2008 IS F Product Information

EXTERIOR DIMENSIONS		
Wheelbase		107.5 in.
Overall Length		183.5 in.
Overall Width		71.5 in.
Overall Height (unloaded)		55.7 in.
Tread Width	- Front	61.4 in.
	- Rear	59.6 in.

INTERIOR DIMENSIONS		
Seating Capacity		4
Headroom	- Front	37.2 in. (39.0 in. without moonroof)
	- Rear	36.7 in. (36.9 in. without moonroof)
Legroom	- Front	43.9 in.
	- Rear	30.6 in.
Shoulder Room	- Front	54.4 in.
	- Rear	52.7 in.
Hip Room	- Front	54.1 in.
	- Rear	53.7 in.
EPA Passenger Volume		85.7cu. ft. (88.3 without moonroof)
EPA Cargo Volume		13.3 cu. ft.

WEIGHTS AND CAPACITIES	
Curb Weight	3,780 lbs.
Weight Distribution	54% front/46% rear
Fuel Capacity	16.9 gal.

ENGINE	
Type, Materials	V8, 90-degree with aluminum block and cylinder heads
Designation	2UR-GSE
Valvetrain	DOHC, 32- valve, Intake camshaft Electric Variable Valve Timing with intelligence (VVT-iE, Exhaust camshaft Hydraulic Variable Valve Timing with intelligence (VVT-i)
Displacement	5.0 liters (4,969 cm^3/303.2 cu. in.)
Bore x Stroke	3.70 in. x 3.52 in.
Compression Ratio	11.8:1
Horsepower (SAE)	416 @ 6,600 rpm
Torque	371 lb.-ft. @ 5,200 rpm
Maximum Engine Speed (redline)	6,800 rpm
Fuel System	SFI D-4 Direct-to-cylinder injection with secondary port injectors
Fuel Requirement	Premium 91 octane unleaded
Emission Certification	ULEV II

DRIVETRAIN		
Layout		Front engine, rear-wheel drive
Transmission Type		8-Speed Sport Direct Shift automatic with paddle shift and Manual mode
Designation		AA80E
Gear Ratios	1st	4.596
	2nd	2.724
	3rd	1.863
	4th	1.464
	5th	1.231
	6th	1.000
	7th	0.824
	8th	0.685
	Rev.	2.176
Differential Gear Ratio		2.937

CHASSIS AND BODY		
Body/Frame		Unitized steel body with steel front & rear subframes
Suspension	- Front	Double wishbone with high-mount upper arms, high-rate coil springs w/ bound stopper, monotube gas-filled shock absorbers, large-diameter hollow stabilizer bar
	- Rear	Multilink with low-mount upper arms, high-rate coil springs w/bound stopper, monotube gas-filled shock absorbers, large-diameter stabilizer bar
Steering	- Type	Electric Power Steering (EPS): Vehicle speed-sensing coaxial rack & pinion, power assist, F sport mode adjustable
	- Overall Ratio	13.6
	- Turns (lock to lock)	2.91
	- Turning Circle (curb to curb)	33.5 ft.
Brakes	- Type	Four-wheel power-assisted disc brakes (Brembo manufactured for Lexus) with Anti-lock Braking System (ABS) and Electronic Brake force Distribution (EBD) and Brake Assist
	- Front	14.2-in. drilled rotors with six-piston opposed aluminum calipers, high-friction brake pads
	- Rear	13.6-in. drilled rotors with two-piston opposed aluminum calipers, high-friction brake pads
Anti-lock Braking System		4 channel, 4 sensor
Wheel Size/Type		19 x 8 in. front / 19 x 9 in. rear; 10-spoke forged aluminum (BBS manufactured for Lexus)
Tire Size/Type		225/40R19 93Y front – 255/35R19 96Y rear; developed for IS F
Spare Tire and Wheel		T135/70R18 103M
Tire Brands		Bridgestone Potenza, Michelin Pilot Sport PS2 (both built to IS F spec)

PERFORMANCE	
0-60 mph Acceleration (manuf. results)	4.6 sec.
Top Track Speed (mfg. estimates – electronically limited)	170 mph
0-1/4 Mile Acceleration (manuf. results)	13.0 sec.
2008 EPA-estimated* mileage (City/Hwy/Combined)	16/23/18
Coefficient of Drag (C_d)	0.30

* For model year 2008, the EPA has revised the way the estimated fuel economy rating is determined. Actual mileage will vary.

