2009 SC 430 Product Information

EXTERIOR DIMENSIONS	
Wheelbase	103.1 in.
Overall Length	178.5 in.
Overall Width	72.0 in.
Overall Height (unloaded)	53.1 in.
Tread Width - Front/Rear	61.0 in./60.4 in.
Ground Clearance (unloaded)	5.6 in.

INTERIOR DIMENSIONS	
Seating Capacity	4
Headroom - Front	37.2 in.
- Rear	33.9 in.
Legroom - Front	43.6 in.
- Rear	27.1 in.
Shoulder Room - Front	53.8 in.
- Rear	46.6 in.
Hip Room - Front	55.7 in.
- Rear	49.5 in.
EPA Passenger Volume	75 cu. ft.
EPA Cargo Volume	8.7 cu. ft. (9.4 without spare tire – run flat option)

WEIGHTS AND CAPACITIES	
Curb Weight	3,840 lbs.
GVWR	4,530 lbs.
Weight Distribution (Percent Front/Rear)	53/47
Fuel Capacity	19.8 gal.

ENGINE	
Type, Materials	V8, aluminum block and heads
Designation	3UZ-FE
Valvetrain	DOHC 32 valve with continuously Variable Valve Timing with intelligence (VVT-i)
Displacement	4.3 liter
Bore x Stroke	3.58 in. x 3.25 in.
Compression Ratio	10.5:1
Horsepower (SAE)	288 hp @ 5,600 rpm
Torque	317 lb.-ft. @ 3,400 rpm
Maximum Engine Speed (redline)	6,350 rpm
Fuel System	Sequential Multiport Fuel Injection (SFI); Electronic Throttle Control System with intelligence (ETCS-i)
Fuel Requirement	91 octane premium unleaded gasoline
Emission Certification	LEV-II

DRIVETRAIN		
Layout		Front engine, rear-wheel drive
Transmission Type		6-speed sequential automatic; electronically controlled (ECT-i); gated shifter; “Power,” “Normal” and “Snow” modes
Designation		A761E
Gear Ratios	1st	3.296
	2nd	1.958
	3rd	1.348
	4th	1.000
	5th	0.725
	6th	0.582
	Reverse	2.951
Differential Ratio		3.769

CHASSIS AND BODY		
Body/Frame		Unitized steel body/frame structure
Suspension	- Front	Double wishbone with coil springs; gas-filled shock absorbers; high-mount upper arms; stabilizer bar
	- Rear	Double wishbone with coil springs; gas-filled shock absorbers; stabilizer bar; strut rods
Steering	- Type	Vehicle speed-sensing progressive power rack and pinion
	- Overall Ratio	17.4:1
	- Turns (lock to lock)	3.3
	- Turning Circle (curb to curb)	36.7 ft.
Brakes	- Type	Four-wheel power-assisted disc brakes with Anti-lock Braking System (ABS); Brake Assist (BA); Electronic Brake-force Distribution (EBD)
	- Front	11.7 in. vented disc
	- Rear	12.1 in. solid disc
Anti-lock Braking System		4 channel, 4 sensor (integrated with VSC)
Wheel Size/Type		18 x 8 JJ five-spoke aluminum alloy
Tire Size/Type		245/40R18 Z-rated summer
	- Optional	Summer or available all-season run-flat tires (same size)
Spare Tire		Temporary spare on steel wheel
Tire Brand(s)		Dunlop (conventional summer tire); Bridgestone and Dunlop (run-flat all-season tire and run-flat summer tire)

PERFORMANCE	
0-60 mph Acceleration (manuf. results)	5.8 sec.
0-1/4 Mile Acceleration (manuf. results)	14.3 sec.
Top Track Speed (electronically limited)	149 mph
EPA-estimated fuel economy	16 mpg city / 23 mpg highway
Coefficient of Drag (C_d)	0.31 (0.30 with optional rear spoiler)

Notes: Items in **bold** are new for 2009

STANDARD EXTERIOR FEATURES

Overall Exterior Styling/Body Design

- Forward motion silhouette with low-profile grille and pronounced front bumper
- Five-spoke 18" aluminum alloy wheels
- Front grille with chrome surround
- 245/40ZR18 Z-rated tires
- Temporary spare tire on steel wheel (T145/70R17)
- Chrome accents on the front grille, door handles and outside rearview mirrors
- Independent halogen high beam lamps
- Projector-type High-Intensity Discharge (HID) headlights
- Two-bulb headlamp design
- Three-pod design LED rear combination lamps (back-up lights located between exhaust pipes)
- LED brake lights
- Color-keyed bumpers, door handles and electrochromic outside mirrors
- Fully concealed front wiper
- Revised front foglamp area; foglamps integrated into lower air intake
- Dual exhaust system with exposed chrome tips
- Heat and UV light reducing glass
- Rear wind deflector helps reduce wind wrap during top down driving conditions

