

2010 GS Sedans Receive Technology Updates

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- iPod®/USB Connectivity, Streaming Audio New for 2010
- Active Front Headrests Enhance Safety
- Both RWD and AWD Models Offer Performance and Refinement

The 2010 Lexus GS 350 and GS 460 deliver a unique combination of luxury and sport performance to the Lexus vehicle lineup. Several technology enhancements continue to keep GS models at the top of their segment for 2010.

To further enhance the driving experience, iPod®/USB connectivity, streaming audio via Bluetooth® and an integrated XM® satellite radio receiver are added to the standard Lexus Premium Sound System. The optional Lexus Navigation system has been updated with Voice Command casual-language voice recognition and Bluetooth® phonebook download capability. The navigation system also comes with integrated XM® NavTraffic/Weather capability and includes a complimentary 90-day trial subscription. Finally, two all-new telematics products are available with a complimentary one-year trial subscription. Safety Connect™ is standard on non-navigation equipped vehicles. Lexus Enform™, which automatically comes with Safety Connect, is only available with navigation-equipped vehicles.

New exterior colors are offered to complement the advanced technology added to the 2010 GS 350 and GS 460. Deep Sea Mica replaces Black Sapphire Pearl and Satin Cashmere Metallic replaces Golden Almond Metallic. In addition, Parchment leather interior takes the place of Cashmere.

Continuing its commitment to passenger safety, Lexus now offers active front headrests standard on 2010 GS 350 and GS 460 models.

Engine/Transmission/Drivetrain/Performance

The GS gas luxury sport sedan comes in three models – GS 350 RWD, GS 350 AWD and GS 460 RWD. Optimized for low internal friction, the GS 350's 3.5-liter V6 engine produces 303 horsepower at 6,200 rpm and 274 lb.-ft. of peak torque at 3,600 rpm. A direct fuel-injection system provides much finer fuel-mixture control to improve both power and fuel efficiency. Dual Variable Valve Timing with intelligence (VVT-i) acts on both intake and exhaust valves to further enhance performance through a wide rpm range. A smooth-shifting six-speed transmission allows sequential shifting when desired.

The GS 460's V8 produces 342 horsepower at 6,400 rpm and 339 lb.-ft. of peak torque at 4,100 rpm. The GS 460, like the GS 350, meets the EPA's Ultra Low Emission Vehicle (ULEV-II) certification. Lexus has been setting standards for powertrain smoothness since its inception, and the GS 460's V8 and eight-speed automatic transmission continue that tradition. The transmission, like the six-speed automatic in the GS 350 models, allows manual shifting for a more engaging driving experience, and helps to maximize performance in certain driving situations. The GS 460 can accelerate from zero to 60 mph in 5.4 seconds, the GS 350 in 5.7 (5.8 for AWD).

Chassis/Body/Suspension/Tires/Brakes

The Lexus GS combines proven chassis systems with advanced dynamic handling technology to provide both agile handling and the Lexus trademark smooth ride. The double-wishbone front suspension and

multilink rear suspension virtually eliminate unwanted wheel-angle changes during suspension movement. The result is a natural, confident feel that's also spirited. A 34.1-ft. turning circle (35.4 ft. for GS 350 AWD) is comparable to that of smaller cars and helps make the GS highly maneuverable.

In all GS models, Brake Assist (BA), Electronic Brake-force Distribution (EBD) and the Anti-lock Braking System (ABS) help form a powerful safety front. EBD optimizes brake pressure at each wheel to help reduce body dive or sway during hard braking and cornering. BA is designed to determine if the driver is attempting emergency braking, and, if the driver has not stepped firmly enough on the brake pedal to activate the ABS, it will apply increased braking force until pedal pressure is released.

Aluminum-alloy 18-inch wheels are standard on the GS 460 and available for the rear-wheel-drive GS 350, which features standard 17-inch wheels. For maximum handling capability, the GS 350 comes standard with 225/50R17 W-rated summer tires. The all-season 17-inch run-flat tires that are standard on the GS 350 AWD model are available on the GS 350 RWD. The GS 460 is equipped with 245/40R18 Z-rated summer tires or available all-season run-flats.

