

1998 Infiniti QX4



Smart Luxury, Uncompromised Durability And Exceptional Value Characterize The 1998 Infiniti QX4

Last year, the Infiniti Division of Nissan Motor Corporation U.S.A. introduced a luxury sport utility vehicle (LSUV) that promised to be a fierce competitor in this rapidly expanding market segment - the Infiniti QX4 luxury sport utility vehicle. The QX4 surpassed all of Infiniti's initial expectations, carving a sales niche in the LSUV segment and capturing top honors in the 1997 J.D. Power and Associates Initial Quality Study (IQS) with a ranking of Best Compact Sport Utility Vehicle.

For 1998, the QX4 remains the same top-tier vehicle, combining quality with value; rugged characteristics amidst coddled luxury; and brawny sport utility strength with engineered finesse - all found only in a premium luxury vehicle. Priced under \$40,000, the QX4 offers an abundance of standard equipment, including: advanced All-Mode 4WD®, system, unique MonoFrame™ body construction and front strut suspension, Sophisticated Optimized Fuel Injection System (SOFIS), stylish exterior design and a luxurious interior cabin.

"The QX4 is a vital addition to the Infiniti Division and has beaten even our own sales projections," said Tom Eastwood, vice president, Infiniti Division. "We are especially proud of the QX4 ranking Best Compact Sport Utility in the 1997 J.D. Power and Associates Initial Quality Study, as this further validates the quality and stamina of this vehicle - traits that will continue to dominate in the 1998 model year."

Unique All-Mode 4WD System

Each Infiniti QX4 comes equipped with All-Mode 4WD. This unique system offers a combination that takes Infiniti - and the LSUV class - into unmarked territory, providing a superior driving experience, on pavement or off.

Derived from the advanced ATTESA E-TS all-wheel drive system used in the high-performance Japanese-market Nissan Skyline GT-R sports coupe, the QX4's All-Mode 4WD was uniquely developed to enhance traction and stability, and to react more quickly than any other 4WD system in rugged off-road conditions.

The heart of the All-Mode 4WD mechanical system is a wet multi-plate clutch in the center differential. Managed by an advanced computerized electronic control

unit, the multi-plate clutch precisely and instantly allots the right amount of torque, as conditions warrant, to the front and rear axles. The unit gathers information from front and rear driveshaft sensors (to determine wheel slippage), a throttle position sensor, an engine rpm sensor, a transfer unit lever selector and the anti-locking braking system (ABS) control unit.

While some SUV 4-wheel drive systems offer a choice of part-time or full-time 4-wheel drive with an electronic shift-on-the-fly function, the QX4's All-Mode 4WD was designed to instantly distribute torque to the front wheels - up to 50 percent can go to the front wheels on demand - resulting in optimal traction with improved fuel economy and enhanced cornering capability.

All-Mode 4WD offers drivers the opportunity to choose the drive mode most appropriate for a particular driving surface. The various modes are enacted simply, using the instrument panel-mounted rotary switch to select automatic or manual operation, or the floor mounted transfer lever to engage and disengage low range (4Lo). When the driver selects a particular mode (2WD, AUTO or LOCK), the control unit adjusts the torque split as required. A dash-mounted drive mode display informs the driver which mode is selected. Switching between 2WD, AUTO, and LOCK takes only one tenth of a second (0.1 sec.).

The system should be left in the AUTO mode for normal daily operation, requiring no driver intervention. The AUTO mode is recommended for most driving conditions except for severe or extended off-road driving. In All-Mode 4WD the system automatically directs engine power to the axle that has the most traction. The torque split may infinitely vary from zero percent front/100 percent rear to 50 percent front/50 percent rear. When accelerating from a standstill, torque is distributed to the front wheels based on throttle opening, wheel slippage, and road speed. Once the QX4 is moving approximately six to 12 mph, all power is sent to the vehicle's rear wheels (unless slippage is detected).

