

# 2010 LX 570 Luxury Utility Vehicle Receives Technology and Entertainment Updates

August 14, 2009

- iPod®/USB Connectivity, Streaming Audio Standard
- Equipped with Lexus Enform™ with Safety Connect™ Telematics Hardware
- Luxury Features With Legendary Capability

Updates to navigation, audio, safety and entertainment systems keep the eight-passenger LX 570 premium luxury utility vehicle at the top of its segment with technology enhancements for 2010.

To further enhance the driving experience, the LX's standard Lexus Navigation System has been updated and includes Lexus Enform™, Voice Command casual-language voice recognition and Bluetooth® phonebook download. The optional Wide-view Front and Side Monitor screen has also been revised. Lexus Navigation system comes available with XM® NAVTraffic®/Weather™/Sports/Stocks functionality (complimentary 90-day trial subscription included).

The Lexus Premium Sound System adds an integrated satellite radio receiver, iPod®/USB connectivity and streaming music via Bluetooth®. Safety Connect™ which includes automatic collision notification, stolen vehicle location and emergency and roadside assistance is standard with a complimentary one-year trial subscription on the 2010 LX.

The optional Rear Seat Entertainment adds 3D icons and LED backlight to enhance display and layout.

## **Engine/Transmission/Drivetrain/Performance**

The LX 570's 5.7-liter V8 delivers the punch and towing power demanded in this segment. The powerplant produces 383 horsepower at 5,600 rpm and peak torque of 403 lb.-ft at 3,600 rpm. Crucial to LX customers who tow with their vehicles, 90 percent of peak torque is available at just 2,200 RPM.

The V8's advanced Dual Variable Valve Timing with intelligence (VVT-i) system controls valve timing and overlap on both the intake and exhaust valves, which helps to optimize power, fuel efficiency and emissions. The Acoustic Control Induction System (ACIS) switches the length of the intake tract in two stages, based on RPM and throttle angle, to improve torque across the engine speed range. Tubular stainless steel headers flow into a full stainless steel exhaust system.

The LX 570's six-speed automatic transmission is designed to handle high torque while performing with Lexus quietness and smoothness. The electronically-controlled transmission's control unit estimates road conditions and predicts the driver's intention to select the appropriate gear ratio for the vehicle's speed and the driving conditions. A sequential shift mode allows the driver to select gears manually. Even at very low speeds, such as trail driving, the transmission operates smoothly and imperceptibly.

The LX 570's transfer case provides full-time four-wheel drive that is equally adept at handling the rigors of slippery winter weather or deep mud or snow. A 2.618:1 low-range ratio is available for challenging driving surfaces. The system uses a TORSSEN<sup>®</sup> limited-slip locking center differential to distribute power 40:60 front-to-rear, directing more power to the wheels with the best grip should slippage occur. Four-wheel Active Traction Control (A-TRAC) employs both brake and throttle intervention to help control wheel spin. Vehicle Stability Control (VSC) helps maintain directional control during cornering and can be disengaged via the "TRAC off" switch.

The Crawl Control feature provides improved throttle modulation when maneuvering over rough, uneven or difficult surfaces. When the transmission is shifted into low range, Crawl Control regulates engine speed and output, along with braking force, to propel the vehicle forward or in reverse at one of three low-speed settings. Crawl Control also actuates a set of virtual locking differentials to help reduce tire slippage and optimize chassis behavior.

Without canceling Crawl Control mode, the driver can reduce vehicle speed by braking or adjust the crawling speed with a selector switch. Hill-start Assist Control (HAC) helps provide additional control for off-road driving by helping to keep the vehicle from rolling back while starting on a steep incline or slippery surface.

### **Chassis/Body/Suspension/Tires/Brakes**

The LX 570's highly capable chassis is equipped with an advanced suspension system. Body-on-frame construction provides ruggedness and durability in extreme driving conditions, plus impressive towing capability and ride isolation characteristics. Towing capacity is 8,500 pounds. An electro-hydraulic system with four-wheel Active Height Control (AHC) and Adaptive Variable Suspension (AVS) reacts more quickly and allows for a greater range of adjustment than the system used in the previous LX model.

Applying advanced computer aided engineering and lightweight components, engineers developed a frame structure that uses lightweight, high-strength steel. The frame was tested over some of the worst roads in Australia, plus desert areas of the U.S. and other parts of the world in conditions where other SUVs could not go. The body utilizes welded high-strength sheet steel, especially in the A-, B-, C- and D-pillars and in the rocker area to reduce weight and increase rigidity.

The high-mount, independent double-wishbone front suspension allows for nine inches of total front wheel travel – four on the jounce stroke and five on rebound – for outstanding articulation over rough roads and obstacles. The power-assisted rack-and-pinion steering uses a variable gear ratio that requires just 2.4 turns to go from lock-to-lock.

