

The success of this teamwork was rewarded when the LC won two further EyesOn Design honours when it in turn was revealed at the 2016 Detroit Auto Show.

An unprecedented design challenge

The LC coupe is a dynamic luxury coupe with an exterior design that is radical yet elegant, with commanding visual impact.

The delivery of such uncompromised styling was at the heart of the project led by Chief Engineer Koji Sato and Chief Designer Tadao Mori. Their work was inspired by the hugely positive media and public reception for the LF-LC and the personal support of Akio Toyoda, who saw the concept as a route to introducing more emotion into the Lexus brand.

Translating the styling of the 2012 LF-LC concept into a viable production model was a complex challenge that called for a new level of collaboration between the engineering and design teams, right from the start.

Sato explains: "While maximising the fundamental taste of the LF-LC, we applied completely different specifications to create a design that goes beyond the concept – a design that will captivate you as soon as you see it. In my view, pursuing beautiful design and elaborating great performance are very similar. Beauty is the identity of Lexus's design.

"Every feature on the LC is the result of an integrated approach to design and engineering. All the team worked together, engineers and designers alike. This is why we have been able to create such a great car."

New Global Architecture - Luxury platform

The desire was to preserve the LF-LC's defining low roof and bonnet lines, while ensuring the packaging allowed the LC to accommodate a sport suspension system and 21-inch forged alloy wheels. At the same time, all powertrain, chassis and safety components had to be housed and comfortable headroom had to be provided in the cabin. The teams had the benefit of working on a completely new GA-L (Global Architecture – Luxury) platform, designed for new generations of front engine/rear-wheel drive Lexus models.

As an example of the teams' commitment to success, the front multilink suspension's control arm geometry went through six months of re-working until the required low bonnet line could be achieved, without compromising suspension performance. Other clever solutions were developed, such as the new ultra-slim LED headlight unit design, which allowed the LC to retain exceptionally short front overhangs.

EXTERIOR: AVANT GARDE ELEGANCE

The LC displays luxury coupe proportions with an exterior design that projects an avant-garde elegance, remaining faithful to many of the defining features of the LF-LC concept car that inspired it. The design wraps the car in a glamorous body that represents an evocative and fluid interpretation of Lexus's "seduction and technology" design theme.

Athletic profile

The car's athletic profile is characterised by its sweeping roofline, which tapers rearwards from above the centrally positioned cabin to create a distinctive silhouette. Chrome-plated mouldings along the side of the glass roof amplify the elegant shape, their rear edges shaped to echo the lines of a traditional Japanese sword. The blacked-out finish to the roof and rear pillars creates a floating effect that visually separates the roof from the rear spoiler.

The Sport and Sport+ Package options raise the LC's sporting appearance with the addition of a Carbon Fibre Reinforced Plastic composite roof. The Sport+ Package also features an exclusive active rear spoiler.

The LC has a 2,870mm wheelbase and, directly referencing the styling of the LF-LC, very compact overhangs (930mm front, 970mm rear) and a notably low bonnet line. Overall length is 4,770mm, width is 1,920mm and the height 1,345mm.

The prominent front and rear wings flare away from the centre of the car, housing wide, largediameter wheels, while the door panels are pulled inwards, creating a powerful threedimensional form that mirrors the spindle shape of the Lexus grille.

The LC is available with a choice of (standard-fit) 20-inch cast aluminium and (with Sport and Sport+ Packages) 20 and 21-inch forged aluminium alloy wheels.

Frontal design

The spindle grille itself – a hallmark of Lexus design – is finished in chrome and has an

arresting new mesh design with a visual tension that changes as it spreads across the front of the car. The unique LC lighting signature is created by independent daytime running lights in an arrowhead configuration and ultra-compact triple LED headlamp units. Achieving this remarkably slim headlight design played an important role in helping the designers achieve the coupe's low bonnet line and short front overhang.

Rear styling

At the rear the roof tapers down between muscular wheel arches, reinforcing the car's wide and stable stance. The Lexus spindle shape is visible here in a three-dimensional form that is generated by lines flowing from the front of the car and along the sides, before cutting back around the inner edge of the rear combination lamps. The line of the spindle then moves outwards, following the shape of the licence plate mounting and outer edges of the tailpipes.

The rear combination lamps, set vertically at the outermost edge of the bumper, have a graphic that accentuates the flow along the sides of the body and emphasises the vehicle's strong, planted look. The use of several different materials in the lens and bezel provides a further indication of the sophisticated workmanship invested in the LC. Within the combination units, the tail lights feature a new Lexus concept, using mirrors to create a multi-reflection, three-dimensional sequence of L-shaped graphics.

Aerodynamic detailing

The quality of the LC's driving dynamics is witnessed in subtle yet functional aerodynamic details. Ducts in the front and rear wheel arches improve high-speed stability and a rear diffuser and active rear spoiler (supplied with the Sport+ Package) manage airflow during performance driving (for further detail, see the section on aerodynamics, below).

AERODYNAMICS

As much as Lexus sought to carry forward the sensuous styling of the LF-LC concept into the production LC, it also worked to introduce a high level of aerodynamic performance to improve the coupe's handling stability and ride quality and to suppress wind noise.

The aim was to achieve a smooth, unbroken front to rear airflow, both over and beneath the body. Design elements that help control and direct the airflow include small but critical aero stabilising fins on the front pillars, just forward of the door mirrors. Just a 5mm difference in their size or position can affect the car's handling and level of wind noise.

An active rear spoiler, fitted as part of the Sport+ Package, is automatically deployed when vehicle speed rises above 50mph (80km/h). This suppresses lift at the rear to give a high degree of stability when driving at speed.

Aero ducts are featured just forward of the rear wheel arches, serving a highly practical function as well as contributing to the dynamic power of the LC's styling. These feed air into the wheel arch, which then exits smoothly across the sidewall of the tyre. This contributes to the car's high-speed straight-line stability and steering responsiveness. It also generates improved grip feel from the rear tyres, for example when changing lanes.

The treatment of the underbody has been given equally close attention, with an almost completely smooth finish. Parts are aligned with the aero line, which kicks up towards the rear – notably the silencer is angled upwards, like a diffuser.

DYNAMIC LUXURY INTERIOR

The dynamic luxury theme of the exterior is carried through into the LC's 2+2 cabin, which combines elegance, superb comfort, sophistication and intricate attention to detail with a driver-focused cockpit.

Cabin design

The area around the front passenger spreads outwards to create a comfortable and welcoming space. The flowing line of the door trim is an extension of an exterior line that flows from the bonnet and through the windscreen, building a sense of continuity between the outside and inside of the car.

The driver's cockpit has been ergonomically designed to instil confidence and invite spirited driving, with an intuitive layout of the controls and an excellent seating position. The driver's hip point has been located as close as possible to the coupe's centre of gravity, maximising direct feedback of the vehicle's dynamic behaviour. The driver also enjoys an excellent view of the road, uncompromised by the low seating position thanks to the low bonnet line, the low-profile instrument panel and the location and narrow width of the front pillars. The shallow height of the instrument panel has been helped by the development of compact air vents.

Ease of access

Lexus has ensured getting in and out of the LC is easy and comfortable by providing generous legroom beneath the instrument panel, reducing the height difference between the rocker panel and the vehicle floor and enlarging the door aperture to provide comfortable head space.

Steering wheel and controls

Particular attention has been paid to the steering wheel design, with a change in the cross-section around its circumference to allow for variations in grip and twisting of the wrist. New, larger magnesium alloy paddle shifts have been profiled for easier hooking with the fingertips and have a more positive and satisfying click action.

The instrument panel has a taut and rigid frame that creates a strong horizontal axis. All the principal instrumentation and function controls are contained within its cross-section.

The information displays are arranged in order of importance, with the most critical positioned closest to the driver's sightline, within the dashboard's upper display zone. All are positioned at the same height, to reduce the degree of eye movement required for the driver to read them. The instrument binnacle houses the latest development of the TFT (thin film transistor) meter technology introduced in the Lexus LFA supercar, including a moving central ring.

