



2020 LS 500h Specifications

Note: All specs are for both all-wheel drive (AWD) and rear-wheel drive (RWD) unless otherwise noted.

EXTERIOR DIMENSIONS		
Wheelbase		123 in.
Overall Length		206.1 in.
Overall Width		74.8 in.
Overall Height	RWD	57.1 in. - Air suspension 57.5 in. - Coil w/AVS
	AWD	57.5 in. - Air suspension 57.9 in. - Coil w/AVS
Tread Width - Front	RWD	64.2 in.
	AWD	64.2 in. - Coil w/AVS 64.4 in. - Air suspension
- Rear	RWD	64.4 in.
	AWD	64.4 in.
Ground Clearance	RWD	5.8 in. - Air suspension 6.6 in. - Coil w/AVS
	AWD	5.8 in. - Air suspension 6.3 in. - Coil w/AVS

INTERIOR DIMENSIONS	
Seating Capacity	5
Headroom	
With Moonroof	37.3 in.
- Front	37.3 in.
- Rear	
With Panorama roof	
- Front	36.8 in.
- Rear	36.4 in.
Legroom	
With Moonroof	
- Front	41.0 in.
- Rear	38.9 in.
With Panorama roof	
- Front	41.04 in.
- Rear	38.9 in.
Shoulder Room - Front	58.8 in.
- Rear	56.4 in.
Hip Room - Front	55.5 in.
- Rear	55.1 in.



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Passenger Volume	
- With Moon roof	99.397 cu ft ³
- With Panorama roof	97.556 cu ft ³
Cargo Volume	
	15.185 cu ft w/o rear cooler (0.43m ³ / 430L)
	14.126 cu ft w/rear cooler (0.44 m ³ / 400L)

WEIGHTS AND CAPACITIES	
Curb Weight	
RWD	4,916 lb. - Air suspension 4,883 lb. - Coil w/AVS
AWD	5,104 lb. - Air suspension 5,060 lb. - Coil w/AVS
with Executive Package	
RWD	5,060 lb.
AWD	5,247 lb.
GVWR (in lbs.)	
RWD	6,020 lb.
AWD	6,205 lb.
Weight Distribution (front/rear)	51/49
Fuel Capacity	22.2 gal. (84L)

HYBRID POWER SYSTEM	
Type	Series/parallel system with gas engine and electric motors
Total System Power	264 kW / 354 HP / 359PS
ENGINE	
Type	V6, aluminum block and cylinder heads
Designation	8GR-FXS
Valvetrain	DOHC 24 Valve Intake: VVT-iW (variable valve timing with intelligence Wide) Exhaust: VVT-i (variable valve timing with intelligence)
Displacement	3.5 liters / 3,456 cc / 210.9 cu. in.
Bore x Stroke	3.70 x 3.27 in. (94.0 mm x 83.0 mm)
Compression Ratio	13.0:1
Horsepower (SAE)	295 @ 6,600 rpm
Total System Output (hp)	354



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Fuel System	EFI (Electronic Fuel Injection), D-4S (Direct injection 4-stroke gasoline engine Superior)
Fuel Requirement	91 Octane or higher
Emission Certification	LEV III-SULEV30 SULEV with OBD, Tier3 with OBD, CARD OBD II
ELECTRIC MOTORS	
Motor Generator 1 (MG1) Function	Primary generator, engine starter, controls engine speed
Type	Permanent magnet motor
Cooling system	Water-cooled
Motor Generator 2 (MG2) Function	Drives rear wheels; regenerative braking
Type	Permanent magnet motor
Cooling system	Water-cooled
HYBRID BATTERY PACK	
Type	Lithium-ion
Cell Quantity	84 cells
Nominal Voltage	310.8 V
System Voltage	650 V

DRIVETRAIN													
Layout	Front engine, rear-wheel drive or all-wheel drive												
Transmission Type	Multi Stage Hybrid Transmission												
Designation	L310 (RWD) / L310F (AWD)												
Gear Ratios	<table border="0"> <tr> <td>1st</td> <td>3.538</td> </tr> <tr> <td>2nd</td> <td>1.888</td> </tr> <tr> <td>3rd</td> <td>1.000</td> </tr> <tr> <td>4th</td> <td>0.650</td> </tr> <tr> <td>Rev.</td> <td>N/A</td> </tr> <tr> <td>Differential Gear Ratio (Front/Rear)</td> <td>RWD: (- /3.615) AWD: (3.916 / 3.916)</td> </tr> </table>	1 st	3.538	2 nd	1.888	3 rd	1.000	4 th	0.650	Rev.	N/A	Differential Gear Ratio (Front/Rear)	RWD: (- /3.615) AWD: (3.916 / 3.916)
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CHASSIS AND BODY	
Body/Frame	Steel unibody construction
Suspension - Front and rear	Front: High Mount Multi-link, double joint; Rear: Multi-link
Steering - Turns, Lock to Lock - Turning Circle (curb to curb)	Electric Power Steering (EPS): Vehicle speed-sensing rack and pinion with electric power assist RWD: 2.9, AWD: 2.8 RWD: 36.8 ft., AWD: 39.4 ft.
Brakes/Type - Front - Rear	Anti-lock Braking System (ABS); Electronic Brakeforce Distribution (EBD); Brake Assist (BA) 14.0 in. (357mm) ventilated rotors with four-piston opposed aluminum calipers, high-friction brake pads 13.1 in. (335mm) ventilated rotors with two-piston opposed aluminum calipers, high-friction brake pads
Wheel Size/Type	19 in. (cast aluminum - standard) 20 in. (cast aluminum, resonator / forged aluminum - available)
Tire Size/Type	245/50RF19 245/45RF20
Tire Brand(s)	Bridgestone, Dunlop, Michelin

