

2019 PRESS KIT

LEXUSES



CONTENTS

- 2 Overview
- 14 ES 350 Product Specifications
- 18 ES 300h Product Specifications
- 19 Features and Options
- 23 About Lexus and Contacts

A NEW LEVEL OF PERFORMANCE AND SOPHISTICATION -- THE NEXT GENERATION LEXUS ES

- Emotional Design Reflects New Dynamic Capabilities
- Introduction of the First F SPORT Model in the ES Lineup
- Hybrid Model Delivers Exceptional Mileage and Improved Performance

NASHVILLE, TN – After nearly thirty years of success, the seventh-generation Lexus ES is set to redefine its status among entry-level executive sedans. Long known for its unparalleled comfort, refinement and luxury appointments, the 2019 Lexus ES builds on its strengths with an all-new chassis that allows for a more dynamic exterior design and the introduction of the first ES F SPORT.

The introduction of the new Lexus ES continues the brand's commitment to crafting vehicles with heightened excitement, emotion and passion. Traditional buyers will find the new ES more spacious and quieter while a new generation of customers will be introduced to a sedan with sharpened performance, advanced active safety technology and a level of craftsmanship rarely found in this segment.

The New Dimension of ES Design

A key element of the redesigned ES is the all-new Global Architecture-K (GA-K) platform. More than just an engineering achievement, the GA-K platform gave the designers the flexibility to create an ES that's as visibly striking as it is enjoyable to drive. The result is an ES sedan that is longer (+2.6 in), lower (-0.2 in) and wider (+1.8 in.) than before with wheels that have been pushed closer to the corners thanks to a two-inch longer wheelbase and wider tracks front (+0.4 in) and rear (+1.5 in). Its stance and proportions reflect its newfound performance capabilities and give the ES the kind of eye-catching appearance that will make owners take a second look as they walk away.

Project Chief Designer, Yasuo Kajino, describes the look of the ES as “provocative elegance”. Kajino says:

“The ES has always been an elegant luxury sedan. For this generation, we have added daring design elements that challenge the traditional expectations of buyers.”

The provocative elegance of the design starts up front with the latest iteration of the brand's signature grille. It follows the path set forth by the LC coupe and LS flagship, yet adds individual cues that are unique to the ES like the vertical grille pattern and satin plated trim. That theme is repeated at each corner of the bumper to give the ES a wide, planted look that promotes strength and stability.

The newly introduced F SPORT model sets out in a different direction entirely, with a grille that borrows directly from the LS flagship. In place of the standard model's vertical bars, the F SPORT has a mesh pattern composed of interlocking "L"s with a jet black finish and dark trim. Cut outs at each corner of the front fascia also sport the black finish mesh, but have even wider openings than the standard model to further emphasize the firmly anchored stance.

To complete the transformation of the front fascia, Kajino's team gave the ES slim headlamps with distinctive "L" shaped marker lights. Optional triple beam headlights further refine the look with three compact LED projector units while the standard design features a single LED projector beam design that retains the signature "L"-shaped marker lights.

In profile, the ES has a dynamic yet fluid shape that starts with the low hood line made possible by the GA-K platform. From there, the roofline remains low and sleek thanks to the relaxed A-pillar that flows smoothly to the sharply slanted C pillar. A long, uninterrupted shoulder line that extends from the top of the front wheel arch all the way to the corner of the trunk serves as a contrast to the smooth arc of the roofline and gives the ES a refined sense of sportiness.

The rear of the ES is clean and sharply chiseled, with LED taillamps that wrap around the quarter panels to provide a continuous styling line from any angle. The lights feature a distinctive three-dimensional, L-shaped design that gives each cluster an eye-catching depth. Kajino's team also integrated the side of the vehicle into the rear end by drawing the shoulder and bumper corner lines into the point at the inner edge of each taillight. Finishing off the rear end is a lower valence that highlights the wide stance through the use of chrome exhaust finishers at each corner. On the F SPORT model, a trunk lid spoiler adds a tasteful hint of performance while dark accents along the taillights and lower valence are more subtle indications of its sporting nature.

A wide array of wheel designs adds the finishing touch to the new ES. The standard 17-inch wheel is a split five-spoke design with dark silver accents and a machined finish. A similar color scheme is used for the larger 18-inch 10-spoke wheel available with the Premium and Luxury packages. An additional 18-inch split five-spoke wheel design is available with the Luxury and Ultra Luxury packages that features a multi-spoke design with a high-gloss finish. The F SPORT model gets unique 19-inch wheels that are similar to those used on the LC and LS. The dual-spoke design is highlighted by a dark premium graphite coating that is also unique to the F SPORT.