Driving-related switches and controls are arrayed in a control zone that is concentrated immediately around the steering wheel. These include the paddle shifts, steering wheel combination switches, Drive Mode Select switch, starter button and shift lever, each located for the best ergonomic performance, focusing on easy reach and operation that allow the driver to concentrate on the road ahead with least distraction.

The centre console features the new generation Remote Touch Interface touchpad control with quick and intuitive operation.

Throughout the cabin the quality and finish of the upholstery, trim materials and detailing reflect the Takumi craftsmanship and fine attention to detail for which Lexus is renowned worldwide, witnessed in the hand-stitching of the leather gearshift lever, the draping treatment of the Alcantara door panel trims and the discreet use of the Lexus L motif in areas such as the face of the analogue clock and even the tactile raised surfaces of the air vent controls.

Seat design

Providing the driver with a seat with the best possible combination of support and comfort was a focus point in the development of the LC's cabin. Chief Engineer Sato himself was involved in the process for developing a new design that went through an exhaustive 50 test cycles.

The aim was to deliver an advanced design with excellent holding performance and superb comfort. Lexus has achieved this with a new two-part construction technique in which the main part of the seatback drapes over the shoulder area of the seat and wraps around the back. To ensure superior lateral support, additional bolstering is provided for the driver's shoulder blade area; resin inserts improve the holding performance of the side bolsters. On the sports seats provided with the LC Sport and Sport+ Packages, the bolsters are even more substantial, with a focus on keeping the driver's back in place during high-speed cornering.

The seat cushion has been shaped to ensure excellent support for the pelvis, so that pressure is evenly distributed to the front and back. The result is a perfect fit and high comfort from the moment you sit down based on a 'self-alignment' concept.

Interior colours

The choice of interior colour schemes for the LC includes new Breezy Blue and Ochre shades, together with Lexus's established Dark Rose and Black finishes. The colour options and combinations allow customers to create a distinctive and individual cabin that projects a sporty or luxurious look.

The new Breezy Blue colourway is exclusive to special editions of the LC, combining a midblue finish for the upper door trims, steering wheel, instrument panel and centre armrest with contrasting white seat upholstery and vivid orange for the door panels and shift lever surround. The Ochre option provides a monotone finish throughout the interior in warmly harmonising shades of brown, producing a highly luxurious effect.

EXHILARATING PERFORMANCE

- LC is the first model to be constructed on the new Lexus 'Global Architecture Luxury' front engine/rear-wheel drive platform
- GA-L platform allows for a low centre of gravity and the setting of a new driving position
- · Superb body rigidity with highest torsional stiffness of any Lexus model yet
- Strategic use of different steels, aluminium and Carbon Fibre Reinforced Plastic to achieve optimum combination of strength, light weight and weight distribution
- Detailed management of inertia specifications, using low centre of gravity, vehicle mass distribution and moment of inertia to achieve "sharper, more refined" dynamic performance
- · New multi-link front and rear suspension and adoption of run-flat tyres
- Lexus Dynamic Handling with Limited-Slip Differential ensures faithful handling and ultimate steering response
- Engine sound reflects the coupe's performance qualities

The LC is the first car to be developed on Lexus's new front engine/rear-wheel drive Global Architecture – Luxury (GA-L) platform, the quality of which gives Lexus the freedom to take design and performance to another level, fundamental to its future direction as a more emotionally driven brand.

NEW GLOBAL ARCHITECTURE - LUXURY PLATFORM

The design and quality of the GA-L platform have given Lexus the opportunity to craft a highly rigid body with excellent noise and vibration characteristics. It plays a pivotal role in the new LC's dynamic performance, enabling a low centre of gravity to be achieved and a completely new driving position to be defined. Control of vehicle mass, ideal weight distribution and the accommodation of finely tuned new multilink suspension systems add to the dynamic benefits of the platform's design.

High body rigidity

The goal of obtaining emotional driving dynamics has been achieved by ensuring exceptional body rigidity and careful management of the inertia specifications.

To gain the best results, materials with different properties have been used in different areas of the coupe's construction, giving strength, rigidity and light weight in appropriate measure – in essence, "the right material for the right job".

The application of different materials can be broken down into different functions. To create a strong frame that helps provide robust cabin integrity, the non-deforming parts are made of ultra-high-tensile strength steel, while high tensile steel with good elastic properties is adopted for elements that are designed to deform in an impact to dissipate energy. The rigidity of the frame is supported by general steel with a high degree of stiffness, and aluminium is used strategically for its excellent energy-absorbing performance and for external bodywork where its lightness and tensile rigidity are of value. Finally, strong yet lightweight Carbon Fibre Reinforced Plastic (CFRP) is featured inside and out.

In pursuit of a comfortable ride, Lexus increased the amount of adhesive used to connect components in the LC's frame – around 73m in total. Also, line welds have been used in place of spot welds, wherever possible.

Inertia specifications

Precise control of the LC's inertia specifications played an important part in achieving the "even sharper, more refined" quality Lexus sought for its luxury coupe. This included giving the car a low centre of gravity, balanced front-to-rear weight distribution and a good moment of inertia.

The quality of the new GA-L-based platform gave the opportunity to rethink packaging to improve the inertia specifications and achieve an excellent combination of handling stability and ride comfort. The principal elements included locating the tyres outwards to the corners of the vehicle, reducing overall weight, lowering the driver's hip point and moving the engine 50mm rearwards. The removal of the spare tyre in favour of run-flat tyres and relocating the battery to the luggage space further helped balance the car's weight distribution.

By achieving a low centre of gravity, Lexus was able to reduce the car's roll angle without stiffening the springs and detracting from ride comfort. Overall the LC displays controlled body motion and precise, linear response, creating a rhythmical and smooth driving experience, notably when cornering and making lane changes.

The innovative packaging aimed at improving the inertia specifications also helped the designers in their mission to give the LC the dynamic visual appeal witnessed in the LF-LC concept. Moving the engine mass rearwards, behind the front axle line, results in a front/mid-ship configuration. This was essential for achieving the desired low bonnet line and making space for 21-inch wheels, giving the coupe a low, dynamic silhouette. Thus a successful synergy has been generated between engineering the best possible dynamic performance and creating a superior design.

NEW MULTILINK SUSPENSION DESIGN

The layout of the LC's new front and rear suspension systems focuses on achieving excellent vehicle response and greater steering feel, from the moment the steering wheel is turned, supporting the "even sharper" quality Lexus sought for the coupe. At the same time, a higher degree of ride comfort was a priority, combined with stability to give the driver peace of mind at all times.

The new high-mount front suspension system has an optimal arm design to secure the required level of steering feedback. Conversely, the rear suspension has a low-mount configuration, with precisely defined arm locations to achieve high-stability steering characteristics.

Double ball joints are featured on each of the two upper and two lower control arms, allowing for control of the smallest movements from driver inputs and the road surface. This arrangement helps optimise the suspension geometry and create more precise steering

response with better initial effort. The upper control arms are made of lightweight forged aluminium, contributing to the LC's weight-saving programme.

The driver can appreciate the effectiveness of the LC's suspension designs in the car's immediate response at initial turn-in, with the tyres quickly developing lateral force, delivering stability, controllability and ride comfort.

Run-flat tyres

The specification of run-flat tyres contributes to the LC's efficient packaging, weight-saving qualities, optimum weight distribution and dynamic performance.

By avoiding the need to accommodate a spare wheel, Lexus has been able to save weight and free up space to locate the sub (or auxiliary) battery in the luggage compartment, helping achieve the desired front/rear weight distribution. At the same time, a larger loadspace could be designed, without compromising the coupe's swooping profile.

The quality and performance of run-flat tyres have improved significantly as manufacturers make important advances in the application of new designs, tread patterns and material compounds, giving both high performance capabilities and everyday ride quality, durability and safety. Improved rolling resistance has also been achieved, ensuring the tyres make a contribution to the vehicle's overall fuel efficiency.

The tyres' increased lateral stiffness complements the LC's highly rigid suspension, while vertical stiffness has been reduced to favour ride comfort.

Tyre sizes are 245/45RF20 front and 275/40RF20 rear with 20-inch wheels, and 245/40RF21 front and 275/35RF21 rear with 21-inch wheels.