Body Structure and Paint

- Electrically powered retractable aluminum hardtop
- Narrow and precise body gaps
- Four underbody covers (engine, floor, front and rear) create aerodynamic underbody
- Sound damping material on rear wheel well, underfloor, rocker molding and retractable hardtop
- Hood insulator
- Foam rubber body noise isolation inserts
- Weldable vibration damping "sandwich" steel-resin-steel sheets in dash
- Galvanized steel
- Polyvinyl chloride (PVC) undercoating
- Super Olefin Polymer plastic used for bumpers and lower rocker panels
- Five types of underbracing for superior rigidity (hanger brace, rocker brace, tunnel brace, toe-in brace and rear-mount bracket)
- Wheel arch edge protectors
- Extensive use of anti-chipping paint on lower body panels
- Stainless steel exhaust system
- Exterior colors: Starfire Pearl, Obsidian, Black Sapphire, Mercury Metallic, Matador Red, Golden Almond Metallic, Smoky Granite Mica, Tiger Eye Mica, **Opaline Pearl**

Note: Items in **bold** are new for 2009

STANDARD EXTERIOR FEATURES – CONT.

Convenience Features

- Dual power remote controlled outside mirrors with timed defoggers
- Heated outside rearview mirrors
- Auto-dimming electro-chromic outside rearview mirrors
- Reverse auto tilt-down feature on outside mirrors
- **Turn signals incorporated into outside mirrors**
- Rear window defogger with auto-off timer
- Water repellent side door glass
- Automatic headlight-on system senses ambient light and automatically turns headlights on and off
- 5 mph front and rear bumpers
- Variable intermittent windshield wipers with mist cycle
- Wiper blades have graphite coating for smoother operation and longer life
- Headlamp washers
- Fuel cap hanger with tether

STANDARD INTERIOR FEATURES

Interior Trim

- Interior available in black, Camel or Ecru
- Semi-aniline leather-trimmed interior, including seats, door armrests and console cover
- Three-spoke wood/leather-trimmed steering wheel with chrome “L” emblem and audio switches
- Wood-trimmed shift knob
- Electrically powered display doors cover the audio head unit and optional navigation screen
- Chrome inside door handles
- Black headliner for black interiors; ecru headliner carries over for ecru interior
- Dark brown headliner and upper instrument panel for camel interior
- Full door trim with integrated armrests, courtesy lights and map pockets
- Net pocket located by the front passenger lap vent
- Cut pile carpeting and full trunk trim
- “Lexus” scuff plates with White Illumination
- Floor mats

Seats

- Multi-adjustable driver and front passenger seats (10-way power adjustments: fore/aft slide, front cushion height, rear cushion height, seatback recline and lumbar; 4-way manual adjustments: headrest height and tilt)
- Heated front seats
- Leather-trimmed front seat belt presenters

STANDARD INTERIOR FEATURES – CONT.

Seats – cont.

- Chrome "L" emblem behind front headrest
- Top tether anchors and ISO-FIX lower anchorage brackets in the rear seats
- Seatback pockets behind front seats
- Integrated rear seat headrests

Instrumentation and Controls

- Electronic analog 8,000-rpm tachometer, coolant temperature and fuel level gauges utilizing LED illuminated needles on black faces with dimmer control
- Fuel level, coolant level, oil level, oil pressure, battery, engine, parking brake, ABS, air bag, door ajar, seat belt disconnect and tail lamp bulb failure warning lights
- Turn signal, headlights-on, high beam, cruise control, overdrive off and transmission power mode indicators
- Lights-on indicator
- Soft-touch climate and temperature controls and LCD digital temperature setting indicator
- Electronic digital odometer with dual trip meters with LCD display
- Redesigned combination meter
- Compass located on the bottom of the combination meter
- Located on the HVAC panel: Trip computer with average mpg, instantaneous mpg, drive time, average mph, outside temperature information and digital quartz clock
- Vehicle Stability Control (VSC) on/off switch
- Open/close button for convertible top operation