The GS 350's available all-wheel-drive system helps to enhance handling in diverse driving conditions. A planetary-gear center differential and a wet-type multi-disc clutch control front-to-rear power distribution. The system normally sends 70 percent of available power to the rear wheels to provide the traditional performance advantages of a rear-drive car and will vary the torque-split ratio from 30:70 to 50:50 in response to driving conditions and driver input. The AWD system's electronic-control strategy takes inputs such as steering and throttle angle from driver activity combined with vehicle signals from wheel speed and yaw rate sensors.

An Adaptive Variable Suspension (AVS) system, standard on the GS 460 and available on the GS 350, provides two settings, normal and "sport" for tighter, more precise control. AVS can automatically select appropriate suspension damping for driving conditions. The GS 460 also offers the advanced Active Power Stabilizer system that helps reduce body sway and enhances vehicle control during cornering. An Electronic Control Unit (ECU) calculates the force needed to counter excess body sway, which is then applied to the stabilizer bars by the front and rear actuators. The GS 350 models are equipped with Vehicle Stability Control (VSC) with traction control. The system can be disengaged with the "TRAC Off" switch when the situation warrants doing so.

In the GS 460, the Lexus Vehicle Dynamics Integrated Management (VDIM) system integrates and manages a host of handling technologies, including VSC. Combining input from a variety of sensors, VDIM is designed to anticipate the onset of a vehicle skid or slide and then help correct the situation with a combination of braking, throttle, and steering control. VDIM integration helps to provide precise management for the Electronically Controlled Brakes (ECB), Variable Gear Ratio Steering (VGRS), Electric Power Steering (EPS), VSC, ABS, BA, EBD, and engine torque via the electronically controlled throttle.

EPS in the GS 460 provides precise electric power assist using a DC motor built into the steering gear housing. Also in the GS 460, VGRS can vary the steering from 2.7 turns lock-to-lock for low-speed maneuverability to a slower 3.2 turns lock-to-lock for highway-speed control. VGRS also provides differential steering control, which helps correct for a delay in steering response, something that occurs in all vehicles, to help enhance driving feel during lane changes and other transitional maneuvers.

The GS 460's ECB is a brake-by-wire system. ECB translates brake pedal pressure into electric signals that, via computer control, help provide precise and optimized braking. Electronic control provides quick

brake response when needed, helping the GS 460's VDIM system to anticipate and help correct skids before they occur. The ECB system is backed by conventional hydraulic brake control in the unlikely event of electronic failure.

Safety/Security Features

The Adaptive Front-lighting System (AFS), standard on the GS 460 and optional for the GS 350, helps illuminate a curve as the driver steers into it. A Tire Pressure Monitoring system can detect a critical loss in pressure in one or more tires and alert the driver. The available Intuitive Park Assist (IPA) system uses ultrasonic sensors to detect objects close to the car's front and rear bumpers and alerts the driver accordingly. A steering-input sensor helps to better judge changes in distance to objects.

The Supplemental Restraint System (SRS) in the GS sedans includes variable-force front airbags for both the driver and front passenger. The GS features standard seat-mounted side airbags for the front seats, knee airbags for the driver and front passenger, and front and rear side-curtain airbags.

The rear back-up camera, included with the optional navigation system, automatically projects an image of what its lens can detect behind the vehicle onto the navigation screen when the vehicle is in reverse gear.

The optional Pre-Collision System (PCS) in the GS models can help mitigate the effects of an accident. A millimeter-wave radar sensor helps detect obstacles in front of the car, while vehicle speed, steering angle and yaw-rate inputs help to determine whether a collision is unavoidable. On models equipped with Adaptive Variable Suspension PCS switches the suspension setting to sport mode to help provide appropriate chassis response, preemptively retracts front seat belts, and pre-initializes BA so that increased braking will be applied the instant the driver depresses the pedal. The active-braking feature will automatically apply the brakes up to a deceleration rate of 0.3 g if the driver fails to react to system warnings.