A dozen colors make up the exterior paint palette including one new shade of green and a new shade of beige designed specifically for the ES. The latter is called Moonbeam Beige Metallic and was designed to mimic golden light reflecting off fresh snow, while the former, Sunlit Green, replicates the color of ocean water brightened by the sun. For the ES F SPORT, there are two exclusive colors available that reflect its high-energy design: Ultra Sonic Blue Mica 2.0 is a vivid color that reflects both bright tones and darker shades depending on the viewing angle while Ultra White is a pure, bright shade of white that contrasts perfectly with the F SPORT's dark trim.

Transformative Performance

The engineering team led by Yasuhiro Sakakibara was tasked with not only improving the performance of the ES, but transforming it. That required turning a sedan known primarily for comfort and quietness into one that is equally capable of delivering dynamic handling.

According to Sakakibara, this ES was built to deliver a fundamentally higher level of performance than any of its predecessors.

“We knew that this ES had to feel responsive and easy to drive, no matter what kind of road it was on and that can only be achieved with a solid foundation.”

That foundation is the newly developed GA-K chassis. It's an exceptionally rigid front-wheel drive chassis made from several grades of high-strength steel. The GA-K chassis also incorporates far more structural adhesives than the previous ES chassis as well as the addition of laser screw welds. A total of 785 inches of adhesive is used throughout the structure, more than twice the amount (324 in.) used previously. Laser screw welding, a construction method shared with the LS sedan, is used in 120 locations throughout the

GA-K chassis to further solidify the already robust structure. Additional measures are used to improve front-end stiffness including a strut tower brace, multiple reinforcement panels for the strut towers themselves and new radiator support braces.

Building an all-new structure also gave Sakakibara and his team the opportunity to address noise and vibrations at their source. Sound deadening insulation now covers 93% of the floor pan (up from 68%) while underbody covers and front fender liners further reduce road noise. The installation of performance dampeners is used to reduce vibrations on all Ultra Luxury and F SPORT models. The chassis-mounted dampers absorb even the smallest instances of frame compression and/or flex to keep them from generating any resonances that might generate interior cabin noise.

A Suspension That Adapts to Its Surroundings

With a solid base to build upon, Sakakibara's team turned its efforts to designing a suspension that could be tuned to deliver both exceptional comfort and precise handling. The resulting design uses MacPherson struts in front and a trailing arm, multilink setup in back with stabilizer bars at each end.

Yoshiaki Ito, chief test driver, describes the ES's heightened level of comfort and refinement by saying:

"We want every kind of driver to feel a sense of complete control when they are behind the wheel of the ES. It's a level of comfort that goes beyond merely delivering a smooth ride."

Although the design of the front suspension is similar to the previous ES, several changes have been made to improve overall responsiveness. The angle of the strut itself has been revised to better align it with the load path from the lower control arm for improved ride quality while an increase in caster angle (+2 degrees) and caster trail (+0.3 in) help to improve straight-line stability. Newly developed Dynamic Control Shocks are capable of responding to even the smallest movements thanks to a non-overlapping auxiliary valve that allows damper oil to flow in either direction before entering the main valve.

The rear suspension design utilizes a trailing arm, multilink setup that also benefits from the responsiveness of the new Dynamic Control shocks. Higher placement of the trailing arm mounting point and a larger bushing size results in better ability to help dampen road irregularities. Wider spacing of the stabilizer bushing mounts also contributes to overall roll reduction.

A new rack-assist type Electric Power Steering (EPS) system is used to deliver a more precise steering feel. Unlike the previous ES which used a steering-column-mounted assist motor, the new EPS setup mounts the assist motor directly on the steering rack which returns more precise feedback to the steering wheel. The new layout also allows for additional adjustability of the steering wheel itself with 1.2-inches of additional tilt and 1.6-inches of additional telescoping range.

The Added Control of F SPORT

On the F Sport model, an Adaptive Variable Suspension (AVS) is offered that replaces the Dynamic Control Shocks with adjustable dampers. Similar to the systems offered on the LC coupe and LS sedan, the AVS system on the ES is capable of 650 levels of adjustment to deliver optimal ride quality and precise control. Adjustments are based on information from sensors that measure both linear and vertical g loads, vehicle speed, steering angle, yaw rate and master cylinder pressure in addition to information from the engine control computer and skid control computer.

All versions of the ES offer a Drive Mode Select system that allows the driver to tailor the car's settings to varying road conditions. Models without AVS offer Eco, Normal and Sport modes while AVS-equipped cars replace Sport mode with Sport S while adding Sport S+ and Custom.