LEXUS DYNAMIC HANDLING WITH LIMITED-SLIP DIFFERENTIAL

The LC Sport + Package equips the LC with the Lexus Dynamic Handling system. Its role is to provide a higher level of handling in all driving scenarios, achieved through the co-ordination of the car's Variable Gear Ratio Steering (VGRS), Dynamic Rear Steering (DRS) and Electric Power Steering (EPS).

The result is excellent steering response in everyday driving, true to the driver's inputs, with a high feeling of rear tyre grip and instantaneous response in high-speed cornering that give a greater feeling of security. By equipping the LC with a limited-slip differential (LSD), Lexus allows the driver to enjoy secure acceleration while cornering; co-operation between the Vehicle Stability Control (VSC), DRS and the limited-slip differential is designed to counteract over or understeer and help keep the car to its intended line. At the same time, a natural driving feel is communicated to the driver, even at the limit of performance.

The operation of the VSC is notably enhanced, being co-ordinated with other handling and stability systems through the LC's Vehicle Dynamics Integrated Management (VDIM) and Lexus Dynamic Handling. This allows control of rear-wheel torque and steering torque in

addition to braking, in over and understeer conditions.

The quality of the steering system has been carefully engineered to suppress any unwanted vibration. Adding extra rigidity to the steering column to communicate a sense of security and responsiveness. The sharp, linear response of the EPS gives a natural feel, while taking handling precision to a higher level for a more rewarding driving experience.

ENGINE SOUND

Lexus considers the sound of the engine to be an important contributor to delivering genuinely multi-sensory driving pleasure. In the new LC the brand has taken great steps to achieve an engine sound that truly stirs the emotions. In fact, engineers have worked to combine the sounds produced both by the air intake system at the front and the exhaust system at the rear to create what they describe as a "concert hall" effect inside the cabin, both as the car gains speed and slows down.

The sound has been developed specifically for the LC, to reflect the coupe's performance qualities. As speed increases, it has an excellent tonal quality and harmony, and a depth that expresses a pulsating feel.

On the LC 500's V8 engine the front air intake is fitted with a sound generator, with carefully engineered dimensions tuned to maximise the desired sound frequency and level. The opening is connected directly to the cowl reinforcement, so sound reverberates within the enclosed space, resulting in a natural quality.

At the rear, additional external valves have been introduced in front of the main silencer, which open and close according to the driver's use of the throttle, and the length and the diameter of the main silencer pipe has been adjusted, to generate a very satisfying exhaust note.

At low engine revs the exhaust sound gives a sense of the car's power, while at high speeds the engine note evokes an exhilarating feel.

POWERTRAINS

- LC 500h powered by 3.5-litre V6 full hybrid powertrain
- First model to benefit from Lexus's new Multi Stage Hybrid System, delivering greatly enhanced torque and acceleration performance
- Compact and lightweight lithium-ion hybrid battery
- LC 500 features latest development of Lexus's 5.0-litre V8 engine, matched with the first direct shift 10-speed automatic transmission to be featured in a luxury car

TWO POWERTRAINS: 3.5-LITRE V6 FULL HYBRID WITH MULTI STAGE HYBRID SYSTEM AND NORMALLY ASPIRATED 5.0-LITRE V8

The Lexus LC gives customers the option of two powertrains, both of which benefit from numerous advanced technologies to achieve rewarding performance that fully complements the finely tuned handling qualities of the chassis.

The LC 500h marks the start of a new era in full hybrid technology, the introduction of Lexus's new Multi Stage Hybrid System. This transforms torque, power and acceleration through the addition of a new multi stage shift device to the powertrain, while still preserving the smoothness and efficiency for which Lexus hybrids are renowned.

The LC 500 is powered by a 5.0-litre normally aspirated V8 petrol engine, matched to a new close-ratio Direct Shift 10-speed automatic transmission – a first for a premium passenger car. Generating maximum power of 471bhp/351kW thanks to an optimised intake and exhaust layout and engine control, it provides rapid, rhythmic acceleration accompanied by an engine sound that expresses the V8's power.

LC 500h WITH 3.5-LITRE V6 FULL HYBRID POWERTRAIN

The 3.5-litre V6 petrol engine featured in the LC 500h's full hybrid powertrain is powerful, with a red line set at 6,600rpm, yet also environmentally efficient.

Detailed design and engineering measures have been taken to fine tune its performance, including a reduction in the diameter of the cylinder intake port to increase flow speed and efficiency, contributing to excellent power output and a feeling of continuous acceleration. The engine makes good use of Dual VVT-i (intelligent variable valve-timing), with timing precisely gauged in line with driving conditions, helping secure high torque at all engine speeds.

Measures to reduce friction losses and thus improve engine efficiency include the adoption of narrow, lightweight roller rocker arms and low-friction timing chains, while D-4S direct fuel injection helps create optimum combustion conditions, contributing to fuel economy of 44.1mpg and 145g/km CO₂ emissions in official combined cycle testing.

IMAGINATIVE TECHNOLOGY: NEW MULTI STAGE HYBRID SYSTEM

The LC 500h introduces Lexus's first Multi Stage Hybrid System, a technology that delivers a revolution in hybrid powertrain performance, aimed at changing popular perception of the kind

of driving experience a hybrid can provide.

Chief Engineer Koji Sato explained: "In the past, people only associated hybrid with 'eco'. We wanted to broaden that perception and create a true high-performance powertrain."

The Multi Stage Hybrid System amplifies engine and motor output thanks to a new multi stage shift device. This changes the output in four stages, to make use of the full range of engine speeds. This creates a system that responds much more directly to driver inputs and achieves a higher level of dynamic performance and driving pleasure, while maintaining the smoothness and efficiency that are characteristic of Lexus cars.

Improved torque and acceleration

The success of the Multi Stage Hybrid System is central to the "even sharper" quality Lexus targeted for the LC, providing responsive, direct and rhythmical acceleration with good grip. In fact, such is the level of torque and acceleration when pulling away from stationary, the LC 500h tests the limits of tyre grip.

In a conventional full hybrid vehicle, engine output is amplified by the electric motor via a reduction gear, but with the new Multi Stage Hybrid System the power from the V6 engine and the electric motor can be amplified by the transmission, allowing much greater drive power to be generated when accelerating off the line.

Lexus has succeeded in increasing maximum engine speed from 6,000 to 6,600rpm. And thanks to the Multi Stage Hybrid System, the operating range in first, second and third gears has been increased, so that maximum revs are reached at about 31mph (50km/h).

As a result, the LC 500h's 3.5-litre V6 is able to produce more drive power when pulling away than Lexus's 5.0-litre V8 hybrid vehicle engine, enabling a nought to 62mph acceleration time of just 4.7 seconds.

Transmission with 10-speed driving feel

Although the multi stage shift device changes the output in four stages, the D range has a simulated shift control pattern that replicates the feel of driving with a 10-speed shift control. As vehicle speed rises, engine speed increases with a linear, direct and continuous acceleration feel that avoids the "rubber band" effect witnessed in some continuously variable transmissions. In the 10th gear range, the CVT control allows for cruising at lower engine revs for quiet, smooth and fuel-efficient performance.

In a first for a Lexus hybrid, the transmission benefits from an improved version of the AI SHIFT control found in conventional automatics. This enables intelligent, optimum gear selection to be made in line with driving conditions and driver inputs, for example when going up or downhill. The system also includes an automatic Drive Mode switching control. This means it can adjust gear shifts to suit the driver's style and behaviour, without the driver having to select a different drive mode to get the kind of performance they want from the transmission.

M mode with manual gear selection

The design of the Multi Stage Hybrid System gives the driver use of an M mode to select and hold gears manually, using paddle shifts mounted behind the steering wheel – a function not previously available on a Lexus hybrid. Thanks to the co-ordinated control of the Power Split Device and the gear shifting mechanism, the gear shift will start instantaneously with the computer receiving the signal from the paddle shift, giving an exceptionally quick response.

LITHIUM-ION HYBRID BATTERY

The LC 500h is the first production Lexus to use a compact, lightweight, lithium-ion hybrid battery. Twenty per cent smaller than the nickel-metal hydride unit featured in the current Lexus LS, it fits neatly between the rear seats and the luggage compartment. Although smaller, it has a higher power density, with its 84 cells producing 310.8 Volts.