The 2WD mode is primarily used for operation on clean and dry pavement and allows operation of the QX4 as a 2-wheel drive vehicle, with 100 percent of the torque transferred to the rear wheels. In 2WD mode, no amount of wheel slippage will result in torque transfer to the front wheels.

The LOCK position sets a constant 50 percent front/50 percent rear torque split to provide exceptional traction on slippery surfaces. LOCK is not recommended for extended use on dry pavement as it may result in unnecessary wear on the vehicle's tires and drivetrain. A selector lever, located next to QX4's floor-mounted transmission selector, selects high- or low-range in QX4's transfer case. Leaving the lever in "H" (high) position provides high-range operation for daily driving and normal off-road 4WD conditions. Pulling the lever back into "4Lo" (low) position - with the vehicle stopped and in neutral - engages low-range for low-speed, off-road conditions that demand maximum traction.

"Infiniti's use of the unique All-Mode 4WD system in the QX4 is a highly attractive and usable attribute. The system is user-friendly and delivers excellent handling options for most types of road conditions," said Eastwood.

Cultivated Engine/Chassis

While the majority of current sport utility vehicles have evolved from truck platforms, the new QX4 was conceived and created as a true luxury vehicle - with the ride, feel, features and performance of an Infiniti, yet with the added versatility and all-season/all-terrain security of a next generation SUV.

To provide a stable platform, reduced noise and vibration, improved ride and handling and improved body fit, the QX4 is built with rigid MonoFrame construction. This technique draws from both unibody automotive design and body-on-frame truck design to produce a hybrid that combines the best elements of both.

A MonoFrame body reduces weight and improves space efficiency while also being considerably more resistant to torsional and bending stresses than conventional body-on-frame SUV designs.

The QX4 is powered by a 3.3-liter SOHC 12-valve V6 engine that produces 168 horsepower at 4,800 rpm and 196 ft-lbs of torque at 2,800 rpm. Over 90 percent of the engine's torque is available in the 1,500 - 1,800 rpm range - providing exceptional power for low speed off-road driving and maintained power at higher engine speeds for throttle response while accelerating, towing or cruising over long distances. All QX4s are equipped with a standard electronically controlled 4-speed automatic transmission mated to the advanced All-Mode 4WD system.

The QX4's engine utilizes SOFIS, resulting in better fuel economy, more power and lower emissions output than that of comparable engines equipped with conventional fuel injection systems. This electronic sequential multi-point fuel injection system optimizes the air/fuel mixture under all driving conditions by sensing and correcting fuel flow delays inside the intake ports.

Suspension for Both On- and Off-Road

The QX4's advanced suspension offers the best of both on-road comfort and off-road durability. The independent front strut design provides exceptional driving feel and enhanced stability, along with a tight turning radius and a long stroke for exceptional suspension travel which helps each wheel maintain contact with the ground. over uneven terrain and, in turn, minimizes wheel spin and enhances stability and traction.

The refined 5-link coil-spring beam suspension provides long suspension travel, enhanced stability and control of body roll, along with reduced noise and vibration. Stabilizer bars are featured front and rear for improved handling and driver control, while vehicle-speed-sensitive rack-and-pinion steering provides precise control and driver feedback.

The QX4 also features power-assisted front-vented disc brakes and rear drum brakes working in conjunction with the load sensing valve to determine how much weight is inside the vehicle, and with a special G-sensor which measures the deceleration rate of the vehicle and interacts with the ABS control unit to help

ensure that ABS does not interfere with braking during low-speed, extreme angle off-road maneuvers. In addition to the ABS system's logic control unit, the All-Mode 4WD control unit communicates with the ABS computer, allowing the two systems to cooperate, thereby enhancing traction and performance.

A limited-slip rear differential - which helps provide enhanced performance on slippery or uneven traction surfaces and during hard cornering - Is available as an option.

