

2012 Infiniti M37/M56

Technical Specifications, Features and Options

Source of Production: Nissan Motor Co., Ltd.

Assembly Plant Location: Tochigi, Japan

Note: 2012 M Hybrid specifications available at InfinitiNews.com

ENGINE	M37	M56
Type	VQ37VHR DOHC 24-valve	VK56VD DOHC 32-valve
Orientation	Longitudinal	
Cylinders / configuration	V6 with molybdenum coated pistons	V8 with molybdenum coated pistons
Block / head composition	Aluminum-alloy	Aluminum-alloy
Displacement	3.7 liters	5.6 liters
Horsepower	330 hp @ 7,000 rpm	420 hp @ 6,000 rpm
Torque	270 lb-ft @ 5,200 rpm	417 lb-ft @ 4,400 rpm
Bore x stroke (mm)	95.5 x 86.0	98.0 x 92
Compression ratio (:1)	11.0	11.5
Induction system	Sequential multi-port fuel injection	Sequential multi-port fuel injection
Fuel delivery system	-	Direct Injection Gasoline™
Valvetrain	4 valves per cylinder	4 valves per cyl.
Engine Mounts (Type)	Side: 2 (liquid-filled) Rear (RWD models): 1 (liquid-filled) Rear (AWD models): 1 (solid)	
Recommended fuel	Premium (required)	Premium (required)
Emissions system	Closed loop feedback system with 2 catalyts	Closed loop feedback system with 3-way catalyst
Exhaust	Dual exhaust with polished tips	
Maximum engine speed	7,500 rpm	6,700 rpm
Emissions certification level	TBD	TBD

ELECTRICAL	M37	M56
Electronic ignition system	S	
Starter rating	1.6 kW	2.0 kW
Alternator	12V - 150 Amp	

DRIVETRAIN	M37		M56	
	RWD	AWD	RWD	AWD
Drive configuration				
Rear-wheel Drive	S	-	S	-
Intelligent All-Wheel Drive	-	S	-	S
7-speed electronically controlled automatic transmission with Adaptive Shift Control (ASC), and manual shift mode with Downshift Rev Matching	S			
Solid magnesium paddle shifters	P	-	P	-

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Gear ratios (:1)	M37	M56
1 st	4.783	4.783
2 nd	3.103	3.103
3 rd	1.984	1.984
4 th	1.371	1.371
5 th	1.000	1.000
6 th	0.871	0.871
7 th	0.776	0.776
Reverse	3.859	3.859
Final drive ratio (:1)	3.357	2.611

BODY, SUSPENSION AND STEERING	M37		M56	
	RWD	AWD	RWD	AWD
Body type	Corrosion resistant and high strength steel unibody construction, aluminum-alloy hood, doors and door structures			
Front suspension	Independent double wishbone with coil springs and stabilizer bar			
Rear suspension	Independent multi-link with coil springs and stabilizer bar			
Sport-tuned suspension with upgraded springs and double-piston shock absorbers	P	-	P	-
Steering ratio (:1)	16.9	16.6	16.9	16.6
Turning diameter (curb-to-curb) ft	36.7	37.4	36.7	37.4
Turns (lock-to-lock)	3.09	2.94	3.09	2.94
Steering type	Electronically-controlled vehicle-speed-sensing variable-assist power rack-and-pinion			
Steering wheel type	4-spoke leather-appointed			
Tilt	Power with memory			
Telescopic	Power with memory			
Controls	Audio, cruise control, Bluetooth®			
Premium Stitched	Premium stitched with Sport Package (RWD models)			
4-Wheel Active Steer (4WAS)	P	-	P	-

BRAKES	M37		M56	
	RWD	AWD	RWD	AWD
Front: 12.6-inch x 1.1-inch power-assisted vented disc	S			
Rear: 12.1-inch x 0.6-inch power-assisted vented disc				
Sport Brakes: 14.0 x 1.3-inch 4-piston front, 13.8 x 0.8-inch 2-piston rear	P	-	P	-
4-channel/4-sensor/4-wheel Anti-lock Braking System (ABS)	S			
Brake Assist, Electronic Brake Force Distribution	S			

