

**QUICK REFERENCE INDEX**

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<b>A GENERAL INFORMATION</b>	<b>GI</b>	<b>General Information</b>	
<b>B ENGINE</b>	<b>EM</b>	<b>Engine Mechanical</b>	
	<b>LU</b>	<b>Engine Lubrication System</b>	
	<b>CO</b>	<b>Engine Cooling System</b>	
	<b>EC</b>	<b>Engine Control System</b>	
	<b>FL</b>	<b>Fuel System</b>	
	<b>EX</b>	<b>Exhaust System</b>	
	<b>ACC</b>	<b>Accelerator Control System</b>	
<b>C TRANSMISSION/ TRANSAXLE</b>	<b>AT</b>	<b>Automatic Transmission</b>	
<b>D DRIVELINE/AXLE</b>	<b>TF</b>	<b>Transfer</b>	
	<b>PR</b>	<b>Propeller Shaft</b>	
	<b>FFD</b>	<b>Front Final Drive</b>	
	<b>RFD</b>	<b>Rear Final Drive</b>	
	<b>FAX</b>	<b>Front Axle</b>	
	<b>RAX</b>	<b>Rear Axle</b>	
<b>E SUSPENSION</b>	<b>FSU</b>	<b>Front Suspension</b>	
	<b>RSU</b>	<b>Rear Suspension</b>	
	<b>WT</b>	<b>Road Wheels &amp; Tires</b>	
<b>F BRAKES</b>	<b>BR</b>	<b>Brake System</b>	
	<b>PB</b>	<b>Parking Brake System</b>	
	<b>BRC</b>	<b>Brake Control System</b>	
	<b>PS</b>	<b>Power Steering System</b>	
<b>G STEERING</b>			
<b>H RESTRAINTS</b>	<b>SB</b>	<b>Seat Belts</b>	
	<b>SRS</b>	<b>Supplemental Restraint System (SRS)</b>	
<b>I BODY</b>	<b>BL</b>	<b>Body, Lock &amp; Security System</b>	
	<b>GW</b>	<b>Glasses, Window System &amp; Mirrors</b>	
	<b>RF</b>	<b>Roof</b>	
	<b>EI</b>	<b>Exterior &amp; Interior</b>	
	<b>IP</b>	<b>Instrument Panel</b>	
	<b>SE</b>	<b>Seat</b>	
	<b>AP</b>	<b>Adjustable Pedals</b>	
<b>J AIR CONDITIONER</b>	<b>ATC</b>	<b>Automatic Air Conditioner</b>	
<b>K ELECTRICAL</b>	<b>SC</b>	<b>Starting &amp; Charging System</b>	
	<b>LT</b>	<b>Lighting System</b>	
	<b>DI</b>	<b>Driver Information System</b>	
	<b>WW</b>	<b>Wiper, Washer &amp; Horn</b>	
	<b>BCS</b>	<b>Body Control System</b>	
	<b>LAN</b>	<b>LAN System</b>	
	<b>AV</b>	<b>Audio Visual, Navigation &amp; Telephone System</b>	
	<b>ACS</b>	<b>Auto Cruise Control System</b>	
	<b>PG</b>	<b>Power Supply, Ground &amp; Circuit Elements</b>	
<b>L MAINTENANCE</b>	<b>MA</b>	<b>Maintenance</b>	
<b>M INDEX</b>	<b>IDX</b>	<b>Alphabetical Index</b>	

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# FOREWORD

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This manual contains maintenance and repair procedures for the 2004 INFINITI QX56.

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.

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## 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 NISSAN must first be completely satisfied that neither personal safety nor the vehicle's safety will be jeopardized by the service method selected.



NISSAN NORTH AMERICA, INC.  
Technical Publications Department  
Gardena, California

# QUICK REFERENCE CHART: QX56

2004

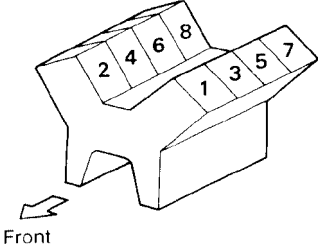
## QUICK REFERENCE CHART: QX56

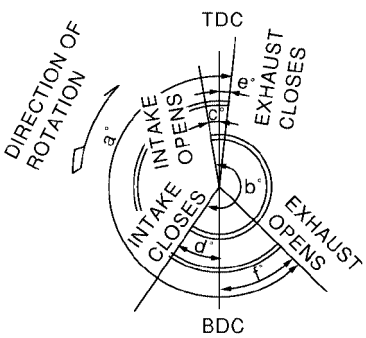
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### Engine Tune-Up Data