In Eco mode, fuel consumption is prioritized by reducing the engine responses to the throttle and suppressing the use of the climate control system. On non AVS cars, Sport mode quickens throttle responses, changes the transmission shift program and alters the steering assist for added control, while AVS-equipped cars only adjust the throttle and transmission settings when in Sport S mode. For more aggressive driving, Sport S+ mode adjusts the throttle, transmission and steering parameters along with the adaptive dampers. In Custom mode, drivers can choose three engine and transmission programs (Eco, Normal, Sport), two steering and suspension programs (Normal, Sport) and two climate programs (Eco, Normal).

More Power and Efficiency Through Technology

All ES 350s are powered by a 3.5-liter V6 (2GR-FKS) that is designed to deliver effortless acceleration along with impressive efficiency. The latest V6 now features the D-4S fuel injection system which uses high-pressure injectors to deliver fuel directly into the combustion chamber along with a low-pressure

system that delivers fuel to the intake ports. Together with the addition of Variable Valve Timing-intelligence Wide (VVTi-W) for the intake valves, the engine is capable of operating on either the traditional Otto cycle during sporty driving or the more efficient Atkinson cycle when power demand is low.

Multiple upgrades to reciprocating parts along with a redline increase from 6,200 rpm to 6,600 rpm results in a total of 302 horsepower at 6,600 rpm and 267 lb-ft of torque at 4,700 rpm. Both numbers are up significantly (+34hp, +19 lb-ft) compared to the previous V6. Fuel efficiency is up, too, with preliminary manufacturer estimates of 22 mpg city, 33 mpg highway and 26 mpg in combined driving.

A More Flexible Transmission for Maximum Drivability and Mileage

To complement the power of the updated V6, an all-new 8-speed Direct Shift automatic transmission is used on all ES 350s. The newly developed transmission uses an ultra-thin torque converter and a multi-plate lock up clutch to maintain a direct connection in almost all driving situations. The result is an automatic transmission that has the direct feel of a dual clutch design along with the off-the-line smoothness of a traditional torque converter automatic.

Compared to the previous 6-speed automatic, the 8-speed Direct Shift transmission has a wider range of ratios designed to return improved mileage and more responsive performance. For instance, the first gear ratio in the previous 6-speed was 3.30:1 while the new 8-speed offers a 5.51 first gear. On the high-end, the new 8-speed allows the engine to run between 250-300 rpm lower at 60 mph compared to the 6-speed thanks to a taller final drive ratio (2.56) made possible by the more flexible transmission ratios.

Although the transmission's shift programs can be altered through the Drive Mode Select system, it also uses AI Shift Control at all times to align the transmission's shift points with the driver's intentions. By constantly monitoring the vehicle speed and the throttle position, the AI Shift Control system can shift early during relaxing driving or hold gears longer when it contributes to a more engaged and predictable feel. A related system called Direct Connected Downshift allows the transmission to skip gears when large throttle openings are detected such as when making a passing maneuver on the highway.

A New Generation of Hybrid Drive

A new, fourth-generation Hybrid Drive System is used in the ES 300h. In addition to delivering stronger performance and exemplary fuel economy, the latest Hybrid Drive System has been designed to help eliminate the rubber band feeling associated with some hybrid systems.

An all-new 2.5-liter, four-cylinder gas engine (A25A-FXS) running on the Atkinson cycle is coupled with a smaller, more power dense electric motor and an all-new hybrid transaxle. The preliminary internal results are a combined 215 total system horsepower and a manufacturer estimated 44 combined mpg.

The new aluminum-intensive gas engine delivers exceptional efficiency by combining a high-speed combustion design with several variable systems designed to conserve energy. The result is an engine that has a nearly identical displacement to its predecessor, yet delivers approximately 20 additional horsepower and 12 additional pound feet of torque.

High-speed combustion is a core element of the new engine's ability to provide the most efficient use of energy. To achieve this, the cylinder bores have been narrowed slightly (3.54 in. to 3.44 in.) and the stroke lengthened (3.86 in. to 4.07) to create an optimal 1:1.2 bore-to-stroke ratio as well as reducing the distance the fuel must travel to reach the edges of the cylinder. The angle between the valves was also increased to create a more direct path for the incoming air while the intake valve seats use a laser cladding process that allows for a larger valve seat area, reduced seat face temperatures and a smoother transition from the intake port to the combustion chamber. The result is an optimized swirl pattern and the ability to run more ignition advance in lean conditions without approaching knock limits.

The new transaxle is over an inch (1.2) shorter than its predecessor thanks to a new arrangement of the electric motors that places them in a multi-axle configuration instead of the previous coaxial setup. The traditional planetary gear set has been replaced by a parallel shaft gear and a multi-function gear that incorporates a power split planetary ring gear, parking gear and counter drive gear into one compact unit.

