

IS Sedans Receive Technology Updates for 2010

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- iPod®/USB Connectivity, Streaming Audio Standard
- 2.5L V6 Engine Delivers 204 Horsepower
- 0-60 MPH in 5.3 Seconds With Legendary Lexus Refinement

The well-equipped Lexus IS sedan receives technology updates for 2010 that build on the brand's legacy of delivering state-of-art technology. To further enhance the driving experience, iPod®/USB connectivity, streaming audio via Bluetooth® and an integrated 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 features an integrated XM NavTraffic®, XMWeather™ and XM® Sports/Stocks receiver and comes with 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.

In addition to technology enhancements, the optional Luxury Package on the IS 250 AWD now includes front ventilated seats, perforated semi-aniline leather trim and wood trim. This package features other luxury amenities such as the Adaptive Front Lighting System (AFS), Bi-Xenon High-Intensity Discharge (HID) headlamps and a power tilt-and-telescopic steering column. Finally, Espresso Bird's-Eye Maple replaces Golden Brown Bird's-Eye Maple for vehicles equipped with Ecru leather trim.

Engine/Transmission/Drivetrain/Performance

The IS sedan line offers four models: The rear-wheel-drive (RWD) IS 350, the rear-drive IS 250, an all-wheel drive IS 250, plus the high performance RWD IS F. The IS 250's 2.5-liter V6 engine delivers 204 horsepower at 6,400 RPM and 185 lb.-ft. of peak torque at 4,800 rpm. The IS 350's 3.5-liter V6 delivers 306 horsepower at 6,400 RPM along with 277 lb.-ft. of torque at 4,800 rpm and can accelerate the car from zero-to-60 mph in just 5.3 seconds. Both engines use aluminum cylinder blocks and heads and employ dual Variable Valve Timing with intelligence (VVT-i), which controls timing on both the intake and exhaust camshafts.

A direct-type fuel-injection system provides a cooling effect in the cylinders, enabling the high compression needed to extract maximum energy from the fuel. Aside from its larger displacement, the 3.5-liter V6 differs chiefly in that it augments the direct fuel injection with port fuel injectors. In light- and medium-load conditions, these additional injectors help produce a precise burn, increasing power and efficiency. A dual exhaust system reduces backpressure at higher engine speeds.

An advanced six-speed automatic transmission with steering-wheel-mounted paddle shifters is standard on the IS 350 and the IS 250 all-wheel drive model. The rear-wheel drive IS 250 comes standard with a crisp-shifting six-speed manual transmission, with the paddle-shift automatic offered as an option.

Chassis/Body/Suspension/Tires/Brakes

The Lexus IS is engineered to provide for a sporty driving experience. Its double-wishbone front suspension features a high-mount upper control arm, and the lower arm uses a large, liquid-filled bushing at the rear to minimize vibration and harshness. The multi-link rear suspension emphasizes precise control of geometry in all dynamic conditions. High-strength steel and aluminum suspension components reduce unsprung weight, helping the IS remain stable on bumpy surfaces and improving ride comfort.

The sophisticated monotube shock-absorber design utilizes multi-leaf linear control valves to optimize damping force, plus internal rebound springs for firmer body control without degrading ride comfort. Available sport suspension with 18-inch wheels further enhances handling response.

The IS 250's available all-wheel-drive system provides extra traction 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 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.

Combining input from a variety of sensors, Vehicle Dynamics Integrated Management (VDIM) is designed to anticipate the onset of a vehicle skid or slide and help correct the situation with a combination of braking and throttle control. VDIM integration provides precise management for Electric Power Steering (EPS), Vehicle Stability Control (VSC), the Anti-lock Braking System (ABS), Brake Assist (BA), Electronic Brake force Distribution (EBD), and engine torque (via the electronically controlled throttle). The driver can disengage VSC via the "TRAC off" switch, which can be desirable in certain situations. VDIM is standard on all IS sedan models.

EPS helps to provide linear steering response, precise control and excellent straight-line stability. The vehicle-speed-sensitive system eliminates parasitic loss from a hydraulic pump, and reduces weight and complexity.

The IS 250 and IS 350 feature a four-wheel disc brake system, with the IS 350 equipped with larger ventilated front and rear rotors. In addition, the IS 350's aluminum four-piston front calipers aid in heat dissipation and stopping power and reduce unsprung weight.

Standard all-season performance tires measure 225/45R17 in front and 245/45R17 for the rear (225/45R17 on IS 250 AWD). Available as a stand-alone option or as part of the Sport Package, summer 225/40R18 front tires and 255/40R18 rear tires reward the enthusiast driver with even higher cornering grip.

The 18-inch wheels can be equipped with available all-season tires on rear-wheel drive models.

Safety/Security Features

Passive-safety technology in the Lexus IS begins with a reinforced passenger compartment that helps protect the occupants with front- and rear-crush structures. Seatbelt pre-tensioners and force limiters are used for the front and outboard rear seats.

In addition to the advanced dual-front airbags and front seat-mounted side airbags, the Lexus Supplemental Restraint System (SRS) for the IS includes side-curtain airbags that extend from A-pillar to C-pillar, and a knee airbag for both the driver and the front passenger. Advanced dual-stage front airbags are designed to deploy at one of two speeds, according to impact force. The driver's front airbag also includes an extra low stage designed to deploy based, in part, on the seat's position on its track. The front passenger airbag features two chambers, creating an indentation in the center impact area that helps to provide overall occupant protection.

