

2009 Infiniti M35/M45

Technical Specifications, Features and Options

Source of Production: Nissan Motor Co., Ltd.

Assembly Plant Location: Tochigi, Japan

ENGINE	M35	M45
Type	VQ35HR DOHC 24-valve	VK45 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	3.5 liters	4.5 liters
Horsepower	303 hp @ 6,800 rpm	325 hp @ 6,400 rpm
Torque	262 lb-ft @ 4,800 rpm	336 lb-ft @ 4,000 rpm
Bore x stroke (mm)	95.5 x 81.4	93.0 x 82.7
Compression ratio (:1)	10.6	10.5
Induction system	Sequential multi-port fuel injection	2-position variable
Valvetrain	4 valves per cylinder	4 titanium valves per cyl.
Continuously Variable Valve Timing Control System (CVTCS)	Intake Camshaft	
Recommended fuel	Premium (recommended)	Premium (required)
Emissions system	TBD	Closed loop feedback system with 3-way catalyst
Exhaust	Stainless steel quad-tipped dual exhaust	
Maximum engine speed	7,500 rpm	6,600 rpm
Emissions certification level	50 state - LEV2	50 state - LEV2

ELECTRICAL	M35	M45
Electronic ignition system	S	S
Starter rating	1.7 kW	2.0 kW
Alternator	12V - 150 AMP	

DRIVETRAIN	M35		M45	
	RWD	AWD	RWD	AWD
Drive configuration				
Rear-wheel Drive	S	-	S	-
All-wheel Drive (ATTESA E-TS)	-	S	-	S
5-speed electronically controlled automatic overdrive transmission with DS mode, manual shift mode with Downshift Rev Matching	-	S	S	
7-speed electronically controlled automatic overdrive transmission with DS mode, manual shift mode with Downshift Rev Matching	S	-	-	
Vehicle Dynamic Control (VDC) with Traction Control System (TCS) and cancel switch	S			

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Gear ratios (:1)	V6 – 7 spd	V6 – 5-spd	V8 – 5 spd
1 st	4.924	3.841	3.827
2 nd	3.194	2.352	2.368
3 rd	2.043	1.529	1.520
4 th	1.412	1.000	1.000
5 th	1.000	0.839	0.834
6 th	0.862	-	-
7 th	0.772	-	-
Reverse	3.972	2.764	2.613
Final drive ratio (:1)	3.357	3.692	3.357 RWD, 3.692 AWD

BODY, SUSPENSION AND STEERING	M35		M45	
	RWD	AWD	RWD	AWD
Body type	Corrosion resistant and high strength steel unibody construction, aluminum-alloy hood, deck lid and door structures			
Front suspension	Independent double wishbone with stabilizer bar and coil springs			
Rear suspension	Independent multi-link with stabilizer bar and coil springs			
Steering ratio (:1)	16.4	16.1	16.4	16.1
Turning diameter (curb-to-curb) ft	36.7	36.1	36.7	36.1
Turns (lock-to-lock)	3.0			
Steering type	Electronically-controlled vehicle-speed-sensing variable-assist power rack-and-pinion			
Steering wheel type	4-spoke leather-appt. with perf. grips (RWD/AWD) Sport 4-spoke leather-appt. with unique stitching (Sport Pkg.)			
Tilt Telescopic Controls	Power with memory Power with memory Audio, cruise control, Bluetooth®			
Rear Active Steer	S on Sport Pkg.			

BRAKES	
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	
Electronic Brake force Distribution (EBD) and Brake Assist (BA)	
4-channel/4-sensor/4-wheel Anti-lock Braking System (ABS)	
Preview Braking	P

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WHEELS AND TIRES	M35			M45		
	RWD	Sport Pkg	AWD	RWD	Sport Pkg	AWD
Wheels						
18-inch 5-split spoke cast aluminum-alloy wheels (8.0JJ x 18)	S	-	S	S	-	S
19-inch 5-split spoke cast aluminum superlight alloy wheels with premium titanium finish (8.5JJ x 19)	-	S	-	-	S	-
Tires						
245/45R18 96V-rated all-season radial tires	S	-	S	S	-	S
245/40R19 94W-rated high-performance tires	-	S	-	-	S	-
Temporary-size spare tire (145/80D17)	S					
Tire Pressure Monitoring System (TPMS) (direct reading)	S					