STANDARD EXTERIOR FEATURES

Overall Exterior Styling/Body Design

- "F" badging on front fenders and right-rear trunk area
- Distinctive F marque styling cues with two-inch wider fenders, taller hood, enlarged brake cooling vents, front fender vents, larger rocker panels and an enlarged rear spoiler
- Dual-polished stainless-steel exhaust diffusers integrated into the bumper in a trapezoidal position
- Standard 19-inch 10-spoke forged aluminum wheels manufactured for Lexus by BBS
- Larger V-shaped grille with trapezoidal-shaped bumper, distinctive mesh grille and lower intake
- Bi-xenon HID, auto-leveling headlamps
- Adaptive Front lighting System (AFS)
- LED brake, tail and license plate lamps
- Fog lamps
- Puddle lamps (mounted on underside of outer mirrors)
- Color-keyed electrochromic outside rearview mirrors with memory
- Top shade/tinted glass on front windshield
- Ultraviolet and infrared ray reducing glass on all windows
- Shark fin antenna for XM satellite radio (antenna is standard with/without XM satellite radio)

Body Structure and Paint

- Exterior colors (6): Starfire Pearl, Obsidian, Smoky Granite Mica, Matador Red Mica, Mercury Metallic, Ultrasonic Blue Mica (unique to IS F)
- High-tensile strength sheet metal used on 40 percent of the body for light-weight rigidity
- Braces attached forward of rear sub-frame provide torsional and transverse rigidity
- Rust resistant steel used on main body parts
- Resin rocker moldings assist durability and chip resistance on lower body panels
- Use of rigid, low density foam sound dampening asphalt sheets reduce NVH
- Foam material in side members/pillars, and hidden windshield frame used to reduce wind noise
- Narrow and precise body panel gaps
- Flush surface body panel and glass
- One-piece color-keyed Super Olefin Polymer front and rear bumpers
- Acoustic glass windshield to reduce noise
- Stainless steel exhaust system
- Bolt-fastened front/rear crash box structures help reduce damage and cost in light collision

Convenience Features

- Heated outside rearview mirrors
- Heavy duty rear window defogger with timer
- Variable intermittent wipers with mist cycle
- Fuel cap hanger
- Rain-sensing wipers

STANDARD INTERIOR FEATURES

Interior Trim

- Leather trimmed interior with “F” logo embroidered in sides of seat cushions
- Blue accents exclusive to “F” marque
- Hand-finished aluminized composite trim
- Fabric sun visors and headliner
- One-piece cut pile carpeting
- Two front and two rear articulating assist grips

Seats

- Leather-trimmed Sport Seats with enhanced lateral support, four-seat sport configuration; “F” badging on console and side of each seat
- 10-way power front sport seats, including power lumbar support, and three-position memory for driver and front passenger
- Heated front seats
- Height adjustable front shoulder belt anchors
- Rear seat trunk pass through

Instrumentation and Controls

- Optitron speedometer and tachometer gauges, fuel and coolant temperature gauges, and unique digital oil temperature and voltage gauges
- LCD shift indicator display in center of meter cluster with engine oil temperature gauge and volt meter
- SPORT indicator light when in sport mode
- LED illuminated air vent dials
- “F” unique blue LED illuminated needles on speedometer and tachometer
- Audible alert when reaching rpm limit
- “F” logo displays on multi-information display and speedometer and tachometer needles sweep across their dials when system is powered
- Multi-information display with a choice of outside air temperature, cruise range if engaged, average fuel consumption, average fuel consumption after re-fueling, instantaneous fuel consumption, average vehicle speed or gear selection (in D mode)
- Battery, oil level, seat belt, brake, airbag SRS, engine, low fuel, EPS, AT oil temp, ABS, tire pressure and tire slippage warning lights
- Door open, TRAC off, high beam, hazard, AFS off, Snow and cruise control indicator lights
- LCD-type electronic digital twin trip meters and odometer display
- Headlights-on indicator in instrument panel
- Fog lamp indicator
- Automatic climate control display: speed and air flow indicators
- Power outside mirror control

STANDARD INTERIOR FEATURES – CONT.