Sophisticated Exterior

A sophisticated exterior and luxurious cabin appointments are as important to today's LSUV owners as is a supple ride capable of traversing even the most difficult terrain. In today's competitive market, owners not only desire everything - they demand it. Knowing this, Infiniti set out to create the luxury division's first sport utility vehicle - a LSUV that would be a segment leader in all respects.

The outer design of the QX4 was conceived with the desire to impart a unique style and feel. The designers sought to uphold the Infiniti image and personality, maintain a car-like ride and feel, and offer a stylish, luxury vehicle equipped with superior all-terrain capabilities.

The exterior of the QX4 uses a sculpted design, giving it a unique appearance, and incorporates the key design goals: strength, sportiness and elegance. The QX4's frontal design became a primary area of attention when "designer's intellect" produced the vehicle's distinctive front "face."

Here, the hood volume flows down through the QX4's powerful grille; wide grille openings accent the vehicle's robust width and stance; bumper fascia proportions emphasize functionality and stability; bold integrated foglights enhance the overall look of strength and unity; heated body-colored dual remote-controlled power mirrors blend with the vehicle body; the front bumper flows into large integrated fender flares and textured, integrated side step rails with a slip-resistant insert; and the windshield wiper area is sculpted with a deep channel design that directs water flow away from the side windows.

The rear of the QX4 completes the feeling of sportiness and sophistication. The curved tailgate accentuates the sculptured lines that began on the sides of the vehicle, while the rear bumper fascia mimics the front for a sense of completeness and balance, also matching the curvature of the tailgate for even more cohesiveness. The designer's attention to detail can be seen everywhere, such as the step portion of the rear bumper which mirrors the pattern found on the step rails.

The QX4's large, 16-inch aluminum-alloy wheels with three wide spokes catch the eye and match the wheel and tire proportions to those of the body, while their lightweight design provides better ride and handling characteristics by reducing "unsprung" weight. Not to depart from the overall look, the full-size spare tire has a matching alloy wheel and the tires are all-season P245/70R16 H-rated Bridgestone covered by front and rear splash guards.

Luxurious Appointments

The QX4 does not disappoint with its attention to detail and unabashed elegance inside the cabin. An occupant will become engulfed in the amply padded leather seating surfaces, complete with a grain pattern and natural appearing wrinkles. Leather accessories complete the feel with a leather-wrapped steering wheel, shift levers and parking brake. Wood-tone trim surrounds the interior. Lighting is provided by a centrally located interior dome lamp, overhead console mounted map lights and cargo area lamps. There is also a locking glove compartment, front ashtray and large center console complete with a dual level storage area.

A Bose® 150-watt 6-speaker audio system with AM/FM cassette/CD-player emits only exquisite sound. The system was specifically designed for QX4's interior acoustics and the speakers are placed to provide maximum sound quality for all vehicle occupants.

Extra attention was given to the seating (5-passenger capacity), which includes an 8-way adjustable power driver's seat with 2-way manual lumbar support and a 4-way power front passenger's seat. The rear seat is a 60/40 split fold-down design with fold-down center armrest, an elevated seat base to enhance the forward view from the rear seat and reclining seat backs to enhance comfort.

The QX4's seating surfaces are covered by the same high-quality leather that is used in the flagship Q45 and I30 luxury sedans.

Built into the driver's side sun visor is the Integrated HomeLink™ Transmitter for remote opening of garage doors and gates. Power windows with a driver-side one-touch auto-down feature and power door locks with selective unlocking are also standard, along with an advanced 6-way keyless remote entry system, digital automatic temperature control with CFC-free air conditioning, rear-seat heater ducts, cruise control with steering wheel mounted controls, front and rear dual cup holders and front and rear 12-volt power outlets.

An array of storage spaces and areas add extra convenience and versatility. Among them: sunglass storage in the overhead console with temperature and compass display; front seatback map pockets, and front-door map pockets; a convenience net; and three cargo-area storage bins. A retractable/removable cargo area cover helps keep objects from view. Special attention was given to all switches and controls to ensure comfortable visual placement and ease of operation.