The optional Pre-Collision System (PCS) can help reduce collision damage. The package includes Dynamic Radar Cruise Control, which uses millimeter-wave radar to measure and help maintain a pre-set following distance from a vehicle traveling ahead. PCS relies on the radar sensor to detect obstacles in front of the car, and a PCS computer with sensor inputs from vehicle speed, steering angle and yaw rate is designed to determine whether a collision is unavoidable. In such a situation, PCS preemptively retracts front seat belts and pre-

initializes Brake Assist so that increased braking will be applied the instant the driver depresses the pedal.

The available High Intensity Discharge (HID) headlamps with Adaptive Front-lighting System (AFS) helps to illuminate a curve as the driver steers into it. The rear back-up camera, included with the optional navigation system, automatically projects an image of what its lens can detect behind the car onto the navigation screen when the transmission is in reverse gear. To better communicate with other drivers, IS features exterior mirrors with integrated turn signals.

The optional Intuitive Park Assist (IPA) system uses ultrasonic sensors to detect objects close to the car's front and rear bumpers, alerting the driver and showing distance to objects in the multi-information display within the speedometer. When any IS model is also equipped with the optional navigation system, information on objects detected is shown in greater detail on that system's seven-inch touch screen display.

Luxury/Comfort/Convenience

Standard amenities for the IS models include a leather-trimmed interior with 10-way power front seats, dual-zone automatic climate control with rear-seat vents and a pollen filter (plus a smog filter on IS 350), power moonroof with one-touch open/close and seven open-position settings, manual tilt-and-telescoping steering wheel, all power windows with automatic up/down feature and jam protection, and an auto-dimming rear-view mirror. The IS 250 AWD model in addition features standard heated seats.

A multi-function switch allows the driver to set an adjustable speed warning and an adjustable RPM shift light in the tachometer. Paddle shifters function in D mode and multiple controls are designed to maximize convenience for the driver. The SmartAccess keyless entry and push-button-start ignition allows the driver to keep the access fob in a pocket or purse. The standard HomeLink[®] programmable garage door opener also operates home security devices and other systems.

The standard Lexus Premium Audio System features a six-disc, in-dash CD changer, 194 watts of total power, 13 speakers, iPod/USB connectivity, Bluetooth hands free phone and music streaming, and an integrated satellite radio receiver. Automatic Sound Levelizer (ASL) maintains consistent sound levels at varying vehicle speeds.

Luxury Options

A Premium Plus Package that is optional for all IS models includes wood trim, perforated leather seating trim and heated and ventilated front seats. The comprehensive "Sport" and "Luxury" option packages also include three-position memory for seats, steering wheel and outside mirrors, rain-sensing wipers, power tilt and telescopic steering column and auto-dimming outside mirrors. Ventilated seats, wood trim and semi-aniline leather are included in the available Luxury Package for the 2010 IS 250 AWD.

Like all Lexus models, the IS offers its own version of the Mark Levinson[®] Premium Surround Sound Audio system, which is available in conjunction with the optional DVD touch-screen navigation system. This 14-speaker audio system features discrete 5.1 multi-channel playback with 7.1-channel speaker architecture. Its 10 amplifier channels provide 300 watts total output at 0.1 percent total harmonic distortion (THD). The Mark Levinson system plays conventional CDs and DVDs, plus MP3/WMA-formatted CDs. DVD movies can be viewed on the optional navigation system's color seven-inch touch screen when the parking brake is engaged.

Exterior Design

The Lexus IS sedans show a strong family resemblance to the Lexus GS models while establishing their own distinctively sporty identity. A notably wide stance and long wheelbase, coupled with tightly drawn bodywork, give the IS an athletic, road-hungry yet sophisticated style. Carefully shaped body contours, a subtle ducktail-curved trunk lid and "air kick" tail lamps contribute to a low 0.28 coefficient of drag (Cd).

The sound of powerful V6 engines will resonate with driving enthusiasts, yet all vehicle occupants will appreciate Lexus' ability to minimize undesirable noises. A highly rigid body structure is the starting point for controlling noise intrusion. Strategically placed noise-suppression materials, including special window and door seals, acoustic windshield glass and asphalt sheeting, take over from there. No detail has been overlooked, down to the sound-absorbing sun visors.

Interior Design

The IS models' luxurious cabin features intelligently designed displays and controls that are easy to see and use. Bright, clear Optitron gauges and smartly integrated metallic trim, or available Bird's-eye Maple trim, help create an elegant yet sporty environment. Premium interior materials and meticulous attention to detail convey the Lexus identity.

Lexus offers a refreshing approach to designing controls as compared to some competitors that are making controls more complex to learn and distracting to use. One example is the multi-information display located within the speedometer. This versatile feature integrates a trip computer that provides outside temperature, driving range, average fuel consumption, average fuel consumption since refueling (per tank), current fuel consumption, and average speed. The display also includes an oil-maintenance reminder and system warnings, all grouped in one convenient location.

Additional features are added to the multi-information display depending on selected options. When an IS model is equipped with Dynamic Radar Cruise Control, the display can show a car icon with the selected following distance. When equipped with Intuitive Park Assist (IPA), the display can show a car icon with the location and distance of objects detected near the bumpers.

F-Sport Performance Accessories Available for IS

The IS 250 and IS 350 F-Sport Performance Accessories 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 IS 250 and IS 350 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 IS 250 and IS 350 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. Integrated XM[®] satellite radio 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 through 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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