The nickel-metal hydride battery that powers the electric motor has been relocated from the trunk to underneath the back seat. This was made possible by a 4.7-inch reduction in the height of the battery and the adoption of a more compact cooling system. Moving the battery under the seat not only frees up trunk space, it also improves the front-to-rear weight distribution of the ES for better handling.

Several new features have been incorporated into the ES 300h to improve overall driving satisfaction and engagement. The hybrid control system is now designed to deliver a more linear acceleration feel by aligning engine speed more closely with vehicle speed to reduce the rubber band feel commonly associated with hybrid systems. Engaging the Sport drive mode further enhances acceleration by boosting torque at lower speeds while paddle shifters can be used to move through six simulated gears for more precise control.

A new system called Auto Glide Control (AGC) has also been added to the ES 300h to improve efficiency when the car is in the Eco drive mode. AGC is designed to address the situation where drivers misjudge the drag imposed by regenerative brakes as they approach a stop and then move back and forth between the brake and accelerator pedals to compensate. With Auto Glide Control engaged, the ES will enter a “coast” mode when the driver releases the accelerator to allow the ES to slow at a more predictable rate and reduce the inefficiencies associated with repeated accelerator and brake applications.

The Future of Lexus Interiors

All Lexus interiors are designed to blend a driver-centric cockpit with spacious and comfortable areas for the passengers. This concept was introduced in the LC coupe, refined in the LS sedan and now expanded to the ES. Lexus calls this concept “Seat in Control,” a simple idea that says, from the moment you get in, all the controls you need are within reach and all the information you want is in plain view. Armrests slide comfortably under your elbows and buttons can be pushed without taking your hands off the wheel.

In the ES, the idea is taken a step further by placing all the main information displays within the driver’s line of sight. This includes the ultra-sharp LCD instrument panel that features a large analog tachometer, digital speedometer and easy-to-read multi-information display. Standard models use a 7-inch screen while the F-SPORT display measures 8-inches and features a movable center ring similar to the one used in the LC. Hit a button on the steering wheel and the ring slides over to open up more space for the multi-information display on the left side of the screen.

Another means to reduce driver distraction is the optional head-up display that projects relevant vehicle information onto the windshield. Fully adjustable to suit the driver’s preferred parameters, the color display

offers the largest viewable area in the luxury class. In addition to basic functionality like speed, fuel level and shift position, the heads-up display is also capable of showing of speed limit signs, lane keeping assist warnings and navigation directions.

If additional information is needed, the Lexus Multimedia System sits high on the dashboard in a position that minimizes distraction. Measuring eight inches wide on standard models and 12.3-inches wide with the available Navigation package, the Electro Multi Vision (EMV) display features crisp, easy-to-read graphics and a revised menu system. The optional navigation system blends on-board information with cloud-based data for the most accurate directions possible. The updated Remote Touch Interface (RTI) pad now has more usable surface area and vibration feedback to make it easier to use.

A More Comfortable Cabin for All

What the driver sees is also enhanced by what he or she feels, as the driving position in the ES has been refined with a more natural steering wheel angle, revised pedal positions and standard 10-way power adjustable front seats. The steering wheel itself is borrowed directly from the LS and features an ergonomically shaped rim and optional wood trim and heating elements. Heated seats are also available for the driver and front passenger along with a new suction-type ventilation system that provides improved cooling in hot weather.

Rear seat passenger comfort has long been a hallmark of the ES and the seventh-generation model builds on that legacy by maintaining its expansive accommodations. Despite the sleek roofline, headroom has been increased slightly through the use of a lower hip point and a carefully configured headliner.

Due to the reconfigured rear suspension, cargo room has been increased over the previous model. The ES now boasts 16.7 cubic feet of trunk space along with additional underfloor side pockets for smaller items. The hybrid model also offers the same cargo dimensions since the battery pack is located underneath the rear seat. An optional hands-free trunk opener has also been added to make loading cargo easier than before. Interior storage has been improved as well with the addition of a more easily accessible dual hinge center console and door bins capable of holding 20oz. drink bottles or a 9.7-inch tablet.

A Luxurious Look and Feel

In addition to the array of eye-catching paint colors available on the exterior of the ES, the interior features three color schemes, four types of trim and three different material options for the seats. The F SPORT model goes one step further with an exclusive Circuit Red color option that adds red seats and door panels for an even more dramatic look.

Along with the standard Striated Black trim, the ES offers three kinds of wood trim: Linear Dark Mocha, Linear Espresso and Matte Bamboo. There's also an all-new metallic trim that comes standard on the F SPORT model called Hadori Aluminum. Inspired by an ancient sword polishing process, Hadori Aluminum trim has a unique pattern that adds a three-dimensional appearance depending on the viewing angle. The effect is subtle yet indicative of the level of detail and craftsmanship that Kajino's team put into giving the F-SPORT a unique place in the lineup.