"One of the main goals in the development of the QX4, which was an especially high profile undertaking, being Infiniti's first entry into the highly competitive luxury sport utility vehicle arena, was to achieve an overall sense of balanced luxury. To be balanced, this particular vehicle needed to be strong yet luxurious, durable but elegant, and to be perceived as nothing less than high-class, while maintaining a competitive price," exclaimed Eastwood. "We feel we've blended the structural and design components in a truly exemplary fashion and developed a vehicle worthy of the Infiniti nameplate."

Outstanding Safety and Security

The QX4 includes a long list of standard safety equipment, including: dual air bags, adjustable front shoulder belt anchors, 3-point rear outboard passenger seat belts, energy-absorbing steering column, child-safety rear door locks and remote keyless entry and vehicle security system with indicator light.

Driver and passenger confidence is accentuated with an extensive list of body-incorporated safety features including: an energy-absorbing steering column, front and rear structure crumple zones, hood buckling creases with safety stops (to help avoid intrusion into the passenger compartment), special "outrigger" box-section bodyside reinforcements and a shift interlock system.

Simple Yet Luxurious Options

The new Infiniti QX4 comes fully equipped to please even the most discerning luxury tastes. Options include the popular Sunroof Preferred Package, which includes a power sliding tinted glass sunroof with tilt feature and sliding sunshade, a 6-disc CD changer installed under the passenger seat and a rear window wind deflector; the Sunroof Preferred Package plus heated seats; a Premium Sport Package, which adds all the above equipment plus a limited-slip rear differential (LSD); and the sunroof only.

On the 1998 QX4, there is a choice of two leather-appointed interior colors: Grey and Stone Beige.

The QX4 is available in seven exterior colors: Harbor Blue, Tuscan Beige, Black Obsidian, Bordeaux Pearl, Silver Sage, Ancient Bronze and a two-tone Dover White/Silver Sage.

Comprehensive Warranty/Total Ownership Experience

Like all Infiniti models, QX4 is protected by some of the best warranties in the industry: a 4-year/60,000-mile Basic New Vehicle Limited Warranty; a 6-year/70,000-mile Powertrain Limited Warranty protection for major engine and driveline components; a 5-year/50,000-mile New Vehicle Emission Control Limited Warranty; and a 7-year/unlimited mileage Corrosion Limited Warranty.

As part of the ongoing commitment to customer care known as The Total Ownership Experience®, Infiniti also provides buyers with a 48-month, 24-hour roadside assistance program - one of the most comprehensive available. A free Infiniti loan car is provided at participating retailers during the basic warranty period when requested with scheduled service/warranty appointments (subject to availability). Infiniti's satellite parts network also minimizes delays in service.

1998 QX4 Specifications & Features

ENGINE	Type	VG33E SOHC 12-valve V6, cast iron block, aluminum heads

	Displacement	3.3-liter
	Horsepower (SAE net)	168 hp @ 4,800 rpm
	Torque (SAE net)	196 ft-lbs @ 2,800 rpm
	Bore & Stroke (in.)	91.5 x 83
	Compression Ratio	8.9:1
	Induction System	Electronic sequential multi-point fuel injection system
	Valvetrain	SOHC 2-valves-per-cylinder, hydraulic valve lifters
	Recommended Fuel	Regular unleaded
	Emissions System	3-way catalytic converter and exhaust-gas recirculation
	Maximum Engine Speed	5,800 rpm
DRIVETRAIN	Drive Configuration	Front engine/All-Mode 4WD™
	Transmission Type	Electronically controlled 4-speed automatic
	Gear Ratios (:1)	
	1st	2.785
	2nd	1.545
	3rd	1.000
	4th	0.694
	Reverse	2.272
	Final Drive Ratio (:1)	4.636
	Differential	
	Front:	Conventional
	Rear:	Limited-Slip Differential (LSD) - optional
Transfer Gear Ratio (:1)	2.020	
BODY/ CHASSIS/ SUSPENSION	Body Type	Monoframe™ construction with DURASTEEL®
	Front Suspension	Independent front strut suspension with 27.0 mm stabilizer bar
	Rear Suspension	5-link coil-spring rear suspension with 16.0 mm stabilizer bar
STEERING & BRAKING	Steering Type	Engine-speed sensitive, power-assisted rack-and-pinion steering
	Steering Ratio	18.7:1
	Turning Circle (curb-	37.4