EXTERIOR DIMENSIONS (inches unless noted otherwise)	M35			M45		
	RWD	Sport Pkg	AWD	RWD	Sport Pkg	AWD
Wheelbase	114.2					
Overall length	194.1	194.3	194.1	194.1	194.3	194.1
Overall width	71.1					
Overall height	59.4	59.5	60.0	59.4	59.5	60.0
Front track width	60.5	60.3	61.1	60.5	60.3	61.1
Rear track width	61.0	60.8	60.7	61.0	60.8	60.7
Minimum ground clearance	5.1	5.3	5.5	5.1	5.3	5.5
Coefficient of Drag (Cd)	0.28					
Trunk liftover height	28.0		28.6	28.0		28.6
Step-in height						
Front	15.6	15.7	16.2	15.6	15.7	16.2
Rear	15.7	15.8	16.3	15.7	15.8	16.3

EXTERIOR FEATURES AND OPTIONS	M35		M45	
	RWD	AWD	RWD	AWD
High Intensity Discharge (HID) xenon headlights with Adaptive Front lighting System (AFS) and auto-leveling	S			
Headlight auto on/off feature with variable-off delay and variable-on sensitivity				
Body-color front and rear bumpers				
Green-tinted glass with dark-tint upper windshield band and UV cut				
Chrome grip-type door handles with body-color inserts				
Dual body-color power remote-controlled heated outside mirrors with timer, memory driver's automatic dimming and tilt-down in reverse gear				
Rear window defroster with timer				

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Rear center high-mounted stop lamp	S
Chrome grille with large Infiniti logo emblem	
Power sliding glass moonroof with one-touch auto-open/close and rear tilt with anti-pinch	

INTERIOR DIMENSIONS (inches)	Front	Rear
Head room – standard/Premium Package	39.6	37.8/37.1
Shoulder room – standard/Premium Package	58.2	56.9/56.7
Hip room	55.1	53.9
Leg room – standard/Premium Package	44.2	37.3/36.2

INTERIOR FEATURES AND OPTIONS	M35		M45	
	RWD	AWD	RWD	AWD
10-way power driver's and front passenger's seat with power lumbar support	S			
Leather-appointed seats and head restraints				
Adjustable front seat active head restraints and adjustable rear head restraints				
Front seat-back pockets				
Stainless steel sill plates with lighted Infiniti lettering				
Genuine leather-wrapped steering wheel and gearshift knob				
Front door pockets				
Ceiling-mounted assist grips				
Driver's entry/exit system with two-position memory function				
Auto-dimming inside rear view mirror				
Rear view mirror mounted compass and HomeLink™ Transceiver with Rolling Code Compatibility				
Rear window power sunshade	P (not avail. w/Sport Pkg.)			
African Rosewood accents on doors, instrument panel and center console	S (Opt. w/Sport Pkg.)			
Sport front driver's and passenger's seats with larger bolstering and premium stitching	S on Sport Pkg.			
Genuine Aluminum accents on doors, instrument panel and center console	S on Sport Pkg.			
Heated and power reclining rear seats	P (not avail. w/Sport Pkg.)			
Climate controlled front seats	S			

CAPACITIES	
Seating capacity	5
Fuel tank (gals.)	20
Passenger compartment volume (cubic feet)	S=105.2;O=103.1 (Premium Package)
Cargo volume (cubic feet, w/temp spare tire)	14.9
Engine oil (qts.)	5.3 (V6), 7.1 (V8)
Engine coolant (qts.)	9.7

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CURB WEIGHTS		M35		M45	
		RWD	AWD	RWD	AWD
Curb weight (lbs.)	Front	2,059	2,206	2,167	2,295
	Rear	1,806	1,852	1,799	1,839
	Total	3,865	4,058	3,966	4,134
Weight distribution (% fr/rr)		53/47	54/46	54/46	55/45
GVWR (lbs.)		4,938	5,031	5,024	5,143

EPA MILEAGE ESTIMATES <i>(Actual mileage may vary)</i>		M35		M45	
		RWD	AWD	RWD	AWD
City		17	16	16	14
Highway		25	22	21	20
EPA Classification		Mid-size			

AUDIO SYSTEM					
Precision Phased, 160-watt 6-speaker audio system, in-dash 6-CD autochanger with MP3 and WMA playback capability, steering wheel audio controls and speed-sensitive volume		S			
Bose® 2-channel premium 234-watt audio system with 8-speakers, and Audio Pilot™ Noise Compensation		P			
Bose® Studio Surround™ premium 308-watt audio system with digital 5.1 channel decoding, 14-speakers, including personal speakers in the front seats, A/V input jacks, and Audio Pilot™ Noise Compensation		P			
Mobile Entertainment System – Center console-mounted DVD player with motorized, ceiling-mounted 8-inch color monitor, 2 sets of wireless headphones, RCA-type audio/video inputs on the rear of the center console and a remote control	P	-	P	-	
Rear seat audio controls	P (not avail. w/Sport Pkg.)				
Rear window diversity antenna	S				
XM® Satellite Radio	S				