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WHEELS AND TIRES	M37		M56	
	RWD	AWD	RWD	AWD
Wheels				
18 x 8.0-inch, double 5-spoke aluminum-alloy wheels	S			
18 x 8.0-inch tri-split 5-spoke aluminum-alloy wheels with "chrome color coat" finish	O			
20 x 9.0-inch, split 5-spoke aluminum-alloy wheels	P	-	P	-
Tires				
245/50R18 V-rated all-season performance tires	S			
245/40R20 W-rated summer performance tires	P	-	P	-
Temporary spare tire (165/80R17)	S			
Temporary spare tire (155/80R18)	P	-	P	-
Tire Pressure Monitoring System (TPMS) with individual tire pressure display	S			

EXTERIOR DIMENSIONS (inches unless noted otherwise)	M37		M56	
	RWD	AWD	RWD	AWD
Wheelbase	114.2			
Overall length	194.7			
Overall width	72.6			
Overall height	59.1	59.6	59.1	59.6
Front track width	62.0			
Rear track width	61.8	61.6	61.8	61.6
Minimum ground clearance	6.0, 5.9 Sport Pkg.	5.8	5.9, 5.9 Sport Pkg.	5.7
Coefficient of Drag (Cd)	0.27			
Trunk liftover height	TBD	TBD	TBD	TBD

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EXTERIOR FEATURES AND OPTIONS	M37		M56	
	RWD	AWD	RWD	AWD
Automatic on/off High Intensity Discharge (HID) xenon headlights with windshield wiper interlock	S			
Adaptive Front lighting System (AFS) with auto-leveling headlights	P			
Body-color front and rear bumpers	S			
Green-tinted glass with dark-tint upper windshield band and UV cut	S			
Chrome grip-type door handles	S			
Front door handle courtesy lights	S			
Power folding, heated outside mirrors with reverse tilt-down feature	S			
Rear window defroster with timer	S			
Rear center high-mounted stop lamp (CHMSL)	S			
Chrome grille with large Infiniti logo emblem	S			
Unique sport front fascia	P	-	P	-
Tinted front grille and headlight housings	P	-	P	-
Power sliding tinted glass moonroof with one-touch auto-open/close, tilt feature and sliding sunshade	S			
Rain-sensing variable intermittent front windshield wipers	S			

INTERIOR DIMENSIONS (inches)	Front	Rear
Head room	39.1	37.7
Shoulder room	58.4	56.7
Hip room	54.3	53.5
Leg room	44.0	36.2

INSTRUMENTATION	
Fine Vision electroluminescent speedometer, tachometer, coolant temperature and fuel gauges	S
Outside temperature display	
Center display with odometer with dual trip meters, gear select identification (both automatic and manual shift mode)	

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INTERIOR FEATURES AND OPTIONS	M37		M56	
	RWD	AWD	RWD	AWD
Leather-appointed seating	S			
Perforated semi-aniline leather seating	P			
10-way power driver's and front passenger's seats including 2-way power lumbar support	S			
Heated front seats	S			
Climate-controlled front seats (heated and cooled)	P		S	
Entry/exit assist for driver's seat and steering wheel	S			
Adjustable front seat active head restraints and adjustable rear head restraints	S			
Sequential welcome lighting illuminated entry system	S			
Front seatback map pockets	S			
Stainless steel sill plates with Infiniti lettering	S			
Genuine leather-wrapped steering wheel and gearshift knob	S			
Heated steering wheel	P			
Front door map pockets	S			
Suede-like headliner, premium soft-touch material for armrests, door inserts, center console and kneepads; premium stitched meter hood	P			
Ceiling-mounted assist grips	S			
Dual occupant memory system for driver's seat, steering wheel, outside mirrors linked to individual Intelligent Keys	S			
Auto-dimming inside rear view mirror	S			
HomeLink® Transceiver	S			
Power rear sunshade	P			
Genuine Japanese Ash wood accents on doors, instrument panel and center console	S			
White Ash silver-powdered wood trim	P			
Infiniti analog clock	S			
Aluminum pedal accents	P	-	P	-
Dual front and rear cupholders	S			
Rear armrest with cup holders and storage	S			