ELS000YK

Cylinder arrangement		V-8
Displacement		5,552 cm <sup>3</sup> (338.80 in <sup>3</sup> )
Bore and stroke		98 x 92 mm (3.86 x 3.62 in)
Valve arrangement		DOHC
Firing order		1-8-7-3-6-5-4-2
Number of piston rings	Compression	2
	Oil	1
Number of main bearings		5
Compression ratio		9.8:1
Compression pressure	Standard	1,520 kPa (15.5 kg/cm <sup>2</sup> , 220 psi) / 200 rpm
	Minimum	1,324 kPa (13.5 kg/cm <sup>2</sup> , 192 psi) / 200 rpm
	Differential limit between cylinders	98 kPa (1.0 kg/cm <sup>2</sup> , 14 psi) / 200 rpm

Cylinder number	 <p style="text-align: right; margin-top: 10px;">SEM957C</p>
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Valve timing	 <p style="text-align: right; margin-top: 10px;">PBIC0187E</p>
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Unit: degree

a	b	c	d	e	f
232°	230°	2°	48°	3°	49°

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2004

## Drive Belt Deflection and Tension

Tension of drive belts	Auto adjustment by auto tensioner
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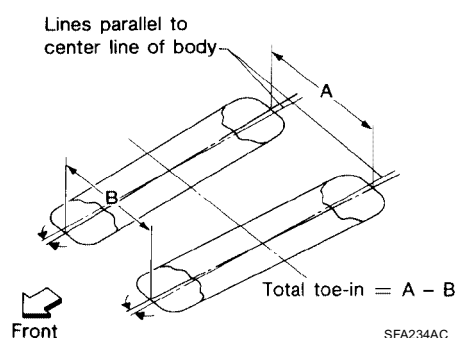
## Spark Plugs (Double Platinum Tipped)

Make	NGK
Standard type	PLFR5A-11
Hot type	PLFR4A-11
Cold type	PLFR6A-11
Gap (nominal)	1.1 mm (0.043 in)

## Front Wheel Alignment (Unladen\* <sup>1</sup>)

ELS00112

Drive type		2WD	4WD
Camber Degree minute (decimal degree)	Minimum	-0° 51' (-0.85°)	-0° 33' (-0.55°)
	Nominal	-0° 6' (-0.10°)	0° 12' (0.20°)
	Maximum	0° 39' (0.65°)	0° 57' (0.95°)
	Cross camber	0° 45' (0.75°) or less	0° 45' (0.75°) or less
Caster Degree minute (decimal degree)	Minimum	3° 15' (3.25°)	2°45' (2.75°)
	Nominal	4° 0' (4.00°)	3° 30' (3.50°)
	Maximum	4° 45' (4.75°)	4° 15' (4.25°)
	Cross caster	0° 45' (0.75°) or less	0° 45' (0.75°) or less
Kingpin inclination Degree minute (decimal degree)		13° 32' (13.53°)	13°13' (13.22°)



Total toe-in	Distance (A - B)	Minimum	1.8 mm (0.07 in)	1.8 mm (0.07 in)
		Nominal	2.8 mm (0.11 in)	2.8 mm (0.11 in)
		Maximum	3.8 mm (0.15 in)	3.8 mm (0.15 in)
	Angle (left side and right side) Degree minute (decimal degree)	Minimum	0° 3' (0.05°)	0° 3' (0.05°)
		Nominal	0° 5' (0.08°)	0° 5' (0.08°)
		Maximum	0° 7' (0.12°)	0° 7' (0.12°)
Wheel turning angle (full turn)	Inside Degree minute (decimal degree)	34° 31' - 38° 31' *2 (34.52° - 38.52°)	34° 44' - 38° 44' *4 (34.73° - 38.73°)	
	Outside Degree minute (decimal degree)	30° 59' - 34° 59' *3 (30.98° - 34.98°)	30° 29' - 34° 29' *5 (30.48° - 34.48°)	

\*1: Fuel, radiator coolant and engine oil full. Spare tire, jack, hand tools and mats in designated positions.

\*2: Target value 37° 31' (37.52°)

\*3: Target value 33° 59' (33.98°)

\*4: Target value 37° 44' (37.73°)

\*5: Target value 33° 29' (33.48°)

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for your reading.**

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