

For Immediate Release

2009 Nissan Altima Hybrid Specifications

Specifications are based on latest product information available at the time of release

Mechanical

Gasoline Engine	
Type	QR25
Cam design	DOHC
Orientation	Transverse
Cylinders/configuration	I4
Block/head composition	Aluminum/aluminum
Displacement	2.5 liters (2488 cc)
Horsepower	158 hp @ 5,200 – 6,000 rpm
Torque	162 lb-ft @ 2,800 – 4,800 rpm
Bore & stroke (mm)	89.0 mm x 100.0 mm
Compression ratio (:1)	9.6
Maximum engine speed	6,200 rpm
Induction system	Sequential multi-point electronic fuel injection
Ignition system	Electronic (direct)
Valvetrain	4-valves per cylinder with Continuously Variable Timing Control System (CVTCS)
Engine mounts	3 fluid filled, 1 conventional
Recommended fuel	Regular unleaded
Emissions certification level	Advanced Technology – PZEV
Exhaust	Dual exhaust
Electric Motor	
Type	Permanent magnet AC synchronous motor
Horsepower	40 hp @ 0 – 1,500 rpm (assisted power)
Torque	199 lb-ft @ 0 – 1,500 rpm (105 kW @ 4,500 rpm)
Voltage	650V maximum
Battery	
Type	Sealed Nickel Metal Hydride (Ni-MH)
Voltage	244.8V
Power (peak horsepower rating)	40 hp (30 kW)
Hybrid System Net Power	
Horsepower	198 hp (148 kW)

Transmission and Drive System

Drive configuration	Front engine/front-wheel drive
Vehicle Dynamic Control (VDC) with Traction Control System (TCS)	S
Transmission type	Electronically controlled Continuously Variable Transmission (eCVT)
Transmission control	Electronic, hybrid-type
Shifter style	Automatic, straight-type
Gear ratios	
High	TBD
Low	TBD
Reverse	TBD
Final gear ratio	TBD

Brakes

Front (in.)	11.7x1.02t Vented disc
Rear (in.)	11.5x.35t Self-adjusting solid disc
Brake control	Brake Assist (BA), Electronic Brake force Distribution (EBD) and Regenerative Braking
Anti-lock Braking System (ABS)	S
Parking brake	Foot brake

Steering

Type	Electric power-assisted rack-and-pinion
Overall ratio	16.2:1
Turns (lock-to-lock)	2.83
Turning diameter (curb-to-curb, ft.)	36.1
Steering Wheel	
Type,	4-spoke
Material	Urethane S; leather-wrapped O
Cruise control switches	S
Audio, Bluetooth® switches	O
Adjustments	Manual tilt, telescope

Suspension

Front	
Type	Independent strut w/ coil springs
Stabilizer bar diameter	23.0 mm
Rear	
Type	Multi-link independent
Stabilizer bar diameter	17.3 mm

Body/Chassis

Type	Unibody
Primary materials	Corrosion-resistant and ultra-high strength steel

Exterior

Wheels & Tires

Wheels		
	Material	Aluminum-alloy (painted finish)
	Size (in.)	7JJx16
Tires		
	Type	All-season
	Size	P215/60R16
	Brand, model	Continental, ContiPro Contact
Spare tire	Size	T135/90D16
	Location	Trunk

Lights

Headlights		
	Type	Halogen
	Auto on/off	O
	Auto cut-off (5 min. after ignition is switched off)	S
	Center high mount stop light	S (on spoiler)

Outside Mirrors

Type		Body-colored, dual
Adjustment	Power remote-controlled	S
	Manual folding	O
Heated		O (includes timer)

Moldings & Trim

Bumpers		Body-colored
Door handles		Body-colored
Splash guards (body-colored)		S
Grille finish		Dark grey w/ chrome surround
Spoiler		O
Body side moldings		Body-colored

Glass

Windshield		UV reducing solar glass, green-tinted (with dark upper shade)
Front & rear door windows		UV reducing solar glass, green-tinted
Rear window		

Interior

Seating

Capacity	5 passenger	
Materials	Cloth	S
	Leather-appointed	O
Front seats	Style	Bucket
	Heated	O
	Driver's seat	6-way manual (8-way power opt.)
	Power lumbar	O
	Passenger's seat	4-way manual
	Head restraints	Height-adjustable dual Active Head Restraints
	Seatback pockets	S
Rear seats	Style	3-across bench
	Head restraints	High-back seat-integrated type

Audio/Nav

System		
AM/FM/CD (6 speakers)	S	
Bose® AM/FM/CD, MP3/WMA compatible (9 speakers)	O	
Factory-activated XM® Satellite Radio	O	
Speed-sensitive auto volume control	O	
Radio Data System (RDS)	O	
Antenna		
In-glass	S	
Diversity	S	
Nissan Navigation System w/XM NavTraffic®	O	
Energy Flow Display	O	

Trim

Accents		
Blond: Wood-tone	O	
Charcoal: Metallic-tone	O	
Sunvisors	Driver and passenger; illuminated vanity mirrors and extenders (opt.)	
Shift knob		
Resin	S	
Leather-wrapped	O	
Trunk		
Carpeting	S	
Inside lid trim	S	

HVAC/Defogger	
Air conditioning/heater	Dual zone automatic temperature control
Front window defogger	w/ front and side defogger vents
Rear window defogger	w/ indicator light and timer
Rear heater ducts	S
Rear air conditioning vents	O
Microfilter ventilation	S