COMFORT AND CONVENIENCE FEATURES					
Cruise control with steering wheel switches		S			
Dual Zone Automatic Temperature Control system with micro filter and rear air vent					
7.0-inch color LCD vehicle information system/driver information display					
One-touch auto-up/down front windows with anti-pinch feature and remote keyless entry-activated all windows open mode					
Front seat entry/exit assist with cancellation capability					
Remote trunk release					

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COMFORT AND CONVENIENCE FEATURES, CONT.	
Rain-sensing front windshield wipers	S
Power door locks with selective unlocking feature, auto lock feature and remote keyless entry	
Power tilt and telescopic steering column with memory	
Center console with dual-adjustable armrests, dual level storage and 12-volt power outlet	
Illuminated entry/exit system with time delay fade-out feature	
Locking glove compartment with light	
Dual illuminated visor vanity mirrors	
Driver and front-passenger double sun visors with extenders	
Front door map pockets	
Dual overhead map lights (front and rear)	
Dual front cup holders with cover	
Rear armrest with cup holders and storage	
Fully carpeted trunk with cargo net	
Infiniti Intelligent Key with push-button ignition system	
Bluetooth® Hands-free Phone System	
Retained accessory power - moonroof/windows	
Infiniti Voice Recognition System which controls audio, vehicle information system, HVAC, optional navigation, and Bluetooth-compatible phones	P
Intelligent Cruise Control (ICC)	P
SAFETY AND SECURITY FEATURES	
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 supplemental air bags	
Roof-mounted curtain side impact supplemental air bags for front and rear-seat outboard occupant head protection	
Front-seat Active Head Restraints	
3-point front seat belts with adjustable upper anchors, pretensioners and load limiters	
3-point front and rear seat belts with ALR and ELR (front seats and center rear ELR only)	
Shift interlock system	
Energy-absorbing steering column	
Hood buckling creases and safety stops	
Front and rear crumple zones	
Body side reinforcements	

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Child safety rear door locks	S
LATCH System (Lower Anchors and Tethers for Children)	
Power window lockout button	
Emergency inside trunk release	
Steering wheel lock	
Remote Keyless Entry system	
Vehicle Security System	
Brake-Activated Front Pre-Crash Seatbelts	
Infiniti Vehicle Immobilizer System	
Lane Departure Prevention (LDP) system	P
RearView Monitor	P

INSTRUMENTATION	
Electroluminescent speedometer, tachometer, coolant temperature and fuel gauges	S
Ambient temperature (located in center-mounted LCD display)	
LCD odometer with dual trip meters, LCD gear select identification (both automatic and manual shift mode)	

PACKAGES AND OPTIONS	M35		M45	
	RWD	AWD	RWD	AWD
Sport Package: Rear Active Steer, sport-tuned suspension, 5-spoke 19-inch aluminum alloy wheels, sport-bolstered and trimmed front seats, sport steering wheel and shift knob, aluminum pedal accents, sport body styling, aluminum trim	O (n/a w/Prem Pkg)	-	O (n/a w/Prem Pkg)	-
Technology Package: Infiniti Hard Drive Navigation System w/touch screen, 8-inch display, Lane Guidance and 3-D building graphics, Bose® 2-channel, 8-speaker audio system, 9.3GB Music Box Hard Drive with compact flash slot, RearView Monitor, iPod® interface w/ cable, Voice Recognition	O			
Advanced Technology Package: Bose® 14-speaker 5.1 channel Studio Surround™ sound system, Lane Departure Prevention (LDP) and Lane Departure Warning (LDW) systems, Intelligent Cruise Control, Brake Assist with Preview, audio/video inputs on rear of center console, DVD-video/DVD-audio drive mounted in center console	O (requires Technology Package)			
Mobile Entertainment System: Center console-mounted DVD player with motorized, ceiling-mounted 8-inch color monitor, 2 sets of wireless headphones, RCA-type audio/video inputs on the rear of the center console and a remote control	O (req. Adv. Tech. Pkg & Sport Pkg)	-	O (req. Adv. Tech. Pkg & Sport Pkg)	-

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Premium Package: contents of Technology Package and Advanced Technology Package plus Mobile Entertainment System, heated and power reclining rear seats, rear passenger HVAC and audio controls with driver lockout and rear power sunshade	O (n/a with Sport Package)		O (n/a with Sport Package)	
Wood Interior Trim: African Rosewood trim on instrument panel, console and doors (replaces aluminum trim)	O (Sport Pkg only)	-	O (Sport Pkg only)	-

O – Optional

S – Standard

P – Included in Package

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