Technology That Connects and Simplifies

Staying connected has never been so important to ES owners, so there are now multiple ways to engage with technology in a safe and convenient manner. The new ES is the first Lexus product to offer Apple CarPlay™ phone functionality, enabling drivers to control their iPhones® through the dashboard display screen or with Siri Eyes Free® voice control. ES models with the optional 12.3-inch navigation display will offer CarPlay starting from launch, while the standard Lexus Multimedia display system will add CarPlay functionality starting with October production.

The ES is also Amazon Alexa®-enabled, so drivers with Android phones (iPhone compatibility scheduled for late 2018) can use natural language commands to control a variety of functions. That functionality includes car-to-home and home-to-car commands, so owners who have Alexa enabled devices in their home can interact with their ES before they ever get behind the wheel.

A 10-speaker Pioneer audio system comes standard on all models while a 17-speaker Mark Levinson system is available as an option. Along with 1,800 watts of power, the Mark Levinson system also brings Clari-Fi™ technology to the cabin that helps boost the sound quality of low fidelity digital audio sources.

On board Wi-Fi powered by Verizon is also standard on the ES. Lexus Enform Safety Connect is offered for first 10 years of ownership with access to Lexus Enform response centers 24/7/365. With Lexus

Enform Service Connect – also now complimentary for the first 10 years of ownership – the ES can send alerts for specific factory recommended maintenance, simultaneously alerting a preferred Lexus retailer if opted in. The MyLexusandBeyond mobile app (for iOS devices) or LexusDrivers.com website can be used to set push-reminders and alerts for maintenance and service issues.

With Lexus Enform Remote (complimentary for the first year), the customer can remotely view and control certain aspects of the ES using a mobile app for iOS and Android devices. Functions include remote door lock/unlock; remote start/stop for the engine and climate control; vehicle finder, guest driver monitor and more. Navigation is accompanied by the Lexus Enform Dynamic Navigation with a three-year trial and complimentary Lexus Enform App Suite 2.0.

Unparalleled Safety Comes Standard

One element of the ES that hasn't been radically transformed is its dedication to safety. All versions of the seventh-generation ES feature Lexus Safety System+ 2.0 as standard equipment. Already one of the most sophisticated systems of its kind, LSS+ 2.0 adds new capabilities that further expand the scenarios and the range of speeds in which it is designed to provide additional safety to the driver and passengers.

An example of such a feature is daytime bicyclist detection which is part of an enhanced Pre-Collision System (PCS) that employs both a millimeter wave radar and a monocular camera sensor. Previously designed to detect a preceding vehicle or pedestrian, the Pre-Collision System now has the potential to detect a preceding bicyclist as well. PCS has also been enhanced to help detect a preceding pedestrian in certain low-light situations by increasing the camera's sensitivity and dynamic range.

The previously available Lane Departure Assist (LDA) system remains an integral part of LSS+ 2.0. It's designed to alert the driver when it senses that the vehicle is deviating from its lane with both audible and haptic alerts. It's also capable of providing a certain amount of steering assist to help keep the car from deviating from its marked lane.

A new feature for LSS+ 2.0 is Lane Tracing Assist (LTA). Like the Lane Departure Assist system, the new Lane Tracing Assist system is designed to detect lane markings to determine lane position. If road markings are not detected, LTA is also capable, in certain conditions, of following the car ahead of it when used in conjunction with the All-Speed Range Dynamic Radar Cruise Control (DRCC) system.

An enhanced version of the All-Speed Range Dynamic Radar Cruise Control System uses a more advanced forward radar sensor that is designed to provide smoother acceleration and braking in heavy traffic. Also added is a new Road Sign Assist (RSA) feature designed to read certain road signs and display them on the multi-informational display or head-up display if equipped.

The Next Chapter of ES

The 2019 Lexus ES ushers in a new era for one of the brand's most popular models. Much like the flagship LS, the new ES sedan addresses the need to engage a broader range of customers. It delivers everything that traditional Lexus buyers expect along with elements that will draw in those who haven't considered the brand before. More dynamic styling and performance, unique cabin materials assembled by the finest craftsmen and the latest technology add a chapter to the ES story that hasn't been told, but that all changes this fall.



<i>EXTERIOR DIMENSIONS</i>		
Wheelbase		113.0 in.
Overall Length		195.9 in.
Overall Width		73.4 in.
Overall Height		56.9 in.
Tread Width	- Front	62.9 in.
	- Rear	63.4 in.