PERFORMANCE	
0-60 mph Acceleration (manuf. estimate)	5.1 seconds (RWD) 5.2 seconds (AWD)
Top Track Speed (electronically limited)	136 mph (220 km/h)
Manufacturer-estimated Fuel Economy*	
RWD	City 25 mpg/ Highway 33 mpg/ Combined 28 mpg
AWD	City 23 mpg/ Highway 31 mpg/ Combined 26 mpg
Coefficient of Drag (Cd)	0.27, 0.28 (AWD)

*Actual mileage will vary

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Standard Exterior Features

- Triple-projector ultra-compact LED headlamps with cornering lamps
- LED taillamps and turn signals
- Rain-sensing windshield wipers
- Electrochromic (auto-dimming) inside and outside mirrors with puddle lamps
- Hands-free power open/close trunk
- Auto door closer
- 19-inch alloy wheels
- Power moonroof

Standard Interior Features

- Heated leather-trimmed steering wheel w/paddle shifters
- 16-way power-adjustable heated and ventilated front seats
- Power-adjustable front headrests
- Dual-zone climate control
- Power rear sunshade
- Drive Mode Select with Sport S+ and Custom modes
- Intuitive Parking Assist with auto-braking
- Vehicle Dynamics Integrated Management
- Lexus Enform Wi-Fi. Complimentary 4GB one-year trial is included.
- Lexus Enform Remote app and Destination Assist. Complimentary for the first year of ownership.
- Lexus Enform App Suite 2.0
- Lexus Enform Dynamic Navigation. Complimentary for the first three years of ownership.
- Navigation System with 12.3-in color LCD multimedia display
- Active Sound Control
- Active Noise Cancellation
- Remote Touchpad
- Dynamic Voice Command with Bluetooth® and USB smartphone connectivity
- SmartAccess with push-button Start/Stop

Standard Audio System

- Lexus 12-speaker Premium Audio System
- 8-channel 300-watt class-D amplifier
- Digital signal processing with Automatic Sound Levelizer (ASL)

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- HD Radio™ (complimentary traffic and weather)
- Apple CarPlay Compatibility and Amazon Alexa Compatibility
- Integrated SiriusXM® Satellite Radio receiver (complimentary 90-day trial subscription included)
- Single-disc CD/MP3/WMA player

Multimedia and Connected Services

- Navigation with 12.3-inch high-resolution display with full-screen map capability including 3D rendering
- Home screen divided into three sections (customizable for HVAC, audio, traffic, MID)
- Dynamic Voice Command
- Speed limit display on road traveled
- Cache Radio; ability to pause live AM/FM radio and HD Radio (up to 15 minutes)
- Traffic and Weather data provided via HD Radio (free to all users while in HD Radio range)

Standard Safety and Security

- Lexus Safety System+ 2.0 standard
 - Pre-Collision System with low-light pedestrian detection and daytime bicyclist detection
 - Lane Departure Alert with Steering Assist
 - Intelligent High Beam
 - All-speed Adaptive Cruise Control
 - Road Sign Assist
 - Lane Tracing Assist
- Location specific Tire Pressure Monitor System (TPMS)
- Complimentary for the first ten years, Lexus Enform Safety Connect includes an Emergency Assistance Button (SOS), Roadside Assistance, Automatic Collision Notification, and Stolen Vehicle Notification. The Lexus Enform response center operates 24/7/365.

Individual Factory Options

- Art Wood Organic, Art Wood Herringbone and Laser Special premium wood trims
- Heated wood- and leather-trimmed steering wheel
- Premium LED headlamps with Adaptive Front Lighting System
- Adaptive Variable Air Suspension with rapid height function
- Mark Levinson 23-speaker, 2,400-watt Quantum Logic Immersion Reference Surround Sound Audio System
- 24-in Head-Up Display
- Panoramic View Monitor

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- 19-in split-10-spoke alloy noise-reduction wheels with high-gloss finish
- 20-in split-10-spoke alloy noise-reduction wheels with Vapor Chrome finish
- 20-in split-five-spoke forged alloy wheels with polished finish

Factory Option Packages

- Interior Upgrade Package
 - Quilted-stitch perforated semi-aniline leather interior trim
 - 28-way power-adjustable driver's seat with multifunction massage
 - Ultrasuede headliner and sun visors
 - Wood- and semi-aniline leather-trimmed center console
 - Semi-aniline leather-trimmed door armrests
 - Heated rear seats
- Luxury Package
 - 28-way power-adjustable passenger seat with multifunction massage and cushion extender
 - Remote adjustment for passenger seat
 - 18-way power-reclining outboard rear seats with memory
 - Four-zone Climate Concierge with climate-comfort front and outboard rear seats, infrared sensors and air purifier
 - Power side-window sunshades
 - Semi-aniline leather-trimmed rear armrest with 7.0-in touchscreen controller
 - Rear-seat knee airbags
- Executive Package with Kiriko Glass (includes Luxury Executive Package features plus the following)
 - Butterfly power-retractable front headrests
 - 22-way power-adjustable rear seats with butterfly headrests, memory and multifunction massage with heat
 - Right-rear power recliner with sliding ottoman
 - Kiriko Glass interior door trim
 - Hand-pleated interior door trim
- Lexus Safety System+ A Package
 - Lexus CoDrive with enhanced All-Speed Dynamic Radar Cruise Control and Lane Change Assist.
 - Pre-Collision System with Active Braking, Active Steering Assist, Front Lateral Side Detection and Head-Up Display integration.
 - Pedestrian Alert
 - Front Cross Traffic Alert