2010 RX 450h Product Information

Note: All specs are for both all-wheel drive (AWD) and front-wheel drive (FWD) unless otherwise noted.

EXTERIOR DIMENSIONS		
Wheelbase		107.9 in.
Overall Length		187.8 in.
Overall Width		74.2 in.
Overall Height (unloaded)		66.3 in. (without roof rack)
Tread Width	- Front	64.2 in.
	- Rear	63.8 in.
Ground Clearance		6.9 in.
Approach Angle		28.5 deg. – FWD 28.6 – AWD
Departure Angle		24.6 deg.
Breakover Angle		14.4 deg.

INTERIOR DIMENSIONS		
Seating Capacity		5
Headroom	- Front (with moonroof)	39.1 in.
	- Rear	37.7 in.
Legroom	- Front	43.1 in.
	- Rear	37.1 in.
Shoulder Room	- Front	58.0 in.
	- Rear	57.6 in.
Hip Room	- Front	55.6 in.
	- Rear	54.5 in.
Total Interior Volume		139.7 cu. ft.
Cargo Volume	- Rear seats up and rearmost	40.0 cu. ft.
	- Rear seats folded down	80.3 cu. ft.

WEIGHTS AND CAPACITIES	
Curb Weight	4,652 lbs. – AWD; 4,520 lbs. – FWD
GVWR	5,974 lbs. – AWD; 5,765 lbs. – FWD
Max Towing Capacity	3,500 lbs. (with appropriate hitch) – AWD Not Applicable – FWD
Fuel Capacity	17.2 gal.

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HYBRID POWER SYSTEM		
Type		Series/parallel system with gas engine and electric motors
Total System Power		**295 hp**
ENGINE		
Type, Materials		V6, aluminum block and heads
Designation		2GR-FXE
Valvetrain		DOHC 24-valve with VVT-i
Displacement		3.5 liter
Bore x Stroke		3.70 in. x 3.27 in.
Compression Ratio		12.5:1
Horsepower (SAE)		245 @ 6,000 rpm (not including hybrid drive)
Torque		234 lb.-ft. @ 4,800 rpm (not including hybrid drive)
Maximum Engine Speed (redline)		6,000 rpm
Fuel System		Port Fuel Injection (SFI)
Fuel Requirement		Performance numbers achieved with 91-octane unleaded fuel
Emission Certification		SULEV II (California); Tier 2 – Bin 3 (all other states)
Evaporative Emission Certification		Zero evap.
ELECTRIC MOTORS		
Motor Generator 1 (MG1)	- Function	Generator, engine starter, transmission ratio control
	- Type	Permanent magnet motor
	- Max. voltage	AC 650V
Motor Generator 2 (MG2)	- Function	Drives front wheels, regenerative braking
	- Type	Permanent magnet motor
	- Max. voltage	AC 650V
	- Max. output	167 hp (123 kW)
Motor Generator Rear (MGR)	- Function	Drives rear wheels, regenerative braking
(AWD Model Only)	- Type	Permanent magnet motor
	- Max. voltage	AC 650V
	- Max. output	68 hp (50 kW)
HYBRID BATTERY PACK		
Type		Sealed Nickel Metal Hydride (Ni-MH)
Nominal Voltage		288V
Power Output		37 kW

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DRIVETRAIN	
Layout	Front gas engine with hybrid transaxle and front and rear electric drive motors, electric all-wheel drive
Transaxle/Transmission Type	Electronically Controlled Continuously Variable Transmission (ECVT); planetary gear unit for gear reduction and power splitting, electronic all- or front-wheel-drive control system
Designation	P313

CHASSIS AND BODY		
Body/Frame		Unitized steel
Suspension	- Front	MacPherson strut, coil springs
	- Rear	Double wishbone type, coil springs
Steering	- Type	Electric Power Steering (EPS): rack and pinion with electronic power assist
	- Overall Ratio	14.8:1
	- Turns (lock to lock)	2.79
	- Turning Circle (wall to wall)	40.0 feet
Brake System		Electronically Controlled Brake (ECB2) system with regenerative control and incorporating Anti-lock Braking System (ABS), Electronic Brake force Distribution (EBD), Brake Assist (BA) and Vehicle Dynamics Integrated Management system (VDIM)
Brake Rotors	- Front - type/diameter	Ventilated disc/12.9 in.
	- Rear - type/diameter	Disc/12.2 in.
Anti-Lock Braking System		4 channel, 4 sensor
Wheel Size/Type		18-in. x 7.5-in. (standard) 19-in. x 7.5-in. (optional)
Tire Size/Type		235/60R18 (standard) 235/55VR19 (optional)
Spare Tire/Wheel		Compact

PERFORMANCE		
0-60 mph Acceleration (mfg. results)	FWD - 7.8 seconds	AWD - 7.4 seconds
0-1/4 Mile Acceleration (mfg. results)	FWD - 16.0 seconds	AWD - 15.6 seconds
Top Track Speed	112 mph – electronically limited	
EPA Estimated Fuel Economy* (City/Hwy/Combined)	FWD – 32/28/30	AWD – 30/28/29
Coefficient of Drag (Cd)	0.33	

*2010 EPA MPG estimate. Actual mileage will vary.