<i>INTERIOR DIMENSIONS</i>		
Seating Capacity		5
Headroom	- Front	37.5 in. (with moonroof) 37.6 in. (with panoramic roof)
	- Rear	37.8 in.
Legroom - Front		42.4 in.
	- Rear	39.2 in.
Shoulder Room - Front		55.9 in.
	- Rear	54.3 in.
Hip Room	- Front	55.0 in.
	- Rear	54.3 in.
EPA Passenger Volume		99.9 cu. ft.
EPA Cargo Volume		16.7 cu. ft.

<i>WEIGHTS AND CAPACITIES</i>		
Curb Weight		3,649 lbs.
GVWR		4,740 lbs.
Weight Distribution - Percent Front/Rear		61/39
Fuel Capacity		15.9 gal.



<i>ENGINE</i>	
Type, Materials	V6 aluminum block and cylinder heads
Designation	2GR-FKS
Valvetrain	DOHC 24-valve with Variable Valve Timing intelligence Wide VVTiW (intake), Variable Valve Timing intelligence VVTi (exhaust)
Displacement	3.5 liter (3,456 cc)
Bore x Stroke	3.70 in. x 3.27 in.
Compression Ratio	11.8:1
Horsepower (SAE)	302 hp @ 6,600 rpm
Torque	267 lb.-ft. @ 4,700 rpm
Fuel System	D-4S (direct and port injected)
Fuel Requirement	Regular 87 octane unleaded
Emission Certification	ULEV70

<i>DRIVETRAIN</i>	
Layout	Front engine, front-wheel drive
Transmission Type	8-speed Direct Shift automatic
Designation	UA80E
Gear Ratios	1 st 5.519
	2 nd 3.184
	3 rd 2.050
	4 th 1.491
	5 th 1.234
	6 th 1.000
	7 th 0.800
	8 th 0.673
	Reverse 4.222
Final Drive Ratio	2.561



CHASSIS AND BODY	
Body/Frame	Unitized steel body/frame structure
Suspension	- Front MacPherson strut-type independent suspension - Rear Trailing arm multilink independent suspension
Steering - Type	Rack mounted electric rack and pinion
- Turns (lock to lock)	2.7 (2.6 w/18" or 19" wheels/tires)
- Turning Radius (curb to curb)	19.0 ft. (19.4 w/18" or 19" wheels/tires)
Brakes	- Type Four-wheel power-assisted disc brakes with ABS, Electronic Brakeforce Distribution (EBD), Brake Assist (BA), Traction Control (TRAC) and Vehicle Stability Control (VSC) - Front 12.0 in. ventilated disc - Rear 11.1 in. solid disc
Anti-lock Braking System	4 channel, 4 sensor
Wheel Size/Type	17 x 7.5J split 10-spoke aluminum alloy w/machine finish
- Optional	18 x 8J split 10-spoke high gloss aluminum alloy w/machine finish 18 x 8J multi-spoke aluminum alloy w/Hyper Chrome coating 19 x 8J split spoke aluminum alloy w/dark premium metallic coating
Tire Size/Type	215/55R17 all-season tire
- Optional	235/45R18 all-season tire 235/40R19 all-season tire
Tire Brands	Michelin and Bridgestone

PERFORMANCE	
0-60 mph Acceleration (mfr. estimate)	6.6 sec
Top Track Speed (mfr. estimate)	131 mph (electronically limited)
Manufacturer Estimated Fuel Economy (City/Hwy/Combined)	22/33/26 (ES 350) 22/31/25 (ES 350 F SPORT)
Coefficient of Drag (Cd)	0.29 (.26 F SPORT)



<i>EXTERIOR DIMENSIONS</i>		
Wheelbase		113.0 in.
Overall Length		195.9 in.
Overall Width		73.4 in.
Overall Height		56.9 in.
Tread Width	- Front	63.0 in.
	- Rear	63.4 in.

<i>INTERIOR DIMENSIONS</i>		
Seating Capacity		5
Headroom	- Front	37.5 in. (with moonroof)
	- Rear	37.4 in.
Legroom - Front		42.4 in.
	- Rear	39.2 in.
Shoulder Room - Front		55.9 in.
	- Rear	54.0 in.
Hip Room	- Front	55.0 in.
	- Rear	54.3 in.
EPA Passenger Volume		97.4 cu. ft.
EPA Cargo Volume		16.7 cu. ft.

<i>WEIGHTS AND CAPACITIES</i>		
Curb Weight		3,704 lbs.
GVWR		4,740 lbs.
Weight Distribution - Percent Front/Rear		59/41
Fuel Capacity		13.2 gal.