Luxury/Comfort/Convenience

The standard Regency leather-trimmed, heated, 10-way power front seats (perforated leather trim on GS 460) are comfortably contoured for support on long trips. Ventilated front seats are standard for the GS 460 and available for the GS 350. A power-tilt and telescopic steering wheel helps ensure a comfortable driving position. The standard dual-zone climate-control system filters the air. An optional rear power sunshade may add to passenger comfort on warm days.

All four windows offer one-touch up-and-down operation with jam protection. Both electrochromic auto-dimming side mirrors are power-retractable and feature automatic tilt-down to aid in parking when reverse gear is selected. A power trunk closer provides an added convenience on this extremely well-equipped car.

The standard Lexus Premium Audio System features a six-disc, in-dash CD changer, iPod/USB connectivity, Bluetooth® hands free phone and music streaming, and integrated XM® satellite radio receiver. The system plays through 10 premium speakers while an Automatic Sound Levelizer (ASL) maintains consistent sound levels at varying vehicle speeds.

Luxury Options

Within the ultra-quiet Lexus GS interior, all styles of music come to life with the optional Mark Levinson® Premium Sound system. Featuring 11 channels of amplification with a total of 330 watts playing through 14 speakers, the system allows users to play both CDs and DVDs. DVD movies can be viewed on the color seven-inch touch screen when the parking brake is engaged.

The available Hard Disc Drive (HDD) Lexus Navigation System eliminates the need for DVD map discs and offers enhanced Bluetooth® with phonebook download and Voice command, a casual-language—based voice recognition feature. This new technology allows the driver to give more flexible, conversational commands for easier access to audio, climate, and navigation system functions. Voice command helps users avoid having to speak commands in a specific order, making tasks easier to accomplish, in fewer steps, and helping to allow drivers to focus more on the road ahead.

Exterior Design

The current generation GS sedans introduced the brand's L-finesse design language. A 112.2-inch wheelbase, long hood, pulled-back cabin and short rear deck create a confident, powerful stance for the GS. A sloped, vertical grille surrounded by four independent headlamps visually connects the current GS sedans with the previous-generation models while signaling the brand's design progression. The lower valance features integrated fog lamps, and a low 0.27 coefficient of drag (Cd) helps to minimize wind noise and maximize highway fuel efficiency.

Interior Design

Ultra-premium wood, polished-metal accents and leather trim endow the GS interior with a lavish yet high-precision feel. Touch points convey quality and controls that respond fluidly. The customer can choose from among three interior leather color combinations: Light Gray leather with Dark Gray Bird's-eye maple wood trim, Parchment leather with Golden Bird's-eye Maple wood trim, or Black leather with Red Walnut wood trim. Each combination includes a matching wood and leather-trim steering wheel and shift knob that is standard on GS 460 and optional on GS 350.

Lexus designers strive to keep controls simple and intuitive, avoiding needless complexity. The SmartAccess keyless entry and push-to-start ignition allow the driver to keep the access fob in a pocket or purse. Audio and climate-control systems are easy to understand and operate. The unique instrument panel lighting system relies on variable-transparency glass to minimize reflections from the gauge faces and to help optimize visibility in all lighting conditions.

F-Sport Performance Accessories Available for GS

The available F-Sport Performance Accessories for GS 350 and GS 460 include performance enhancing parts such as 19-inch forged alloy wheels, brake upgrades, suspension systems, air intake, exhaust systems and more. F-Sport Performance Accessories by Lexus U.S.A. are engineered by Toyota Racing Development (TRD). When installed by an authorized dealer, the accessories are fully warranted for 12 months or for the balance of the new car warranty, whichever is greater.

Lexus Enform with Safety Connect

The Lexus GS 350 and GS 460 offer an all-new telematics system, Lexus Enform™ with Safety Connect™, available by subscription. Complimentary one-year trial subscriptions are included on all purchases of new Lexus vehicles equipped with these features. 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 both non-navigation and navigation-equipped GS 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, available only on navigation-equipped vehicles, 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[®] 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.

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