The four-link trailing-arm rear suspension retains the solid-axle configuration for strength and durability. Suspension geometry helps promote control, and spring and damper rates are optimized for ride smoothness. The new-generation Lexus LX 570 introduced a vehicle “posture control” system with Lexus advanced technology, including Four-Wheel AHC + AVS (Active Height Control + Adaptive Variable Suspension).

The LX 570 suspension system helps enhance on-road handling by reducing body sway by more than 30 percent and by suppressing dive and squat during cornering, braking or acceleration. The compression chambers of the shock absorbers are diagonally linked (front left shock linked to rear right, and front right linked to rear left) by a center-control valve. Passing small body motions from front-to-rear increases overall vertical suspension damping. A spring-rate switch control in the front shock absorbers stiffens or loosens the air spring rate in two steps. When cruising on the highway, for example, the spring rate is loosened for better ride comfort.

The Active Height Control system lowers the chassis by about two inches for easy entry and exit and returns automatically to its normal height when the vehicle begins to accelerate. Vehicle height automatically lowers within two seconds of switching off the ignition when the vehicle is stopped. An Easy Access mode allows the driver to also lower the vehicle while it is parked. For improved aerodynamics, the AHC system lowers the vehicle by nearly one inch in front and by a little more than a half inch in the rear at highway speeds. When the transfer case is shifted into low range, AHC raises the vehicle by approximately three inches to provide additional ride height in driving situations where chassis clearance is at a premium.

The Adaptive Variable Suspension system responds to the different inputs and spring rates, and it adjusts the shock absorber damping force to provide optimal handling and comfort for on-road or trail driving. AVS provides three modes to control the spring rate and shock absorber damping force.

Comfort mode provides a softer response on extremely bumpy roads, while the Normal and Sport modes help provide increasingly greater levels of control for driving a heavily loaded vehicle, driving at higher speeds on paved roads, or driving on unpaved roads.

The standard ten-spoke, 20-inch alloy wheels wear 285/50R20 tires. A direct tire pressure monitor system notifies the driver of a critical drop in air-pressure in any of the tires, including the full-size spare tire.

The LX 570’s brake system utilizes 13.4-inch ventilated discs and four-piston calipers up front and 13.6-inch ventilated discs at the rear. The multi-terrain ABS system determines road-surface conditions and automatically

optimizes lock-up control, selecting the suitable ABS profile for on- and off-road driving surfaces. Electronic Brake-force Distribution (EBD) employs the ABS to properly balance braking forces between the front and rear wheels, while Brake Assist (BA) provides auxiliary force to assist the driver during emergency braking.

### **Safety/Security Features**

The front of the LX 570 frame integrates a three-stage crush structure to help reduce frame damage to other areas of the vehicle in a frontal impact. The patented design can disperse collision force from the main side members to the floor frame members, helping to reduce deformation in the passenger compartment.

The LX 570 is equipped with 10 standard airbags, including driver- and front-passenger knee airbags, front and second-row seat-mounted side airbags in the outboard seating positions, and side curtain airbags for all three rows. All eight seating positions feature three-point seatbelts. The second-row seatbelts integrate pre-tensioners for the outboard seats and an ELR (Emergency Locking Retractor) seatbelt for the center seat.

The LX 570 is the first vehicle in its class to use Active Front Headrests which move up and forward almost instantly in the event of certain rear-end collisions when the force of the occupant's body is applied to the seat back. The standard dual-swivel Adaptive Front lighting System (AFS) helps to illuminate a turn or curve as the driver steers into it.

The LX 570 is also the first in its class to offer a Pre-Collision System with Dynamic Radar Cruise Control. In addition, LX 570 is the first Lexus to offer the optional Wide-view Front and Side Monitor feature designed for use in tight settings, such as parking garages. With cameras located within the front grille and under the passenger outside mirror, the driver can check hard-to-view areas by simply pressing a button on the dashboard and viewing the camera images on the standard navigation system screen. The Wide-view Front and Side Monitor functions up to a vehicle speed of about 7.5 mph and displays the front and side views simultaneously in split-screen mode.

### **Luxury/Comfort/Convenience**

The standard power rear door, Smart Access keyless entry system with push-button start, headlamp washers and a front windshield wiper de-icer provide all-weather convenience. A full array of standard luxury amenities includes, four-zone independent climate control, updated Lexus Navigation System, nine-speaker Lexus Premium Sound system with iPod/USB connectivity, front-seat power-seat cushion extenders, and a rear back-up camera.

With 28 total air vents, the climate control system is designed to bathe occupants in comfortable air, even during extreme heat, rather than simply project streams of cool air at them. For colder weather, the LX 570 is equipped with an auxiliary Positive Temperature Coefficient (PTC) heater. The PTC heater warms air by passing it over an electrically heated ceramic element.

## **Luxury Options**

The LX 570 offers an optional Luxury Package that includes a cool box for beverages; semi-aniline leather-trimmed upholstery; African Bubinga wood trimmed steering wheel, shift knob and rear center console lid; heated and ventilated front seats and heated second-row seats; Smart Access and Liquid Graphite finished wheels.