Using lithium-ion technology has reduced the component's weight, helping in turn reduce the LC 500h's overall mass, and has contributed to the effective management of the car's inertia specifications and an optimum front/rear weight balance. This supports overall fuel economy, emissions performance and the coupe's handling balance.

It is also the first Lexus hybrid battery to feature a satellite construction design, in which the cell voltage monitoring function has been made separate from the battery ECU. This allows for efficient use of what would otherwise be empty space inside the battery pack to house the wiring harness and battery cooling blower, thus reducing the unit's overall dimensions. The cooling blower itself has been made more powerful and thinner in size.

Adopting lithium-ion battery technology results in more compact packaging, ensuring that good luggage space is maintained.

LC 500 WITH 5.0-LITRE V8 ENGINE

The performance heart of the LC 500 is Lexus' high-revving (maximum 7,300rpm), normally aspirated 5.0-litre V8 petrol engine. It is a development of the Atkinson cycle unit which has been deployed to good effect in the GS F and RC F, its performance supported by advanced D-4S fuel injection technology. Power delivery is to the rear wheels via a new 10-speed closeratio automatic transmission (further details below).

The V8 supports the essential dynamic character of the luxury coupe, providing smooth, linear throttle response and generating a stirring engine note. Maximum power of 471bhp/351kW is delivered at 7,100rpm, with maximum torque of 540Nm generated at 4,800rpm. This gives the LC 500 a nought to 62mph sprint time of 4.4 seconds. The intention is to give the driver a sense of endless acceleration, combined with the responsiveness and high output customers expect from a normally aspirated unit. The LC 500 posts combined cycle fuel consumption figures of 24.6mpg and 263g/km CO_2 emissions.

The engine is designed for durability and has a lightweight construction, with high-strength, forged connecting rods and titanium valves that allow it to flourish at high revs. A dual intake inlet enables efficient breathing and contributes to the engine's distinctive sound (detailed in a

separate section, above). Noise and vibration have been reduced by the use of a double torsional damper on the crank pulley, while fuel efficiency is supported by the use of D-4S direct fuel injection, Atkinson cycle operation, optimised VVT-i intelligent valve timing and a high (12.3:1) compression ratio. Extensive measures have also been taken to reduce friction and pumping losses.

IMAGINATIVE TECHNOLOGY: NEW DIRECT SHIFT 10-SPEED AUTOMATIC TRANSMISSION

In designing a new Direct Shift automatic transmission for the LC 500, Lexus sought to avoid the drawbacks of systems where driving pleasure is diminished by the wider spacing of the higher gears, often producing an unappealing, drawn-out engine sound. It recognises the critical role the transmission plays in generating a rhythmic drive through good feedback and quick shifts that respond instantly to the driver's wishes.

The solution is a new 10-speed unit with close ratios that bring the gears closer together, and even spacing between each gear – a Lexus world-first for a premium passenger car.

An extra gear was added to eliminate the feel of second and third gears being drawn out for too long, and a 10th gear has been provided to allow for efficient high-speed cruising at lower engine rpm. The system provides some of the world's quickest shifts, giving a crisp feel, fast response, rhythmic shifting with no "shock" effect and a harmonised engine sound, contributing greatly to the aim of making the LC "sharper and more refined".

In another world-first for Lexus, the transmission uses an AI-SHIFT control with a drive mode switching function. This selects the optimum gear according to its estimation of the driver's preferences and intentions, based not just on vehicle speed and use of the accelerator, but also from past driving history. The system will adapt gear selection to suit, even if the driver has not used the Drive Mode Select switch.

The transmission benefits from a new torque converter with full range lock-up control to support the delivery of a pleasingly direct feel and eliminating unnecessary revving of the engine. Thanks to intelligent design and packaging and exhaustive weight-saving measures, the complete unit is comparable in size and weight to Lexus's current eight-speed automatic. Low-friction materials have been used where possible to support fuel economy and the number of internal parts – planetary gears, clutches and brakes – has been kept to a minimum.

TAKUMI CRAFTSMANSHIP

- LC quality and performance benefit from the precision skills of Lexus's Takumi master craftspeople
- Motomachi factory provides ideal environment for luxury coupe manufacturing
- · High-quality interior materials benefit from hand-finishing and stitching
- · Continuous, detailed refinement of driving dynamics

The skills of Lexus' master craftspeople – the famous Takumi – are central to the exceptional quality Lexus delivers in every car it builds. The new LC benefits from this precision approach, not just in the intricate details of its fittings and finishes, but also in the way the car rides and performs. Throughout, the experience and finely tuned judgement of the Takumi have been applied to secure the best possible results.

THE MOTOMACHI FACTORY, HOME OF THE LEXUS LFA AND THE LC

The LC is built at Lexus's Motomachi plant, famously home to production of the hand-crafted LFA supercar. The factory's lay-out and its facilities have been tailored to the production of the LC, to ensure the highest quality levels.

Many of the Takumi and skilled workers who built the LFA transferred to the LC project, bringing with them a wealth of knowledge and experience, particularly in areas such as the handling of carbon fibre components and hand-finishing.

The new production line at Motomachi has a pure white finish from floor to ceiling to create an environment that helps the team members focus on their work. Each person will spend as long as 20 minutes working on every car, combining hand and eye skills with the use of tablet devices to check and re-check the quality of each process. Skills – both mental and technical – are constantly developed to support a "no compromise" mindset when it comes to achieving Lexus' rigorous quality standards.

Final checks are carried out in a glass-walled inspection booth with LED lighting – even set into the floor – to ensure the precision finish of all surfaces and bodywork panels, the evenness of colour, the quality of the interior and the operation of functioning parts. The substantial thickness of the glass walls also allows the smallest abnormalities in sound to be detected in dynamic checks that monitor noise and vibration.

INTERIOR FINISHING

Here the skills of the Takumi can be seen in precise stitching that maintains a flawless finish where leather spreads across complex surfaces. The draping effect of the Alcantara in the door panels and the arrangement of the perforations in the leather seat upholstery are further hallmarks of the attention to detail invested in creating a perfect cabin environment.

The shape and feel of the steering wheel – a critical link in communicating the quality of the LC's performance to the driver – were defined through hours of testing and re-testing by a Takumi master driver. His exhaustive analysis produced a highly complex cross-section

design. The profile for each section of the wheel produces the ideal shape to suit the driver's changing grip and hand position as they steer. The same process was applied to developing the shape and action of the paddle shifters for manual gear selection. Crafted in cool-to-the-touch magnesium alloy, they have a finely defined profile for ease of use and they operate with a satisfying click-response.

HAND-CRAFTED GEAR SHIFT KNOB

The construction and finishing of the gear shift knob exemplify the craftsmanship and attention to detail that is invested throughout the vehicle. Great efforts have been made to ensure this highly tactile part conveys the level of quality that can only be delivered by skilled craftspeople.

The covering is leather, in keeping with the extensive use of fine leather in the LC's cabin, created using an in-stitch method that keeps the stitching concealed. The seams are straight thanks entirely to the advanced skills of the Lexus craftspeople (the sewing margin is just 2mm), while the size and shape of the stitch holes and the thickness and angle of the needle are all subject to constant checks to ensure perfect consistency.

The metal parts are slightly recessed, so the palm of the driver's hand feels only the leather surface when using the shift lever. Different parts of the knob have contrasting tactile qualities: the top is smooth and soft, with a urethane sheet adding a degree of flexibility, while the perforated leather surface on the knob's rear section is harder to the touch, adding a telling sensation to each shift change.

HIGH-SPEED RESIN TRANSFER MOULDING (RTM)

The finish of the LC's Carbon Fibre Reinforced Plastic (CFRP) has a twill weave effect, made possible by a new, high-speed resin transfer moulding (RTM) process, developed at the Motomachi factory from a technique originally used in production of the Lexus LFA. Raw carbon fibre material is inserted into a mould and clamped in place before the insertion of the resin material. As a result, the process has been made suitable for volume production. The use of the CFRP roof makes a major contribution to the coupe's low centre of gravity and reduces overall weight.