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STANDARD EXTERIOR FEATURES

Overall Exterior Styling/Body Design

- 18-in. x 7.5-in. five-spoke aluminum wheels
- 235/60R18 tires
- Blue highlights added to front and rear “L” logo, engine cover, headlamp lens cover, rear combination lamp cover
- Exclusive hybrid front grille design
- Front fog lamps integrated into bumper
- “HYBRID” badge incorporated on side molding of rear doors
- Integrated color-keyed rear spoiler with rear-windshield wiper
- LED brake and tail lights
- “Lexus Hybrid Drive” engine cover
- Pronounced wheel wells give rugged stance
- Rear privacy glass
- Rear tail light housings merged with back window glass
- Side mirrors with integrated LED turn signal lamps
- Standard integrated rear spoiler that hides windshield wiper mechanism
- Water-repellant front door glass

Body Structure and Paint

- Acoustic glass windshield to reduce noise
- Anti-chipping paint applied to rocker panels and wheel housing arch sections
- Exterior colors (10): Matador Red Mica, Tungsten Pearl, Smoky Granite Mica, Obsidian, Golden Almond Metallic, Truffle Mica, Black Sapphire Pearl, Cerulean Blue Metallic, Starfire Pearl, Aurora White Pearl (Exclusive to Hybrid)
- High level of rust protection with zinc-plated steel on hood, doors and front fenders
- Highly rigid body, monocoque construction
- Measures to limit noise, vibration and harshness (NVH) have been applied throughout the vehicle
- Rear bumper protector
- Soft chip primer applied to hood for improved anti-chipping
- Sound insulation placed in door panels, instrument panel and floor mats
- UV-reducing glass used for all windows

Convenience Features

- Auto on/off headlamps
- Auto-dimming and foldable electro-chromic outside mirrors
- Fuel cap with tether
- Heated outside mirrors
- Integrated front fog lamps
- Rear intermittent wiper
- SmartAccess key system
- Variable intermittent windshield wipers

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STANDARD INTERIOR FEATURES

Interior Trim

- Carpeted floor mats (carpeted trunk mat optional)
- Chrome inside door handles
- Coat hooks
- Fabric covered sun visors with adjustable-illumination vanity mirrors and slide extensions
- Fabric roof lining
- Fiber coated interior pillars
- Genuine Walnut wood trim panels on all doors
- Genuine Walnut wood trim around shifter island, console and switch plates
- Leather-trim three-spoke steering wheel and shift knob (with premium package only)
- Light Gray or Black colored fabric-trim seats
- Metallic accents around center of instrument panel

Seats and Cargo Area

- 10-way power driver's seat: fore-aft slide; fore-aft recline; front vertical height; rear vertical height and power lumbar support
- 10-way power front passenger's seat: fore-aft slide; fore-aft recline; front vertical height; rear vertical height and power lumbar support
- Auto-retracting split tonneau cover for rear cargo area synchronized to retract with opening rear door
- Driver's seat Easy Exit (auto away/return)
- Manually adjustable (up/down) headrests (5)
- Rear center arm rest with cupholders and storage box
- Rear seat one-touch fold levers
- Reclining/sliding fold-down rear seats with 40/20/40-split
- Storage compartment under cargo area floor for smaller items

Instrumentation and Controls

- Gated six-speed automatic transmission shifter
- Organic white Light-Emitting Diode (OLED) display
- Scheduled maintenance indicator light

CONVENIENCE FEATURES

- 12-volt power outlets (3): center console box (2), cargo area (1)
- Assist grips: front (2), rear (2)
- Auto on/off headlights
- Automatic dual-zone climate control
- Center console with cupholders (2) and storage bin
- Courtesy lights mounted on doors
- Dual sliding sun visors

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CONVENIENCE FEATURES - CONT.

- Dust and pollen particle and deodorizing interior air filter
- Electric fuel door release
- First aid kit
- Front and rear map lights; cargo area light
- Front seatback pockets
- Incandescent dome light with white LED spot lights
- Incandescent foot lights
- LED illuminated center console and glove box
- Lexus Personalized Settings (LPS) to allow certain vehicle settings to be tailored to owner preference (programmable by owner)
- Manual front seatbelt anchor height adjusters
- Power door locks with anti lock-out feature
- Power tilt-and-telescopic steering column
- Power windows with one-touch auto up/down feature with jam protection for all windows
- Programmable garage door opener (HomeLink®)
- Pull-out front door storage pockets
- Rear air conditioning vents mounted on rear of center console
- Steering wheel audio controls
- Tool kit

STANDARD AUDIO SYSTEM

Lexus Premium Audio

- 9 speakers
- AM/FM antenna integrated into rear spoiler
- In-dash six-disc CD auto-changer
- Integrated XM satellite radio receiver (complimentary 90-day trial subscription)

STANDARD SAFETY AND SECURITY

Safety

- Active headrests for front seats
- Advanced technology airbag system Supplemental Restraint System (SRS) for driver and front passenger:
  - Driver dual-stage airbag uses factors including crash severity and seat track position to choose one of three possible deployment speeds.
  - Front passenger dual-stage twin-chamber airbag uses crash severity sensors to choose one of two deployment speeds. Airbag is designed to not deploy for passengers under 68.3 lbs or when child seat is detected. (Advanced airbags in compliance with FMVSS208)
- ALR/ELR seat belt retractors on all outboard seating positions except driver (ELR only)
- Brake pedal regression prevention mechanism helps reduce leg injuries in head-on impacts
- Daytime Running Lights (DRL)

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STANDARD SAFETY AND SECURITY - CONT.