In addition to the Luxury Package, the LX 570's option list includes climate-controlled front seats and heated second-row seats, and entertainment systems. The available rear-seat entertainment system plays DVDs and uses a nine-inch wide-format screen. For audiophiles, a 19-speaker Mark Levinson® Reference Surround Sound audio system is also available with 450-watts maximum power and 15 channels.

## **Exterior Design**

The LX 570 luxury utility vehicle adopts characteristics of the brand's L-finesse design theme. A wide stance and muscular cabin proportions are accented with subtle character lines and luxury touches such as chrome-plated door handles and moldings. The wide grille, with its "arrowhead" corner treatment, character lines integrated into the bumper, and large projector headlights convey a distinctly purposeful look. Pronounced wheel arches add an element of ruggedness to the elegant profile. Standard running boards fit closely to the body for an integrated appearance.

Wide rear combination lights emphasize the large size of the sculpted rear door. They employ high-intensity LEDs and a specially designed diffusion pattern to project "radiance" and to give drivers following behind ample visibility of the LX 570. Tasteful chrome accents set off the lights and the license plate surround.

## **Interior Design**

The LX 570, while occupying the same footprint as the previous LX 470 model, provides ample front seat legroom. The result is an even more inviting and comfortable space for up to eight passengers and their cargo. Optitron® instrument gauges are a traditional and functional Lexus design feature.

The first-in-class standard power-sliding second-row seat slides forward and aft 4.1 inches for passenger comfort and cargo storage versatility. The second-row seatbacks provide a convenient 40/20/40 split. The second row seat is specially engineered to make tumbling it forward easy for anyone – with Lexus fluid smoothness. A power retractable third-row seat is standard. The split rear tailgate features a power upper door, while the bottom section raises and lowers with minimal effort.

## **Lexus Enform™ with Safety Connect™**

The Lexus LX 570 offers an all-new telematics system, Lexus Enform™ with Safety Connect™, available by subscription. A complimentary one-year trial subscription is included on the purchases of all new LX vehicles. Both the Lexus Enform and the Safety Connect response center operate 24 hours a day, 7 days a week—every day of the year.

Safety Connect, the cornerstone of the services, is available on the LX 570 and offers four safety and security features: Automatic Collision Notification, Stolen Vehicle Location, Emergency Assistance Button (SOS), and Enhanced Roadside Assistance, which adds GPS data to the already included warranty-based Lexus roadside service.

Lexus Enform includes all of the Safety Connect features and builds upon them with the premium services of Destination Assist and eDestination. Destination Assist agents are available via the on-board cellular equipment and can help drivers find a specific address, a business by name, or a type of business (e.g., gas station, movie theater, etc.), and even Zagat®-rated restaurants, and then send the coordinates to the navigation system for routing. With eDestination, drivers can go online via LexusDrivers.com to save and sort destinations in up to 20 folders, each holding as many as 10 destinations. Then drivers can send the locations—up to 200 at a time—to their vehicle, where they will be available for download into the navigation system. Online, drivers can create personalized location names (e.g., “Favorite sushi,” “1 PM Appt,” “Kids’ doc,” etc.) and even list notes about their saved locations, all helping them see exactly the information they choose in the vehicle.

Lexus Insider™, a complimentary, opt-in service is also available without a subscription on all Lexus Enform-equipped vehicles. This feature offers in-vehicle audio casts that provide owners access to useful vehicle tips and event information, and insights into exclusive owners’ benefits – all designed to further enhance the Lexus experience.

## **XM – Beyond Radio**

Lexus Enform vehicles are factory ready for subscriptions to a variety of innovative XM services. An integrated XM® satellite radio receiver is standard. Additionally, Lexus Enform vehicles feature XM NavTraffic® and XM NavWeather™ services. XM NavTraffic informs the driver of current traffic conditions with real-time traffic displays. When traffic problems are detected the navigation system alerts the driver so that the route can be adjusted. XM NavWeather provides near real-time weather conditions as well as spoken and nav-screen forecasts, both based on official National Weather Service data.

Lexus Enform also provides the platform for XM® Sports and Stocks, which features in-vehicle updates on sports and stocks so drivers can stay connected to their favorite teams and investment data while on the road. XM Sports provides game results and schedules for up to five personally selected national league sports teams while XM Stocks supplies data for up to 10 personally selected stocks. After inputting their selections, drivers can access the reports either by the navigation system, or by using the voice command system, adding a new level of flexibility.

XM services require separate XM subscriptions. The XM Sports and Stocks service is included with an XM<sup>®</sup> radio subscription. All XM services offer complimentary 90-day trial subscriptions.

### **Warranty**

All new Lexus vehicles come with a 48-month/50,000-mile basic limited warranty with roadside assistance for 48-months/unlimited miles. Powertrain and restraint system coverage is provided for 72 months/70,000 miles. Corrosion perforation protection is covered for 72 months, regardless of mileage.