SELF-PIERCING RIVETS

Lexus has adopted a new technique for combining aluminium with steel to help save weight in key areas, notably the construction of the front suspension towers.

The use of self-piercing rivets allows these different metals to be securely joined where traditional welding methods are unsuitable: in place of spot-welding, the material is pierced on its upper side only.

DRIVING DYNAMICS

The skills and experience of the Takumi were further invested in securing excellent driving

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dynamics for the new luxury coupe. The aim was to ensure that when you take the wheel and pull away, the car delivers on the promise of a great drive expressed by its styling and the sound of the engine on start-up.

The sharpness and responsiveness of the steering, the strong, rhythmic progress of the transmission, the supportiveness and comfort of the seats and the position of your feet and the pedals — all these elements and more were scrutinised to produce the best possible combination, with the goal not just of a rewarding drive, but performance that actively makes you want to drive.

Prototypes were assessed on all kinds of roads, including in Europe and the USA, to ensure that ride and handling meet the different demands of drivers and driving conditions around the world.

A Takumi master driver worked exclusively on the LC to maintain a complete focus, making fine adjustments to achieve the best results, right up to the start of production.

LEXUS SAFETY SYSTEM +

- All LC models equipped with Lexus Safety System +
- Package of active safety features includes Pre-Collision System, Dynamic Radar Cruise Control, Lane-Keep Assist with Lane Departure Alert, Automatic High Beam and Road Sign Assist
- Lexus Safety System + helps reduce the risk of an accident, alerts the driver to potential hazards and can help reduce the consequences should an impact be unavoidable

All versions of the LC are equipped as standard with Lexus Safety System +, a collection of active safety and driver assistance features that can help the driver avoid an accident, or help lessen the consequences of a collision.

A camera and a millimetre-wave radar monitor the road ahead for potential hazards and collision risks. This provides the LC with a Pre-Collision System which is designed to detect vehicles and pedestrians; Dynamic Radar Cruise Control (ACC); Lane-Keep Assist (LKA) with Lane Departure Alert (LDA) and a Sway Warning function; an Automatic High Beam system (AHB); and Road Sign Assist (RSA).

Pre-Collision System

Designed to detect the risk of an impact and operating in unison with warning and braking systems, the Pre-Collision System helps to lessen the damage sustained in a collision. It is designed to recognise both vehicles and pedestrians in the vehicle's path, using data from a forward recognition camera and millimetre wave radar sensor.

If it determines that the possibility of a collision is high, pre-collision warning control and pre-collision brake assist control are initiated. If a collision is imminent, pre-collision braking control will be engaged to help reduce the impact of the collision, or help avoid it.

If the driver fails to react and the system judges a collision to be imminent, the brakes are automatically applied to reduce vehicle speed by up to 25mph (40km/h), which could potentially bring the car to a stop in order to help mitigate the force of an impact.

All-speed Adaptive Cruise Control

The same radar unit used by the PCS provides the LC with All-speed Adaptive Cruise Control (ACC). This helps the driver maintain a safe distance from the vehicle in front, down to very low speeds, even to a standstill. Once the way ahead is clear, the LC automatically and smoothly accelerates to its pre-set cruising speed. If the car has been brought to a halt, the driver simply needs to press the accelerator briefly to reactivate the system.

Lane-Keep Assist, Lane Departure Alert and Vehicle Sway Warning

The LC's Lexus Safety System + package includes Advanced Lane-Keep Assist, which is designed to recognise when the vehicle is deviating from its lane on the highway. It helps the driver steer the vehicle safely back to its correct path, automatically providing steering inputs to keep the car within its lane. Working with the ACC, it can operate even at very low vehicle speeds. 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.

Lane Departure Alert (LDA) uses a camera on the windscreen to track the vehicle's course between lane markings painted on the road surface. If it judges that the vehicle is about to move out of its lane without the turn indicator being used, the system triggers a light on the multi-information display and sounds a warning buzzer. It will also apply appropriate steering control force to help bring the vehicle back on course.

The system also includes a Vehicle 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, it will sound an alert and display a warning on the multi-information display, recommending the driver takes a break.

Automatic High Beam

Lexus Safety System + includes Automatic High Beam (AHB), which detects oncoming traffic and vehicles ahead and automatically switches the headlights between high and low beam. This helps maximise illumination and give the driver the best possible field of vision when the road ahead is clear, while minimising the risk of dazzling other road users.

Road Sign Assist

The driver gains a "second set of eyes" when it comes to important road signs on motorways and major routes. The Road Sign Assist (RSA) uses a front camera which recognises principal warning and command signs; these are then replicated on the multi-information display, reducing the risk of the driver not being aware of speed limits, lane closures and other important information.

If the system detects the driver is not respecting no overtaking, no entry and speed limit commands, it will give visual and audible alerts. The driver can customise the system's operation via the multi-information display, using switches on the steering wheel.

AUDIO SYSTEMS

- Thirteen-speaker Mark Levinson Reference Product audio system option uses innovative technologies to deliver concert hall quality sound
- Twelve-speaker Pioneer premium audio surround system for real-life immersive soundscape

MARK LEVINSON

Lexus has enjoyed an auto industry-exclusive partnership with Mark Levinson since 2001, giving its customers the benefit of bespoke audio systems of the highest quality in its vehicles. The new LC follows in this tradition, offering exclusive optional equipment from Mark Levinson's top-of-the-range Reference Product.

Designing the system to deliver the highest listening experience in the LC presented new challenges, as sound reacts differently in the compact cabin of the 2+2 coupe compared to a larger saloon or SUV. Mark Levinson specialists measured the sound frequencies produced in different parts of the cabin using 24 individual microphones, producing data that helped them work with Lexus engineers to precisely locate the 13 speakers.

"As a result, the audio system is able to make the cabin sound larger than it actually is, giving the listener the sensation of being in a concert hall rather than the interior of a vehicle," said LC Chief Engineer Koji Sato.

To support Lexus's requirements for low vehicle weight, Mark Levinson engineers reduced the mass of the speakers achieving a 30 per cent overall reduction compared to the current Lexus LS, without compromising performance. Overall the saving was 136g for each comparable speaker.

The speakers in the LC feature Ceramic Metal Matrix Diaphragm (CMMD) cone material. By sandwiching an aluminium driver between layers of a ceramic compound, sound can travel nearly twice as fast through the cones with better damping, producing a sound that is a near-exact replication of the original recording.

CMMD construction allows Mark Levinson to offer the first application of Direct Drive Unity, an innovative speaker-within-a-speaker concept that provides both a mid-range and high-frequency transducer in a single housing. This allows sound quality and sound pressure level to be maximised within a compact design.

The system also features Clari-Fi music restoration technology that enhances music playback by automatically analysing and improving the quality of all types of compressed, digitised music sources. It identifies music signals that have been compressed and restores them in real time during playback to achieve an accurate and full listening experience.

PIONEER

The LC is equipped as standard with a 12-speaker Pioneer premium audio surround system. Specifically designed for the new model, this system integrates advanced technologies to accurately reproduce any sound source, resulting in a real-life, immersive soundscape that contributes to the overall driving pleasure.

The Pioneer system includes four innovative 9cm CST (Coherent Source Transducer) double speakers, combining tweeter and mid-range functions for optimal rendition of vocal frequencies, located at the base of the front pillars and in the rear cabin side panels. The two 16cm woofers in the front doors are contained in a special housing in order to reduce vibrations, resulting in excellent low-frequency sound generation. Other elements include a 9cm midrange speaker in the centre of the instrument panel, a 25cm subwoofer in the back of the rear seats, and an eight-channel Class-D amplifier under the luggage compartment floor.

The speakers housed in the instrument panel are inclined to a certain angle to ensure that the sound directly coming from the speakers and the sound reflected by the windshield both reach the listener in the most efficient way, realising a rich, dynamic sound field.