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AUDIO SYSTEM	M37		M56	
	RWD	AWD	RWD	AWD
6-speaker audio system with AM/FM/CD with MP3/WMA playback capability, Radio Data System (RDS), speed-sensitive volume control	S	S	-	-
Bose® 2-channel, 10-speaker (including subwoofer) Premium Audio system	P	P	S	S
Bose® Studio Surround® sound system with digital 5.1 channel decoding, 16 speakers and Bose® Centerpoint® 2 signal processing	P			
Single in-dash CD player	S	S	-	-
Single in-dash CD/DVD player	P	P	S	S
USB Connection Port for iPod® interface and other compatible devices	S			
9.3GB Music Box® hard drive	P	P	S	S
Streaming Audio via Bluetooth®	P	P	S	S
XM® Satellite Radio	S			
Rear window diversity antenna	S			

COMFORT AND CONVENIENCE FEATURES	
Active Noise Control (ANC)	S
Cruise control with steering wheel-mounted switches	S
Intelligent Cruise Control (Full-Speed Range)	P
Distance Control Assist (DCA)	P
Active Trace Control	P
Eco Pedal	P
Bluetooth® Hands-free Phone System	S
Dual Zone Automatic Temperature Control system with mild flow vent located on upper dash	S
Forest Air™ system with Advanced Auto Recirculation, Breeze Mode, Plasmacluster™ Air Purifier and Grape Polyphenol filter	P
RearView Monitor	S
7.0-inch color vehicle information display	S
One-touch auto-up/down front windows with anti-pinch feature and remote keyless entry-activated all windows open mode	S
Power door locks with selective unlocking, auto lock feature and remote keyless entry	S
Power tilt/tele. steering column w/ memory	S
Center console with dual-adjustable armrests, dual level storage and 12-volt power outlet	S
Locking glove compartment with light	S
Dual front illuminated visor vanity mirrors	S
Dual overhead map lights (front and rear)	S

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COMFORT AND CONVENIENCE FEATURES, CONT.		
Remote trunk release	S	
Infiniti Intelligent Key with Illuminated Push Button Ignition	S	
Enhanced Intelligent Key memory stores an occupant memory position, and last used audio, climate control, and navigation settings	S	
Retained accessory power for windows and moonroof	S	
Infiniti Hard Drive Navigation System with 8-inch WVGA color touch-screen display, Lane Guidance and 3-D building graphics	P	S
Infiniti Voice Recognition for audio, navigation, and vehicle information systems	P	S
XM NavTraffic [®] with Real-Time Traffic information	P	S
XM NavWeather [™] with Real-Time Weather and 3-day forecast	P	S
Zagat [®] Survey Restaurant Guide	P	S

CAPACITIES	M37	M56
Seating capacity	5	
Fuel tank (gals.)	20.0	
Passenger compartment volume (cubic feet)	103.6	
Cargo volume (cubic feet, w/temp spare tire)	14.9	
Engine oil (qts.)	5.2	6.4
Engine coolant (qts.)	8.9	11.5

CURB WEIGHTS		M37		M56	
		RWD	AWD	RWD	AWD
Curb weight (lbs.)	Front	2,072	2,224	2,246	2,405
	Rear	1,786	1,819	1,782	1,819
	Total	3,858	4,063	4,028	4,224
Weight distribution (% fr/rr)		54/46	55/45	56/44	57/43
GVWR (lbs.)		5,006	5,137	5,143	5,279

EPA MILEAGE ESTIMATES <i>(Actual mileage may vary)</i>	M37		M56	
	RWD	AWD	RWD	AWD
City	18	17	16	16
Highway	26	24	25	23
EPA Classification	Mid-size			

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PASSENGER RESTRAINT SYSTEMS	
Infiniti Advanced Air Bag System (AABS) with dual-stage supplemental front air bags with seat belt and occupant classification sensors	S
Driver and front passenger seat-mounted side-impact supplemental air bags	S
Roof-mounted curtain side impact supplemental air bags for front and rear-seat outboard occupant head protection	S
Front-seat Active Head Restraints with 4-way manual adjustment	S
Front Pre-Crash Seatbelts	P
Front seat belts with adjustable upper anchors, pretensioners and load limiters	S
3-point front and rear seat belts with Automatic Locking Retractor (ALR) and Emergency Locking Retractor (ELR) (driver's seat ELR only)	S