Comfort/Convenience Features

- Lexus Navigation System
- Electronic programmable garage door opener
- Dual front cup holders with wood cover panel
- Two position memory system captures settings for outside mirrors, steering wheel tilt/telescope and power seat functions for both driver and passenger, excluding power lumbar setting
- Power tilt-and-telescopic steering wheel with power automatic tilt-away
- Power windows with auto-up/down feature
- Power door locks and anti-lockout feature with driver door two-turn unlock
- Two-level center console with lockable lower box
- Push open ashtray and cigarette lighter
- Automatic climate control system with lap vents for optimum cabin temperature during top down driving
- Navigation System with three position tilt screen and electrically powered wood-trim cover panel
- Steering-wheel–mounted cruise control
- Auto-dimming, electrochromic inside rearview mirror
- Dual illuminated covered vanity mirrors
- Front individual map lights
- Illuminated glove box, trunk and ashtray
- Remote electric trunk lid release with valet lockout and fuel filler door release

STANDARD INTERIOR FEATURES – CONT.

Comfort/Convenience Features – cont.

- Covered coin case
- First aid kit located in the trunk
- Tool kit
- Lexus Personalized Settings (LPS)

STANDARD AUDIO SYSTEM

Mark Levinson® Premium Audio System

- AM/FM ETR with auto-reverse cassette and six-disc in-dash CD changer
- Dolby B and C noise reduction for cassette
- Seven-channel DSP high power amplifier with power output of 240 watts (continuous average power at .01percent THD; 20-20,000 Hz)
- Digital Sound Processor (DSP) for high resolution
- Separate EQ settings used for top up/down driving conditions
- Automatic Sound Levelizer (ASL)
- Nine speakers including subwoofer
- Ultra-low crossover distortion
- AM/FM Automatic 3-position power mast antenna and FM diversity antenna with Radio Data System (RDS) retrieving capability
- FM sub-antenna imprinted in windshield glass

STANDARD SAFETY AND SECURITY

Safety

- Driver and front passenger airbag Supplemental Restraint System (SRS)
- Seat-mounted side airbag Supplemental Restraint System (SRS) for front seats
- Driver and front passenger knee airbags
- Front passenger seat occupant detection sensor
- Seat belt pretensioners and force limiters for both the driver and front passenger
- Three-point belts for all seating positions: Automatic Locking Retraction/Emergency Locking Retraction (ALR/ELR) function for front passenger and rear positions, driver's equipped with ELR only
- Anti-lock Braking System (ABS) with Electronic Brake-force Distribution (EBD), Brake Assist (BA), TRAC, VSC
- Four-sensor Direct Tire Pressure Monitor System
- Front and rear energy-managing crumple zones
- Highly rigid cabin
- Center high-mounted stop lamp
- Top tether anchors and ISO-FIX lower anchorage brackets in the rear seats for child seat installation
- Daytime Running Lights (DRL)
- Adaptive Front lighting System (AFS) that improves road visibility in turns
- Dual side door impact beams

SAFETY AND SECURITY – CONT.

Security

- Key-integrated multifunction remote entry system with audible lock/2-stage unlock confirmation, trunk release and panic function
- Illuminated entry/exit system (dome lamp, door courtesy lamps, driver's footlamp and ignition keyhole light)
- Theft deterrent system with engine immobilizer
- Valet lock-out function for trunk, glove box, lower center console box and convertible roof operation
- No key cylinder for the passenger side door or trunk

STANDARD MECHANICAL FEATURES

- 6-speed sequential shift automatic electronically controlled transmission (ECT-i)
- Torque Activated Powertrain Control
- Acoustic Control Induction System (ACIS)
- Electronic Throttle Control System (ETCS) with “Snow and Power” Mode
- Evaporative Emission Control (EVAP) controlled by the engine ECU
- Centrally located platinum tipped spark plugs
- Computer-controlled ignition system with two knock sensors
- Double-piston master cylinder piston with hydraulic brake booster
- Liquid-cooled transmission oil cooler
- Serpentine accessory drive belt with automatic tensioner
- Hood and trunk lid struts
- Low restriction dual exhaust system tuned to provide a low, sporty sound
- On-board Refueling Vapor Recovery System (ORVR)

FACTORY OPTIONS

Run-Flat All-Season or Run-Flat Summer Tires

Rear Spoiler
(coefficient of drag is reduced from .31 to .30 with the rear spoiler)

18-inch Wheel with Liquid Graphite Finish