UK MODEL RANGE AND PRICING

- LC 500 and 500h share the same luxury equipment specification
- Features include Lexus Safety System +, fine leather upholstery, Lexus Premium Navigation and climate concierge
- Optional Sport Package adds sports front seats, Alcantara upholstery, carbon fibre roof and 21-inch forged alloy wheels
- Sport + Package further adds active rear spoiler, carbon fibre scuff plates,
 Alcantara headlining and cabin trim and Lexus Dynamic Handling with Rear Steering, Variable Gear Ratio Steering and Torsen limited-slip differential
- Options include Mark Levinson Reference Product audio system and colour head-up display
- New LC on sale now with prices from £76,595 on the road

The new Lexus LC 500 and 500h share a specification that is rich in advanced technologies and luxurious comfort and convenience features.

Standard equipment for the exterior includes 20-inch cast alloy wheels, a glass roof with sunshade, LED lights front and rear, rain-sensing wipers and power door mirrors with autofolding and reverse tilt functions.

Cabin comfort is maintained with Lexus's Climate Concierge system with nanoe technology to maintain optimum air quality and temperature. The semi-aniline leather-upholstered front seats are electrically adjustable and have integrated heating and ventilation functions.

Lexus Premium Navigation is provided, together with a 12-speaker Pioneer audio system, DVD player and 10.25-inch display. The instrumentation includes LFA-style meters with moving rings and an eight-inch colour TFT multi-information display. Aluminium sports pedals, an auto-dimming, frameless rear-view mirrors, LED cabin lighting and draped Alcantara door trims are also standard.

The optional Sport Package adds sports front seats, Alcantara upholstery, carbon fibre roof and 21-inch forged alloy wheels, with the Sport + Package further equipping the LC with an active rear spoiler, carbon fibre scuff plates, Alcantara headlining and cabin trim and Lexus Dynamic Handling with Rear Steering, Variable Gear Ratio Steering and Torsen limited-slip differential.

There are just three equipment options: the 13-speaker Mark Levinson Reference Product audio system, a colour head-up display and metallic paint.

The new LC range is on sale now. On-the-road prices (equal for the LC 500 and LC 500h) are shown below.

MODEL	ON-THE-ROAD PRICE
LC 500	£76,595
LC 500 with Sport Package	£80,595
LC 500 with Sport + Package	£85,895
LC 500h	£76,595
LC 500h with Sport Package	£80,595
LC 500h with Sport + Package	£85,895

LEXUS LC TECHNICAL SPECIFICATIONS

ENGINE	LC 500
Engine code	2UR-GSE
Engine type	5.0-litre V8
Valve mechanism	32-valve DOHC with Dual VVT-i
Displacement (cc)	4,969
Bore x stroke (mm)	94 x 89.5
Compression ratio	12.3:1
Max. power (bhp/kW @ rpm)	471/351 @ 7,100
Max. torque (Nm @ rpm)	540 @ 4,800
ENGINE AND HYBRID SYSTEM	LC 500h
Engine code	8GR-FXS
Engine type	3.5-litre V6
Valve mechanism	24-valve DOHC with VVT-iW (intake) and VVT-i
	(exhaust)
Displacement (cc)	3,456
Bore x stroke (mm)	94 x 83
Compression ratio	13.0:1
Total system output (bhp/kW)	354/264
Max. engine power (bhp/kW @	295/220 @ 6,600
rpm)	
Max. engine torque (Nm @ rpm)	348 @ 4,900
Motor generator	
Туре	A/C permanent magnet, synchronous motor
Max. voltage	650
Max. power (bhp/kW)	177/132
Max. torque (Nm)	300
Hybrid battery	
Туре	Lithium-ion
Nominal voltage	310.8
Number of cells	84

System voltage		6	50
PERFORMANCE		LC 500	LC 500h
0-62mph (sec)		4.4	4.7
Max. speed (mph)		168	155
DIMENSIONS		LC 500 LC 500h	
Overall length (mm)	4,	770
Overall width (mm)		1,9	920
Overall height (mm)	1,3	345
Wheelbase (mm)			870
Track front (mm)			630
Track rear (mm)			635
Overhang front (mr		930	
Overhang rear (mm		970	
Coefficient of Drag	` '	0.33	
Fuel tank capacity		{	32
INTERIOR DIMEN			
Interior length (mm			868
Interior width (mm)			550
Interior height (mm			080
Luggage capacity (litres)	197	172
WEIGHTS (kg)		LC 500	LC 500h
Kerb weight		1,935 – 1,970	1,985 – 2,020
Gross vehicle weig	ht	2,375	2,445
TRANSMISSION		10AT	Multi Stage Hybrid
Gear ratios	1 st	4.923	3.538
	2 nd	3.153	1.888
	3 rd	2.349	1.000
	4 th	1.879	0.650
	5 th	1.462	Variable
	6 th	1.193	Variable
	7 th	1.000	Variable
	8 th	0.792	Variable
	9 th	0.640	Variable
	10 th	0.598	Variable
	Reverse	5.169	Variable
Differential ratio		2.337	3.357
FUEL CONSUMPT		LC 500	LC 500h
Combined (mpg)	20in wheels	24.6	44.1
	21in wheels	24.4	43.5
Urban (mpg)	20in wheels	16.2	39.2
	21in wheels	16.1	38.7
Extra urban (mpg)	20in wheels	35.3	47.9
	21in wheels	34.4	47.1
EMISSIONS & INS		LC 500	LC 500h
CO ₂ - combined	20in wheels	263	145
(g/km) ·	21in wheels	267	148
Insurance groups		48E/49E	48E/49E
SUSPENSION			1000
Front			ıltilink
Rear			ıltilink
BRAKES		LC 500	LC 500h
Front			with 6-pot callipers
Rear			with 4-pot callipers
Front disc size (dia	meter x thickness	337.	8 x 36
mm)	, , , , , ,	<u> </u>	
Rear disc size (diar	meter x thickness	308.2	2 x 30
mm)			

STEERING		
Туре		Rack and pinion, electric power steering
Ratio		13.0:1
Turns (lock to loc	ck)	2.6
Min. turning	Tyre	5.4
radius (m)	Body	5.91
WHEELS & TYP	RES	
Wheel sizes		20-inch cast alloy
		21-inch forged alloy
Tyre sizes		245/45RF20 front/275/40RF20 rear
		245/40RF21 front/275/35RF21 rear

LEXUS LC EQUIPMENT SPECIFICATIONS

SAFETY & DRIVING DYNAMICS	LC 500/500h	SPORT	SPORT
		PACKAGE	PACKAGE +
Lexus Safety System +: Adaptive Cruise	✓	✓	✓
Control, Pre-Crash Safety, Traffic Sign			
Recognition, Advanced Lane Keep Assist,			
Sway Warning System, Automatic High			
Beam			
ABS with Brake Assist	✓	✓	✓
Traction control	✓	✓	✓
Vehicle Stability Control	✓	✓	✓
Vehicle Dynamics Integrated Management	✓	✓	×
(VDIM)			
Lexus Dynamic Handling with Dynamic	*	×	✓
Rear Steering			
Hill-start Assist Control with hold switch	✓	✓	✓
Electric Power Steering	✓	✓	×
Electric Power Steering with Variable Gear	×	×	✓
Ratio Steering (VGRS)			
Dynamic Rear Steering	*	×	✓
Blind Spot Monitor with Rear Cross Traffic	✓	✓	✓
Alert			
Adaptive Variable Suspension (AVS)	✓	✓	✓
Torsen Limited-Slip Differential	*	×	✓
Auto-locate tyre pressure warning system	✓	✓	✓
Driver and front passenger front, side and	✓	✓	✓
knee airbags			
Curtain airbags	✓	✓	✓
Isofix child seat mounts x2	✓	✓	✓
Pop-up hood	✓	✓	√
INSTRUMENTS & CONTROLS	LC 500/500h	SPORT	SPORT
		PACKAGE	PACKAGE +
Heated three-spoke steering wheel	✓	✓	✓
Smart entry and push-button start	✓	✓	√
Adaptive instrument display with G sensor	✓	✓	✓
display			