Convenience Features

- SmartAccess keyless entry with push-button start
- Rear seat center console in four-seat configuration
- Power tilt and telescoping adjustable steering wheel with memory
- Front center armrest
- Dust/pollen interior air filter
- Power windows with one-touch up/down and jam protection
- Power door locks with anti lock-out
- Speed-sensitive, shift-linked automatic door lock/unlock
- Retained accessory power for operation of power windows and moonroof
- Inside auto-dimming electrochromic rearview mirror with compass
- Cruise control
- HomeLink® programmable garage door opener
- Electronic remote, illuminated trunk lid and fuel-filler door releases
- Door courtesy lights, glove box light and trunk light
- Front and rear dome light and individual LED map lights integrated into headliner
- One front cup holder located behind the shift lever and one cup holder in the center console
- Console mounted dual rear cup holders
- Covered center console storage box
- Cigarette lighter, front ashtray
- Articulating assist grips (two front/two rear)
- Retractable coat hooks
- First aid and Tool kits
- Lexus Personalized Settings (LPS) to allow certain electronic settings to be tailored to owner preference (programmable by Lexus dealers)
- Aluminum scuff plates
- Sound-absorbing sun visors with vanity mirrors
- Coin holder

STANDARD AUDIO SYSTEM

Lexus Premium Audio system

- AM/FM ETR and 6-disc in-dash CD changer
- 13 speakers with high-power amplifier
- MP3/iPod®/WMA auxiliary audio input plug
- Digital signal processing with Automatic Sound Levelizer (ASL)
- Electronic crossover network
- Rear glass-imprinted radio antenna with separate FM diversity antenna
- Theft-deterrent design

STANDARD SAFETY AND SECURITY

Safety

- Vehicle Dynamics Integrated Management (VDIM) with cut-off switch and both Normal and Sport modes [integrates VSC, TRAC, ABS, EBD, BA, and throttle input]
- Vehicle Stability Control (VSC)
- Traction Control (TRAC)
- Front ventilated and rear ventilated disc brakes with single brake booster and four-sensor, four-channel Anti-lock Braking System (ABS) with Electronic Brake-force Distribution (EBD) and Brake Assist (BA)
- Dual-stage driver's and front passenger's airbag Supplemental Restraint System (SRS)
- Driver and front passenger knee airbags Supplemental Restraint System (SRS)
- Front seat-mounted side airbag Supplemental Restraint System (SRS)
- Front and rear side curtain airbags Supplemental Restraint System (SRS)
- Three-point belts for all seating positions, front and rear with force-limiting pretensioners; height adjustable front shoulder belt anchors
- Automatic Locking Retractor (ALR) and Emergency Locking Retractor (ELR) function for all positions except driver (driver's only equipped with ELR)
- Impact absorbing door and body construction
- Pedestrian impact absorbing structures integrated in engine hood, fenders and cowl
- Daytime Running Lights (DRL)
- Direct Tire Pressure Monitoring System
- Front and rear door side impact beams
- Front and rear energy-managing crumple zones
- Collapsible steering column
- Impact-dissipating soft upper headliner and pillars
- Child Restraint Seat (CRS) top tether anchor brackets (adopted to comply with phase-in of the new CRS Anchorage Points Regulation)

Security

- Vehicle theft-deterrent system with engine immobilizer
- Remote-activated, SmartAccess-linked illuminated entry (dome-light ring illuminates when doors are unlocked, remains illuminated for 15 seconds or until door is opened)
- Headlight-off delay feature (after closing/opening the door, headlights remain illuminated for approximately 30 seconds before automatically shutting off)
- Multifunction in-key remote
- Entry system with lock, two-stage unlock, trunk open and "panic" features, volume-adjustable confirmation tone and rolling code technology

FACTORY OPTIONS

- Mark Levinson® Premium Surround-sound System (AM/FM tuner, in-dash 6-DVD/CD changer, 14 speakers, advanced discrete amplifier design with 300 watts continuous power at less than 0.1% THD from 20 to 20,000 Hz, 7.1-channel speaker architecture)

- Lexus DVD Navigation System
    - 7-inch LCD VGA touch screen
    - Voice activation
    - Rear back-up camera
    - Bluetooth®

- Intuitive Park Assist (IPA)

- Pre-Collision System (PCS) with Dynamic Radar Cruise Control

- Headlamp Cleaner

- Moonroof delete option