	to-curb)		
	Turns (lock-to-lock)	3.1	
	Braking System		
	Front:	Power assisted 11.8-inch vented discs	
	Rear:	Power assisted 11.6-inch auto-adjusting drums Standard 3-channel/4-sensor anti-lock braking system (ABS)	
ELECTRICAL	Ignition System	Electronic	
	Alternator	90 amp	
	Battery	Low-maintenance 12-volt	
WHEELS & TIRES	Wheel Type	Aluminum-alloy 3-spoke	
	Wheel Size/Offset	7.0JJ x 16 mm	
	Tire Type	All-season radial, H-rated	
	Tire Size	P245/70R16	
EXTERIOR DIMENSIONS	Wheelbase (in.)	106.3	
	Overall Length (in.)	183.9	
	Overall Width (in.)	72.4	
	Overall Height (in.)	70.7 (w/cross bar)	
	Step-in Height (in.)		
	Front	18.2	
	Rear	19.1	
	Tread Width (front/rear) (in.)	59.8/60.0	
	Min. Ground Clearance (in.)	8.3	
	Angle of Approach (degrees)	32.9	
	Angle of Departure (degrees)	28.0	
	Coefficient of Drag (Cd)	.48	
INTERIOR DIMENSIONS		Front Row	Second Row
	Head Room (in.)	39.5; 38.1 w/ sunroof	37.5
	Shoulder Room (in.)	56.6	56.4
	Hip Room (in.)	54.1	51.5
	Leg Room (in.)	41.7	31.8
WEIGHTS & CAPACITIES	Seating	5	
	Passenger Comp. Vol.	92.9	

	(cu. ft.)	
	Cargo Volume (cu. ft.)	38.0 (85.0 w/ rear seat folded down)
	Fuel Tank (gal.)	21.1
	Engine Coolant (qts.)	11.9 with reservoir
	Oil (qts.) w/ filter	3.7
	Max. Towing (lbs.)	5,000
	Curb Weight (lbs.)	4,275
	GVWR (lbs.)	5,150
	Cargo Dimensions (in.) (LxWxH)	32.7 x 56.4 x 35.6
	Weight Distribution (F/R %)	N/A
FUEL ECONOMY*	Highway/City - 4-spd. auto. (mpg)	19/15
	EPA Classification	Special Purpose Vehicles
PERFORMANCE	Acceleration 0-60 mph	
	Maximum Speed M/T	11.2 mph**
	Maximum Speed A/T	110 mph**
	Acceleration 0-60 mph (seconds)	11.0 seconds**

* EPA estimate for comparison only, actual mileage may vary

** Manufacturer's estimate

Features and Options

MECHANICAL	
3.3-liter SOHC 12-valve V6 engine	S
Sequential multi-point fuel injection system with SOFIS	S
Electronically-controlled 4-speed automatic overdrive transmission	S
All-Mode 4WD™ System	S
Power-assisted engine speed-sensitive rack-and-pinion steering	S
Power vented front disc/rear drum brakes	S
Independent front strut suspension with stabilizer bar	S
5-link coil-spring rear suspension with stabilizer bar	S
4-wheel anti-lock braking system (ABS)	S
EXTERIOR	
P245/70R16 all-season radial tires	S
16-inch aluminum-alloy wheels	S
Flush-mounted halogen headlights	S
Projector-type fog lamps	S