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Power front windows with auto up/down 8in TFT colour multi-information display Analogue clock Colour head-up display Opt Opt Opt Opt Opt Opt AUDIO, NAVIGATION & ENTERTAINMENT Lexus Premium Navigation: Pioneer 12- speaker audio, 10.25in display, DVD player, access to connected services, full European mapping, Street View, reversing camera 13-speaker Mark Levinson Reference Product audio DAB reception USB port x2 Aux-in socket USB port x2 Aux-in socket UsBluetooth COMFORT & CONVENIENCE LC 500/500h SPORT PACKAGE PACKAGE + COMFORT & CONVENIENCE LC 500/500h SPORT PACKAGE PACKAGE + V	Rain-sensing wipers	✓	✓	√
Bin TFT colour multi-information display		✓	✓	√
Analogue clock Colour head-up display ADIDIO, NAVIGATION & ENTERTAINMENT Lexus Premium Navigation: Pioneer 12- speaker audio, 10:25in display, DVD player, access to connected services, full European mapping, Street View, reversing camera 13-speaker Mark Levinson Reference Product audio DAB reception USB port x2 V V V V V V V V V V V USB port x2 V V V V USB port x2 V V V V V USB port x2 V V V V V V USB port x2 V V V V V USB port x2 V V V V V USB port x2 V V V V V V USB port x2 V V V V V V USB port x2 V V V V V V V USB port x2 V V V V V V USB port x2 V V V V V V V USB port x2 V V V V V V V USB port x2 V V V V V V V USB port x2 V V V V V V V V USB port x2 V V V V V V V V V V V V USB port x2 V V V V V V V V V V V V V V V V V V V	·	✓	✓	√
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Lexus Premium Navigation: Pioneer 12- speaker audio, 10.25in display, DVD player, access to connected services, full European mapping, Street View, reversing camera 13-speaker Mark Levinson Reference Product audio DAB reception USB port x2 Aux-in socket Bluetooth COMFORT & CONVENIENCE LC 500/500h PACKAGE PACKAGE PACKAGE PACKAGE PIeletrically adjustable steering column Auto-dimming, frameless rear-view mirror LED interior lighting Touch-operated map lights Electric fuel filler release Electric boot lid release Electric boot lid release Cup holder in centre console SECURITY LC 500/500h SPORT PACKAGE	·			
speaker audio, 10.25in display, DVD player, access to connected services, full European mapping, Street View, reversing camera 13-speaker Mark Levinson Reference Product audio DAB reception USB port x2 Aux-in socket Bluetooth COMFORT & CONVENIENCE LC 500/500h SPORT PACKAGE PACKAGE + Dual-zone climate control with nanoe technology and climate concierge Electrically adjustable steering column Auto-dimming, frameless rear-view mirror LED interior lighting Touch-operated map lights Electric fuel filler release Electric boot lid release Electric boot lid release Centre arm rest with storage Cup holder in centre console SECURITY LC 500/500h SPORT PACKAGE	Lexus Premium Navigation: Pioneer 12-	√	√	✓
player, access to connected services, full European mapping, Street View, reversing camera 13-speaker Mark Levinson Reference Opt Opt Opt Product audio DAB reception USB port x2 Aux-in socket Bluetooth COMFORT & CONVENIENCE LC 500/500h PACKAGE Dual-zone climate control with nanoe technology and climate concierge Electrically adjustable steering column Auto-dimming, frameless rear-view mirror LED interior lighting Touch-operated map lights Flectric fuel filler release Flectric boot lid release Instrument panel and door trim illumination Aluminium sports pedals Centre arm rest with storage Cup holder in centre console SECURITY LC 500/500h SPORT PACKAGE PACKAGE V V V V V V V V V V V V V				
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Product audio DAB reception ✓ </td <td>13-speaker Mark Levinson Reference</td> <td>Opt</td> <td>Opt</td> <td>Opt</td>	13-speaker Mark Levinson Reference	Opt	Opt	Opt
USB port x2	Product audio		·	•
USB port x2	DAB reception	✓	✓	✓
Aux-in socket Bluetooth COMFORT & CONVENIENCE Dual-zone climate control with nanoe technology and climate concierge Electrically adjustable steering column Auto-dimming, frameless rear-view mirror LED interior lighting Touch-operated map lights Electric fuel filler release Electric boot lid release Instrument panel and door trim illumination Aluminium sports pedals Centre arm rest with storage Cup holder in centre console SECURITY LC 500/500h SPORT PACKAGE Alarm	•	✓	✓	✓
COMFORT & CONVENIENCE Dual-zone climate control with nanoe technology and climate concierge Electrically adjustable steering column Auto-dimming, frameless rear-view mirror LED interior lighting Touch-operated map lights Electric fuel filler release Electric boot lid release Instrument panel and door trim illumination Aluminium sports pedals Centre arm rest with storage Cup holder in centre console SECURITY LC 500/500h SPORT PACKAGE Alarm Alarm	Aux-in socket	✓	✓	✓
Dual-zone climate control with nanoe technology and climate concierge Electrically adjustable steering column Auto-dimming, frameless rear-view mirror LED interior lighting Touch-operated map lights Electric fuel filler release Electric boot lid release Instrument panel and door trim illumination Aluminium sports pedals Centre arm rest with storage Cup holder in centre console SECURITY Alarm Intrusion sensor Glass breakage sensor Tilt sensor Window etching with VIN Locking wheel nuts SEATING, UPHOLSTERY & TRIM PACKAGE PACKAGE V V V V V V V V V V V V V	Bluetooth	✓	✓	✓
Dual-zone climate control with nanoe technology and climate concierge Electrically adjustable steering column Auto-dimming, frameless rear-view mirror LED interior lighting Touch-operated map lights Electric fuel filler release Electric boot lid release Instrument panel and door trim illumination Aluminium sports pedals Centre arm rest with storage Cup holder in centre console SECURITY Alarm Intrusion sensor Glass breakage sensor Tilt sensor Window etching with VIN Locking wheel nuts SEATING, UPHOLSTERY & TRIM PACKAGE PACKAGE V V V V V V V V V V V V V	COMFORT & CONVENIENCE	LC 500/500h	SPORT	SPORT
Electrically adjustable steering column Auto-dimming, frameless rear-view mirror LED interior lighting Touch-operated map lights Electric fuel filler release Electric fuel filler release Flectric boot lid release Flectric fuel filler Flectric boot lid release Flectric fuel filler Flectric			PACKAGE	PACKAGE +
Electrically adjustable steering column Auto-dimming, frameless rear-view mirror LED interior lighting Touch-operated map lights Electric fuel filler release Electric boot lid release Instrument panel and door trim illumination Aluminium sports pedals Centre arm rest with storage Cup holder in centre console SECURITY LC 500/500h SPORT PACKAGE PACKAGE + Alarm Alarm	Dual-zone climate control with nanoe	✓	✓	
Electrically adjustable steering column Auto-dimming, frameless rear-view mirror LED interior lighting Touch-operated map lights Electric fuel filler release Electric boot lid release Instrument panel and door trim illumination Aluminium sports pedals Centre arm rest with storage Cup holder in centre console SECURITY LC 500/500h SPORT PACKAGE PACKAGE + Alarm Alarm	technology and climate concierge			
Auto-dimming, frameless rear-view mirror LED interior lighting Touch-operated map lights Electric fuel filler release Electric boot lid release V Instrument panel and door trim illumination Aluminium sports pedals Centre arm rest with storage Cup holder in centre console SECURITY LC 500/500h SPORT PACKAGE FACKAGE + Alarm V Intrusion sensor Glass breakage sensor Tilt sensor Window etching with VIN Locking wheel nuts SEATING, UPHOLSTERY & TRIM Semi-aniline leather upholstery Sports front seats with Alcantara upholstery and leather bolsters		✓	✓	✓
LED interior lighting Touch-operated map lights Electric fuel filler release Electric boot lid release V Instrument panel and door trim illumination Aluminium sports pedals Centre arm rest with storage Cup holder in centre console SECURITY LC 500/500h SPORT PACKAGE Alarm V Intrusion sensor Glass breakage sensor V Window etching with VIN Locking wheel nuts SEATING, UPHOLSTERY & TRIM Semi-aniline leather upholstery Sports front seats with Alcantara upholstery and leather bolsters		✓	✓	✓
Electric fuel filler release Electric boot lid release Instrument panel and door trim illumination Aluminium sports pedals Centre arm rest with storage Cup holder in centre console SECURITY LC 500/500h SPORT PACKAGE PACKAGE + Alarm Alar	LED interior lighting	√	✓	✓
Electric boot lid release Electric boot lid release Instrument panel and door trim illumination Aluminium sports pedals Centre arm rest with storage Cup holder in centre console SECURITY LC 500/500h SPORT PACKAGE PACKAGE + Alarm	Touch-operated map lights	✓	✓	✓
Instrument panel and door trim illumination Aluminium sports pedals Centre arm rest with storage Cup holder in centre console SECURITY LC 500/500h SPORT PACKAGE PACKAGE + Alarm Intrusion sensor Glass breakage sensor Tilt sensor Window etching with VIN Locking wheel nuts SEATING, UPHOLSTERY & TRIM Sport PACKAGE LC 500/500h SPORT PACKAGE PACKAGE + LC 500/500h SPORT PACKAGE PACKAGE + V V V V V V V V V V V V V	Electric fuel filler release	✓	✓	✓
Aluminium sports pedals Centre arm rest with storage Cup holder in centre console SECURITY LC 500/500h SPORT PACKAGE PACKAGE + Alarm A	Electric boot lid release	✓	✓	✓
Centre arm rest with storage Cup holder in centre console SECURITY LC 500/500h SPORT PACKAGE PACKAGE + Alarm Intrusion sensor Glass breakage sensor Tilt sensor Window etching with VIN Locking wheel nuts SEATING, UPHOLSTERY & TRIM Semi-aniline leather upholstery Sports front seats with Alcantara upholstery and leather bolsters	Instrument panel and door trim illumination	✓	✓	✓
Centre arm rest with storage Cup holder in centre console SECURITY LC 500/500h SPORT PACKAGE PACKAGE + Alarm Intrusion sensor Glass breakage sensor Tilt sensor Window etching with VIN Locking wheel nuts SEATING, UPHOLSTERY & TRIM Semi-aniline leather upholstery Sports front seats with Alcantara upholstery and leather bolsters	Aluminium sports pedals	✓	✓	✓
SECURITY LC 500/500h SPORT PACKAGE Alarm /	Centre arm rest with storage	✓	✓	✓
Alarm Alarm Intrusion sensor Glass breakage sensor Tilt sensor Window etching with VIN Locking wheel nuts SEATING, UPHOLSTERY & TRIM Semi-aniline leather upholstery Sports front seats with Alcantara upholstery and leather bolsters PACKAGE V V V V V V V V V V V V	Cup holder in centre console	✓	✓	✓
Alarm Intrusion sensor Glass breakage sensor Tilt sensor Window etching with VIN Locking wheel nuts SEATING, UPHOLSTERY & TRIM Semi-aniline leather upholstery Sports front seats with Alcantara upholstery and leather bolsters	SECURITY	LC 500/500h	SPORT	SPORT
Intrusion sensor Glass breakage sensor Tilt sensor Window etching with VIN Locking wheel nuts SEATING, UPHOLSTERY & TRIM Semi-aniline leather upholstery Sports front seats with Alcantara upholstery and leather bolsters			PACKAGE	PACKAGE +
Glass breakage sensor Tilt sensor Window etching with VIN Locking wheel nuts SEATING, UPHOLSTERY & TRIM Semi-aniline leather upholstery Sports front seats with Alcantara upholstery and leather bolsters	Alarm	✓	✓	✓
Tilt sensor Window etching with VIN Locking wheel nuts SEATING, UPHOLSTERY & TRIM Semi-aniline leather upholstery Sports front seats with Alcantara upholstery and leather bolsters	Intrusion sensor	✓	✓	✓
Window etching with VIN Locking wheel nuts SEATING, UPHOLSTERY & TRIM LC 500/500h SPORT PACKAGE PACKAGE + Semi-aniline leather upholstery Sports front seats with Alcantara upholstery and leather bolsters	Glass breakage sensor	✓	✓	✓
Locking wheel nuts SEATING, UPHOLSTERY & TRIM LC 500/500h SPORT PACKAGE + Semi-aniline leather upholstery Sports front seats with Alcantara upholstery and leather bolsters	Tilt sensor	✓	✓	✓
SEATING, UPHOLSTERY & TRIM LC 500/500h SPORT PACKAGE + Semi-aniline leather upholstery Sports front seats with Alcantara upholstery and leather bolsters	Window etching with VIN	✓	✓	✓
PACKAGE PACKAGE + Semi-aniline leather upholstery Sports front seats with Alcantara upholstery and leather bolsters PACKAGE + ✓ ✓ ✓	Locking wheel nuts	✓	✓	✓
Sports front seats with Alcantara × ✓ ✓ ✓ upholstery and leather bolsters	SEATING, UPHOLSTERY & TRIM	LC 500/500h		
Sports front seats with Alcantara × ✓ ✓ upholstery and leather bolsters	Semi-aniline leather upholstery	✓		
upholstery and leather bolsters	Sports front seats with Alcantara	×	✓	✓
·	upholstery and leather bolsters			
	Alcantara headlining, parcel shelf, sun	×	×	✓