- Direct-type tire pressure monitoring system
- Driver and front passenger knee airbags
- Enhanced side-impact protection
- Enhanced-VSC (Vehicle Stability Control)
- Flashing seatbelt warning light for both driver and front passenger
- Force-limiting seatbelt pre-tensioners for the driver's and front passenger's seats
- Four-sensor, four-channel Anti-lock Braking System (ABS) with Brake Assist (BA)
- Front corner windows improve visibility
- Front and rear seat-mounted side airbags designed to help protect the torso, abdomen and pelvis
- High-strength sheet steel components
- Roll-sensing front and rear side-curtain airbags
- Side impact door beams
- Soft, impact-dissipating upper interior trim
- Three-point seatbelts with pre-tensioners for all rear seating positions

Security

- Entry system with lock, two-stage unlock, trunk open and "panic" features, volume-adjustable confirmation tone and rolling code technology
- Headlight off delay feature: after locking vehicle, headlights remain illuminated for a certain period of time before automatically shutting off
- Multi-function SmartAccess remote with engine immobilizer and remote window "down" feature
- Remote-activated/key-linked illuminated entry: dome light and ignition key cylinder ring illuminate when doors are unlocked (remain illuminated for 15 seconds or until door is opened)
- Safety Connect™ with Automatic Collision Notification, Stolen Vehicle Location, Emergency Assist Button, and Enhanced Roadside Assistance (complimentary one-year trial subscription included)
- Vehicle theft-deterrent system

FACTORY OPTIONS

- 19-inch split five-spoke wheels
- Accessory connector (120V) (AWD models only; Available with Luxury Package)
- Bi-Xenon High Intensity Discharge (HID) projector headlamps with Adaptive Front-Lighting System (AFS)
- Heads-Up Display (AWD model only; Requires Navigation Package)
- Heated and ventilated front seats (Requires Premium Package)
- Intuitive Park Assist
- LED headlamps with headlamp washers, Adaptive Front-Lighting System (AFS) and Intelligent High Beams
- Mark Levinson Audio System with 15 speakers and DVD changer (Requires Navigation Package)
- Pre-Collision System and Dynamic Radar Cruise Control (AWD model only; Requires Premium Package)

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FACTORY OPTIONS - CONT.

- Rearview mirror backup monitor (non-navigation equipped vehicles only)
- Towing hitch (AWD model only)
- Towing Package (AWD model only)
- Wood and leather-trimmed steering wheel and shift knob
- Comfort Package (Requires Premium Package; and Bi-Xenon High Intensity Discharge (HID) projector headlamps or LED headlamps with headlamp washers)
  - 12 Speaker Premium Audio System
  - Adaptive Front-Lighting System
  - Automatic High-Beams
  - Auto wipers (Rain-Sensing)
  - Heated and ventilated front seats
- Luxury Package (Requires Premium, Comfort, and Navigation Packages and LED Headlights) AWD models only
  - 19-inch split five-spoke wheels
  - Auto recirculation
  - Front seat cushion extender
  - Illuminated scuff plates (front only)
  - Power retractable outer mirror
  - Semi-aniline leather-trimmed seating
  - Wide-view front monitor system
  - Wood and leather-trimmed steering wheel and shift knob
- Navigation Package (Requires Premium Package)
  - Backup monitor
  - Bluetooth® hands free phone and phonebook download capabilities
  - Lexus Enform™ with Safety Connect™: Automatic Collision Notification, Stolen Vehicle Location, Emergency Assist Button (SOS), Enhanced Roadside Assistance, Destination Assist, and eDestination (complimentary one-year trial subscription)
  - Lexus Insider™
  - Navigation (Generation 6 system)
  - Remote Touch navigation controller
  - Voice command casual-language voice recognition system
  - XM NavTraffic®/NavWeather™ (complimentary 90-day trial subscription)
  - XM® Sports and Stocks (included with XM® radio subscription)
- Premium Package
  - Driver ‘s seat memory - three settings (steering wheel, mirror, seat)
  - Electrochromic outside mirror (auto-dimming)
  - iPod® head unit control / USB
  - Leather-trimmed seats
  - One-touch open/close, tilt and slide moonroof
  - Power rear door
  - Rear armrest storage w/lid
- Sports Package
  - 19-inch wheels, split-five spoke with Superchrome finish
  - Sport-tuned suspension