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INFINITI®
QX4
MODEL R50 SERIES



INFINITI®

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FOREWORD

This manual contains maintenance and repair procedures for the 1998 INFINITI QX4.

In order to assure your safety and the efficient functioning of the vehicle, this manual should be read thoroughly. It is especially important that the PRECAUTIONS in the GI section be completely understood before starting any repair task.

All information in this manual is based on the latest product information at the time of publication. The right is reserved to make changes in specifications and methods at any time without notice.

IMPORTANT SAFETY NOTICE

The proper performance of service is essential for both the safety of the technician and the efficient functioning of the vehicle. The service methods in this Service Manual are described in such a manner that the service may be performed safely and accurately. Service varies with the procedures used, the skills of the technician and the tools and parts available. Accordingly, anyone using service procedures, tools or parts which are not specifically recommended by INFINITI must first be completely satisfied that neither personal safety nor the vehicle's safety will be jeopardized by the service method selected.



I N F I N I T I®



NISSAN MOTOR CO., LTD.

Overseas Service Department
Tokyo, Japan

QUICK REFERENCE CHART: QX4

1998

ENGINE TUNE-UP DATA

Engine model		VG33E	
Firing order		1-2-3-4-5-6	
Idle speed	rpm	A/T (in "N" position)	750±50
Ignition timing (degree BTDC at idle speed)		15°±2°	
CO% at idle		Idle mixture screw is preset and sealed at factory.	
Drive belt deflection (Cold)	mm (in)	Used belt	
		Limit	Deflection after adjustment
Alternator		10.5 (0.413)	6 - 7 (0.24 - 0.28)
Air conditioner compressor		16.5 (0.650)	5.5 - 6.5 (0.217 - 0.256)
Power steering oil pump		18 (0.71)	9 - 10 (0.35 - 0.43)
Applied pressed force		N (kg, lb)	
		98 (10, 22)	
Radiator cap relief pressure		kPa (kg/cm ² , psi)	
		78 - 98 (0.8 - 1.0, 11 - 14)	
Cooling system leakage testing pressure		kPa (kg/cm ² , psi)	
		157 (1.6, 23)	
Compression pressure	Standard	1,198 (12.20, 173.4)/300	
	Minimum	883 (9.01, 128.0)/300	
Spark plug	Type (Standard)	BKR5E-II	
	Gap mm (in)	1.0 - 1.1 (0.039 - 0.043)	

WHEEL ALIGNMENT (Unladen*)

Applied model		245/70 R16 tire	
Camber	Minimum	-0°35' (-0.58°)	
	Nominal	0°10' (0.17°)	
	Maximum	0°55' (0.92°)	
Degree minute (Decimal degree)	Left and right difference	45' (0.75°) or less	
Caster	Minimum	2°15' (2.25°)	
	Nominal	3°00' (3.00°)	
	Maximum	3°45' (3.75°)	
Degree minute (Decimal degree)	Left and right difference	45' (0.75°) or less	
Total toe-in	Minimum	1 (0.04)	
	Nominal	2 (0.08)	
	Maximum	3 (0.12)	
Distance (A - B)	mm (in)		
Angle (left plus right)	Minimum	5' (0.08°)	
	Nominal	10' (0.17°)	
Degree minute (Decimal degree)	Maximum	15' (0.25°)	
Wheel turning angle (Full turn)	Minimum	30°00' (30.00°)	
	Nominal	33°00' (33.00°)	
	Maximum	34°00' (34.00°)	
Inside	Minimum	28°00' (28.00°)	
	Nominal	31°00' (31.00°)	
Degree minute (Decimal degree)	Maximum	32°00' (32.00°)	
Outside	Minimum	31°00' (31.00°)	
	Nominal	32°00' (32.00°)	
Degree minute (Decimal degree)	Maximum	32°00' (32.00°)	

* Fuel, radiator coolant and engine oil full.
Spare tire, jack, hand tools and mats in designated positions.

BRAKE

		Unit: mm (in)
Front brake		
Pad wear limit		2.0 (0.079)
Rotor repair limit		26.0 (1.024)
Rear brake		
Lining wear limit		1.5 (0.059)
Drum repair limit		296.5 (11.67)
Pedal free height		175 - 185 (6.89 - 7.28)
Pedal depressed height*1		70 (2.76)
Parking brake		
Number of notches*2		6 - 8

*1 Under force of 490 N (50 kg, 110 lb) with engine running

*2 At pulling force: 196 N (20 kg, 44 lb)

REFILL CAPACITIES

Unit		Liter	US measure
Coolant with reservoir		10.6	11-1/4 qt
Engine	With oil filter	3.7	3-7/8 qt
	Without oil filter	3.4	3-5/8 qt
Transmission	A/T	8.5	9 qt
	4WD		
All-mode 4WD transfer		3.0	2-5/8 qt
Differential carrier	Front	2.05	4-3/8 pt
	Rear	2.8	5-7/8 pt
Power steering system		0.9	1 qt
Air conditioning system	Refrigerant	0.60 - 0.70 kg	1.32 - 1.54 lb
	Compressor oil	0.20	6.8 fl oz

FRONT WHEEL BEARING

Preload (At hub bolt) N (kg, lb)	Wheel bearing lock nut	
	Tightening torque	78 - 98 (8 - 10, 58 - 72)
	Retightening torque after loosening wheel bearing lock nut	0.5 - 1.5 (0.05 - 0.15, 4.3 - 13.0)
	Axial end play	mm (in)
	Starting force at wheel hub bolt	N (kg, lb)
	Turning angle	degree
	Starting force at wheel hub bolt	N (kg, lb)
	Wheel bearing preload at wheel hub bolt	N (kg, lb)

A
B
7.06 - 20.99 (0.72 - 2.14, 1.59 - 4.72)

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