Green-tinted windshield and front door glass	S
B-pillar rearview mirror privacy glass	S
Dual power, body color, heated outside mirrors	S
Body-color side cladding with continuous integrated fender flares	S
Front and rear splash guards	S
Body-color front and rear bumpers	S
Body-color step rail with step inserts	S
Roof-mounted luggage rack	S
Body-color door handles	S
Rear center high-mount stoplight	S
Liftgate with opening glass hatch	S
Fuel tank skid plates	S
INTERIOR/SEATING AND TRIM	
8-way power front driver TM s ses seat	S
4-way power front passenger ^o s seat	S
60/40 split fold-down rear seat with reclining seatbacks	S
Fold-down rear seat center armrest	S
Leather seating surfaces	S
Door armrest storage (all doors)	S
Front seat back pockets	S
Front and rear large door pockets	S
Front and rear carpeted floor mats	S
Simulated leather upper door trim	S
Carpeted lower door trim	S
Leather-wrapped steering wheel, parking brake, shift lever and transfer case knobs	S
COMFORT AND CONVENIENCE	
CFC-free air conditioning	S
Automatic temperature control (ATC)	S
Power windows with driver-side one-touch auto-down feature	S
Remote fuel-filler door release and electric glass hatch release	S
Cruise control with steering-wheel-mounted controls	S
Manual tilt steering column	S
Four 20-ounce cupholders (2 front/2 rear)	S
Rear 12-volt direct current outlet	S
Retractable cargo area cover	S
2-speed variable intermittent windshield wipers	S
Liftgate window intermittent wiper	S

Rear window defroster with timer	S
Side-window demister	S
Roof mounted overhead console with ambient temperature display, electronic compass, map lights and sunglass storage	S
Interior lamps -- dome, cargo area and front ashtray	S
Dual illuminated visor vanity mirrors	S
Center console with integrated armrest, dual level storage area and simulated leather covered lid	S
Lockable glove compartment	S
Rear cargo area convenience net	S
Cargo area concealed storage bin	S
Cargo area under floor mini storage box	S
Keyless remote entry and vehicle security system	S
INSTRUMENTATION	
Analog speedometer and tachometer	S
Coolant temperature sensor	S
Digital odometer with dual trip meters	S
Low fuel and door-ajar-warning lights	S
4WD warning lamp and All-Mode indicator	S
AUDIO SYSTEM	
150 watt, 6-speaker Bose® audio system with in-dash CD and cassette with integrated clock	S
In-glass diversity antenna system	S
SAFETY AND SECURITY	
Dual air bags (SRS)	S
3-point manual front seat belts (passenger-side ALR/ELR) with height-adjustable front shoulder belts	S
3-point rear (outboard) seat belts (ALR/ELR) with center 2-point lap belt	S
Front and rear adjustable outboard head restraints	S
Child safety rear door locks	S
Energy-absorbing tilt steering column	S
Front and rear body structure crumple zones	S
4-wheel anti-lock braking system (ABS)	S
Keyless remote entry and vehicle security system	S
Steel side-door guard beams	S
FACTORY OPTIONS AND PACKAGES	
Power sliding tinted glass sunroof with tilt feature and sliding sunshade	O
Heated driver's and front-passenger's seats (requires sunroof)	O
Sunroof Preferred Package - Power sliding tinted glass sunroof with tilt	

feature and sliding sunshade, 6-disc CD changer and rear window wind deflector	
Premium Sport Package - Sunroof Preferred Package, heated driver's and front passenger's seats and limited-slip differential (LSD)	O
DEALER -INSTALLED ACCESSORIES	
CD autochanger (6-disc), battery warmer, bike rack / bike attachment (roof and hitch mount), car cover, cargo area protector, cargo carrier (soft), cargo organizer, engine block heater, gold badging, hood bug deflector, nose mask, rear window wind deflector, ski rack attachment (roof mount), sunroof wind deflector, towing accessories (CL. III reciever hitch & tow harness conn. kit), wheel locks	
S	Standard Equipment
O	Optional Equipment