"PROTECTED 関係者外秘

8-way electrically adjustable front seats			
	×	✓	✓
10-way electrically adjustable front seats	✓		
(inc. head restraint adjustment)			
Front seat heating and ventilation	✓	✓	✓
2-way front seat electric lumbar	✓	✓	✓
adjustment			
Memory setting for driver's seat	✓	✓	✓
2 rear seats (fixed)	✓	✓	✓
Carpet mats	✓	✓	✓
Draped Alcantara door trims	✓	✓	✓
Leather gear lever trim	✓	✓	✓
Aluminium scuff plates	✓	✓	×
Carbon fibre scuff plates	×	×	✓
EXTERIOR	LC 500/500h	SPORT	SPORT
		PACKAGE	PACKAGE +
LED headlights with Automatic High Beam	✓	✓	✓
len i e c			
and follow-me-home function			
LED daytime running lights	✓	√	✓
	✓ ✓	✓ ✓	✓ ✓
LED daytime running lights	·	·	
LED daytime running lights LED cornering lights	·	·	
LED daytime running lights LED cornering lights Multi-LED turn indicators	✓ ✓	√ √	√ √
LED daytime running lights LED cornering lights Multi-LED turn indicators LED rear combination lights	✓ ✓	√ √ √	√ √ √
LED daytime running lights LED cornering lights Multi-LED turn indicators LED rear combination lights Heated, auto-dimming, auto-folding door mirrors with memory and reverse-tilt functions	✓ ✓	√ √ √	√ √ √
LED daytime running lights LED cornering lights Multi-LED turn indicators LED rear combination lights Heated, auto-dimming, auto-folding door mirrors with memory and reverse-tilt functions Rear privacy glass	✓ ✓	√ √ √	√ √ √
LED daytime running lights LED cornering lights Multi-LED turn indicators LED rear combination lights Heated, auto-dimming, auto-folding door mirrors with memory and reverse-tilt functions Rear privacy glass LED door illumination	√ √ √	√	✓ ✓ ✓ ✓
LED daytime running lights LED cornering lights Multi-LED turn indicators LED rear combination lights Heated, auto-dimming, auto-folding door mirrors with memory and reverse-tilt functions Rear privacy glass	✓ ✓ ✓	√	✓ ✓ ✓
LED daytime running lights LED cornering lights Multi-LED turn indicators LED rear combination lights Heated, auto-dimming, auto-folding door mirrors with memory and reverse-tilt functions Rear privacy glass LED door illumination Glass roof with manual sunshade Carbon fibre roof	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	\frac{}{}	✓ ✓ ✓ ✓
LED daytime running lights LED cornering lights Multi-LED turn indicators LED rear combination lights Heated, auto-dimming, auto-folding door mirrors with memory and reverse-tilt functions Rear privacy glass LED door illumination Glass roof with manual sunshade Carbon fibre roof Retractable rear spoiler	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	✓ ✓ ✓ ✓ ✓ ×	✓ ✓ ✓ ✓ ✓ ×
LED daytime running lights LED cornering lights Multi-LED turn indicators LED rear combination lights Heated, auto-dimming, auto-folding door mirrors with memory and reverse-tilt functions Rear privacy glass LED door illumination Glass roof with manual sunshade Carbon fibre roof	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