Instrumentation		
Analog gauges	Fine Vision	Speedometer, hybrid power meter
	Standard	Fuel level
Digital gauges		Dual trip odometer, trip computer, outside temperature, clock, hybrid power meter

Convenience Features		
Automatic Speed Control Device (ASCD)	S (cruise control)	
Power windows	Auto up/down w/ anti-pinch plus key cylinder operated front up/down	
Power door locks w/auto locking system	S	
Steering wheel-mounted control switches	S: ASCD P: Bluetooth® Hands-Free Phone System, navigation audio controls	
Nissan Intelligent Key™	2 keyfobs	
RearView Monitor	O	
Cupholders	Front (5)	3 in center console, 2 in-doors
	Rear (4)	2 in armrests, 2 in doors
12-volt outlets (2)	Instrument panel, center console	
Coat hangers	2 in rear	
Glove box	Bin/shelf type with damper and lock	
Retained accessory power (windows/moonroof)	S	
Auto-dimming inside rearview mirror	O	
HomeLink® Universal Transceiver	O	
Front map lights (2)	S	
Rear reading lights (2)	S	
Illuminated engine start/stop button	S	
Illuminated switches	S	

Safety & Security

Passenger Restraint Systems	
Nissan Advanced Air Bag System (AABS) with dual-stage supplemental front air bags with seat belt and occupant classification sensors	S
Front seat-mounted side impact	S

supplemental air bags
 Roof-mounted curtain side impact supplemental air bags for front and rear-seat outboard occupant head protection

S

Seatbelts	3-point ALR/ELR Pretensioners Load-limiters	All (including inboard)(driver ELR only)
		Front
		Front
Front-seat Active Head Restraints		S

Child Safety

Child seat upper tether anchor	S
LATCH System	S
Child safety rear door locks	S
Power window lockout button	S
Emergency Inside Trunk Release	S

Passive Safety

Energy-absorbing steering column	S
Front & rear crumple zones	S
Hood buckling creases and safety stops	S
Body side reinforcements	S
Shift interlock system	S
Tire Pressure Monitoring System (TPMS)	S

Security

Steering wheel lock (when powered off)	S
Nissan Vehicle Immobilizer System	S
Vehicle Security System (VSS)	S

Dimensions

Exterior

Wheelbase	109.3 in.
Overall Length	189.8 in.
Overall Width	70.7 in.
Overall Height	57.9 in.
Track Width (front/rear)	61.0 in./60.8 in.
Minimum Ground Clearance	5.6 in
Coefficient of Drag (Cd)	0.31/0.30 w/spoiler

Interior

Seating capacity	5 passengers
Front	
Head room (w/o moonroof)	40.6 in.
Leg room	44.1 in.
Hip room	56.8 in.
Shoulder room	55.7 in.
Rear	
Head room (w/o moonroof)	36.8 in.
Leg room	35.8 in.
Hip room	52.5 in.
Shoulder room	55.5 in.

Passenger compartment volume	100.7 ft. ³
Cargo volume	10.1 ft. ³
Total volume	110.8 ft. ³

Weights & Capacities

Weights	
Curb	
Front	2,023 lbs.
Rear	1,448 lbs.
Total	3,471 lbs.
Weight distribution (front/rear)	58% / 42%
Gross Vehicle Weight Rating (GVWR)	4,537 lbs.

Capacities	
Fuel tank	20.0 gal.
Engine oil	4.9 qt.
Engine coolant	8.0 qt.
Towing	
Trailer (maximum, when properly equipped)	1,000
Tongue	100

Fuel Economy	
City	35 mpg
Highway	33 mpg
Classification	Mid-size

Packages & Accessories

Packages	
Altima Hybrid Convenience Package	8-way power driver's seat, automatic on/off headlights, dual sun visors w/ illuminated vanity mirrors & extenders, leather-wrapped steering wheel, premium interior finisher (blond interior only), steering wheel-mounted audio controls, trunk net, front passenger power window w/ one-touch auto up/down & auto reverse, key cylinder-operated front windows up/down, keyfob-operated front windows up/down, rear spoiler

Packages, continued	
Altima Hybrid Connection Package	Contents of Convenience Package, plus: leather-appointed seats and door trim, driver's power lumbar support, premium interior trim finisher (wood on blond interior, metallic on charcoal interior), Bose AM/FM/CD6 w/ 9 speakers, front heated seats, XM [®] Satellite Radio (XM [®] subscription required, sold separately), HomeLink [®] Universal Transceiver, auto-dimming inside rearview mirror, leather-wrapped shift knob, MP3/WMA compatibility, Radio Data System (RDS), Bluetooth [®] Hands-free Phone System, speed-sensitive audio volume, manual folding outside rearview mirrors w/ integrated turn signals, compass, illuminated console lighting, power moonroof w/ sunshade
Altima Hybrid Technology Package	Contents of Connection Package, plus: Nissan Navigation System with 6.5-inch color monitor, power energy flow display with MPG history, RearView Monitor, XM [®] Satellite Radio w/ XM NavTraffic [®] real-time traffic information
Moonroof Option	Power sliding tinted glass moonroof with tilt, sliding sunshade and one-touch open/close

S | Standard
O | Optional