<i>ENGINE</i>	
Type, Materials	In-line 4-cylinder aluminum block and cylinder heads
Designation	A25A-FXS
Valvetrain	DOHC 16-valve with Variable Valve Timing intelligence Electric (VVTiE)
Displacement	2.5 liter (2,487 cc)
Bore x Stroke	3.44 in. x 4.07 in.
Compression Ratio	14.0:1
Total Horsepower	215 hp (176hp engine + 39hp battery)
Horsepower (SAE)	176 hp @ 5,700 rpm
Torque	163 lb.-ft. @ 3,600-5,200 rpm
Fuel System	D-4S (direct and port injected)
Fuel Requirement	87 octane unleaded
Emission Certification	SULEV30

<i>HYBRID BATTERY</i>	
Battery Power	29.1kW/39 hp
Battery Type	Nickel-metal Hydride
Nominal Voltage	244.8
Number of cells	204
System Voltage	244.8

<i>DRIVETRAIN</i>	
Layout	Front engine, front-wheel drive
Transmission Type	Electronically Controlled Continuously Variable Transmission
Designation	P710
Gear Ratios	
Forward	0.402
Reverse	4.222
Motor Reduction Ratio	3.389
Final Drive Ratio	3.389



<i>CHASSIS AND BODY</i>	
Body/Frame	Unitized steel body/frame structure
Suspension	- Front MacPherson strut-type independent suspension - Rear Trailing arm multilink independent suspension
Steering - Type	Rack mounted electric rack and pinion
- Turns (lock to lock)	2.7 (2.6 w/18" wheels/tires)
- Turning Radius (curb to curb)	19.0 ft. (19.4 w/18" wheels/tires)
Brakes	- Type Four-wheel power-assisted disc brakes with ABS, Electronic Brakeforce Distribution (EBD), Brake Assist (BA), Traction Control (TRAC) and Vehicle Stability Control (VSC) - Front 12.0 in. ventilated disc - Rear 11.1 in. solid disc
Anti-lock Braking System	4 channel, 4 sensor
Wheel Size/Type	17 x 7.5J split 10-spoke aluminum alloy w/machine finish
- Optional	18 x 8J split 10-spoke high gloss aluminum alloy w/machine finish 18 x 8J multi-spoke aluminum alloy w/Hyper Chrome coating
Tire Size/Type	215/55R17 all-season tire
- Optional	235/45R18 all-season tire
Tire Brands	Michelin and Bridgestone

<i>PERFORMANCE</i>	
0-60 mph Acceleration (mfr. estimate)	8.1 sec
Top Track Speed (mfr. estimate)	112 mph (electronically limited)
Manufacturer Estimated Fuel Economy (City/Hwy/Combined)	44/45/44
Coefficient of Drag (Cd)	0.26

STANDARD EXTERIOR FEATURES

- 17-inch alloy wheels with split ten-spoke design (215/55R17 all-season tires)
- LED high/low beam projector headlamps
- L-shaped LED daytime running lights
- Dark Gray vertical grille with satin surround (ES 350, ES 300h)
- Jet Black grille with metallic surround (F SPORT)
- Power moonroof
- LED taillights
- Rear spoiler (ES 300h, F SPORT)
- Chrome exhaust finishers
- Exterior colors (10): Matador Red Mica, Eminent White Pearl, Silver Lining Metallic, Nebula Gray Pearl, Obsidian, Nightfall Mica, Atomic Silver, Caviar, Moonbeam Beige Metallic, Sunlit Green

STANDARD INTERIOR FEATURES

- Perforated NuLuxe Interior trim (Chateau, Flaxen, Black)
- 10-way power adjustable front seats
- Smart access with push button start/stop
- 7-inch Thin Film Transistor (TFT) LCD instrument panel display (8-inch on F SPORT)
- Dual-zone climate control with interior air filters, smog sensor and automatic recirculation mode
- Drive Mode Select
- 14.6-inch, three-spoke, leather wrapped steering wheel with paddle shifters
- Leather wrapped shift lever
- Analog clock
- Illuminated entry system: front and rear seating areas, engine start button, driver and front passenger foot-well areas and exterior mirror puddle lamps
- 3 USB ports (1 front, 2 rear)
- First aid kit

STANDARD AUDIO SYSTEM

- Lexus Premium Sound System with ten speakers
- Aux and USB audio input plugs
- Bluetooth® streaming audio
- CD player
- HD Radio™ with iTunes tagging
- Integrated SiriusXM® Satellite Radio receiver (complimentary 90-day trial subscription)
- Remote Touch Interface Controller with back button