SAFETY FEATURES	
Shift interlock system	S
Energy-absorbing steering column	
Hood buckling creases and safety stops	
Front and rear crumple zones	
Body side reinforcements	
Child safety rear door locks	
LATCH System (Lower Anchors and Tethers for Children)	
Power window lockout button	
Emergency inside trunk release	
Tire Pressure Monitoring System (TPMS) with individual tire pressure display	
Lane Departure Warning (LDW) and Prevention (LDP) systems	P
Blind Spot Warning (BSW)	P
Blind Spot Intervention™ (BSI)	P
Intelligent Brake Assist (IBA) with Forward Collision Control (FCW)	P
Vehicle Dynamic Control (VDC) with Traction Control System (TCS)	S

SECURITY FEATURES	
Remote Keyless Entry system	S
Vehicle Security System	
Infiniti Vehicle Immobilizer System	

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PACKAGES AND OPTIONS	M37		M56	
	RWD	AWD	RWD	AWD
Premium Package: Infiniti Hard Drive Navigation System, Voice Recognition for audio, navigation and vehicle information systems, 8-inch VGA color touch-screen display, XM NavTraffic [®] with Real-Time Traffic Information, XM NavWeather [™] with Real-Time Weather and 3-day forecast, Zagat [®] Restaurant Guide; Bose [®] 2-channel 10-speaker Premium Audio system; 9.3GB Music Box [®] hard drive; streaming audio via Bluetooth [®] ; climate-controlled front seats; heated steering wheel	O		S	
Deluxe Touring Package: Bose [®] Studio Surround [®] sound system with digital 5.1-channel decoding, 16 speakers; power rear sunshade; Forest Air [™] system with Advanced Auto Recirculation, Breeze Mode, Plasmacluster [™] Air Purifier and Grape Polyphenol filter; semi-aniline leather seating; unique quilted seat pattern with contrast piping; White Ash silver-powdered wood trim; additional seat bolstering, suede-like headliner; premium soft-touch material for armrests, door inserts, center console and knee pads; premium stitched meter hood, power rear sunshade	O (req. Premium Package)		O	
Sport Package (M37): 20-inch split 5-spoke aluminum-alloy wheels with 245/40R20 W-rated summer tires; Sport-tuned suspension with upgraded springs and double-piston shock absorbers; front and rear Sport Brakes; 4-Wheel Active Steer (4WAS); solid magnesium paddle shifters; sport seats (enhanced bolstering, shape); aluminum pedal accents; premium stitched meter hood; sport steering wheel and shift knob; unique front fascia; tinted front grille and headlight housings	O (Req. Prem. Pkg.)	-	-	-
Sport Package (M56): Includes contents of Sport Package (M37) and Sport Touring Package	-	-	O	-
Sport Touring Package: Bose [®] Studio Surround [®] sound system with digital 5.1-channel decoding, 16 speakers; power rear sunshade; Forest Air [™] system with Advanced Auto Recirculation, Breeze Mode, Plasmacluster [™] Air Purifier and Grape Polyphenol filter	O (Req. Sport Pkg.)	-	-	-

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Technology Package: Intelligent Cruise Control (Full-Speed Range); Lane Departure Warning (LDW) and Lane Departure Prevention (LDP); Distance Control Assist (DCA); Intelligent Brake Assist (IBA) with Forward Collision Warning (FCW); Blind Spot Warning (BSW) and Blind Spot Intervention™ (BSI) systems; Front Pre-Crash Seat Belts; Active Trace Control; Eco Pedal; Adaptive Front lighting System (AFS) with auto-leveling headlights	O (Req. Premium Pkg.)	O (Req. Deluxe Touring Pkg. or Sport Pkg.)	O (Req. Deluxe Touring Pkg.)
18-inch Wheel Package: 18-inch tri-split 5-spoke aluminum-alloy wheels; 245/50R18 V-rated all-season tires	O (Req. Deluxe Touring Pkg.)		

O – Optional

S – Standard

P – Included in Package

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