MULTIMEDIA

- Lexus Multimedia System with 8.0-inch color display and Scout GPS Link with MapStream and TurnStream. Complimentary for up to the first 3 years of ownership
- Lexus Enform App Suite 2.0 Amazon Alexa compatible
- Lexus Enform Wi-Fi with complimentary 4GB one-year trial included
- Lexus Enform Remote app and Amazon Alexa compatibility complimentary during first year of ownership
- Home screen divided into three customizable sections (HVAC, audio, traffic)
- Voice Command, Siri Eyes Free, Google Voice Control
- Bluetooth® hands free phone and automatic phonebook download capabilities
- Subscription free Traffic and Weather updates via HD Radio

STANDARD SAFETY AND SECURITY

- Lexus Safety System+ 2.0
 - Pre-Collision System with oncoming vehicle detection, low light pedestrian detection, daytime bicyclist detection
 - High-Speed Dynamic Radar Cruise Control with Road Sign Assist (RSA)
 - Lane Tracing Assist (LTA)
 - Lane Departure Alert with steering assist and road edge detection
 - Intelligent High Beam (IHB)
 - Parking Support Alert (PKSA)
 - Lexus Enform Safety Connect and
 - 10 air bags
- Entry system with lock, two-stage unlock, trunk open and “panic” features, volume adjustable confirmation tone and rolling code technology
- Headlight-off delay feature (after locking vehicle, headlights remain illuminated for approximately 30 seconds before automatically shutting off)
- Remote-activated, SmartAccess-linked illuminated entry (dome-light illuminates when doors are unlocked, remains illuminated for 15 second)
- Lexus Enform Safety Connect (complimentary for the first 10 years) with Automatic Collision Notification, Stolen Vehicle Location, Emergency Assist Button, and Enhanced Roadside Assistance.
- Lexus Enform Service Connect complimentary for the first 10 years with Vehicle Health Report, Maintenance & Vehicle Alerts

FACTORY OPTION PACKAGES

- Premium Package
 - Power tilt/telescoping steering wheel w/memory
 - Heated and ventilated seats
 - Driver seat memory
 - Rain sensing wipers
 - Side mirrors w/memory and reverse tilt

- Luxury Package (includes Premium Package in addition to the following):
 - Genuine leather seating
 - 10-way power driver and front passenger seats
 - Ambient interior lighting
 - Wood door, console and instrument panel trim
 - Heated external mirrors with memory
 - Acoustic side glass

- Ultra Luxury Package (includes Luxury Package in addition to the following):
 - Semi-aniline leather seats
 - Power rear sunshade
 - Manual rear door sunshades
 - Front and rear performance dampers
 - Hands free power trunk opener

- F SPORT Package (includes the Premium package in addition to the following):
 - Hadori aluminum interior trim
 - 19-inch split spoke wheels with 235/40/R19 all-season tires
 - F SPORT front seats
 - F SPORT pedals
 - Active Noise Control
 - Front and rear performance dampers
 - Rear spoiler
 - 8-inch TFT instrument panel display
 - F SPORT gauges with movable display ring
 - F SPORT grille with dark surround
 - F SPORT analog clock
 - F SPORT shift lever and knob

STAND ALONE FACTORY OPTIONS*

- Wood-trimmed steering wheel
- Heated wood-trimmed steering wheel
- F SPORT steering wheel (F SPORT only)
- F SPORT steering wheel with heating (F SPORT only)
- Adaptive Variable Suspension (F SPORT only)
- Wood interior trim
- Panoramic sunroof
- Hands free power trunk lid
- Triple beam LED headlights with Adaptive Front lighting System (AFS)
- Power rear sunshade
- Head Up Display
- Mark Levinson audio
- Navigation (12.3-inch display)
- Navigation + Mark Levinson audio
- Qi wireless charging pad
- Blind spot monitor
- Park assist sonar
- Park assist sonar with pedestrian detection and panoramic view monitor
- 18-inch wheels with machine finish
- 18-inch noise reduction wheels with hyper chrome finish

*some options only available in conjunction with other options and/or packages

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Lexus' passion for brave design, imaginative technology, and exhilarating performance enables the luxury lifestyle brand to create amazing experiences for its customers. Lexus began its journey in 1989 with two luxury sedans and a commitment to pursue perfection. Since then, Lexus has developed its lineup to meet the needs of global luxury customers in more than 90 countries. In the United States, Lexus vehicles are sold through 240 dealers offering a full lineup of luxury vehicles. With six models incorporating Lexus Hybrid Drive, Lexus is the luxury hybrid leader. Lexus also offers six F SPORT models and two F performance models. Lexus is committed to being a visionary brand that anticipates the future for luxury customers.

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Contact:

Nancy Hubbell, nancy.hubbell@lexus.com, 469-292-4954

Ed Hellwig, edward.hellwig@lexus.com, 469-292-1165