Edition: December 2005	QU	ICK REFERENCE INDEX		
Revision: December 2006	Α	GENERAL INFORMATION	GI	General Information
	В	ENGINE	EM	Engine Mechanical
			LU	Engine Lubrication System
			СО	Engine Cooling System
			EC	Engine Control System
			FL	Fuel System
			EX	Exhaust System
			ACC	Accelerator Control System
	С	TRANSMISSION/ TRANSAXLE	AT	Automatic Transmission
	D	DRIVELINE/AXLE	TF	Transfer
INFINITI <sub>®</sub>			PR	Propeller Shaft
			FFD	Front Final Drive
FX35/FX45			RFD	Rear Final Drive
MODEL S50 SERIES			FAX	Front Axle
MODEL 550 SERIES			RAX	Rear Axle
	Е	SUSPENSION	FSU	Front Suspension
			RSU	Rear Suspension
			WT	Road Wheels & Tires
	F	BRAKES	BR	Brake System
			PB	Parking Brake System
			BRC	Brake Control System
	G	STEERING	PS	Power Steering System
	Н	H RESTRAINTS SB Seat Belts		Seat Belts
			SRS	(SRS)
	T	BODY	BL	
			GW	Glasses, Window System & Mir-
				rors
			RF	Roof
			El	Exterior & Interior
			IP	Instrument Panel
			SE	Seat
	J	AIR CONDITIONER	ATC	Automatic Air Conditioner
	K	ELECTRICAL	SC	Starting & Charging System
			LT	
			DI	Driver Information System
			ww	Wiper, Washer & Horn
			BCS	
			LAN	LAN System
			AV	, ,
				phone System
				Auto Cruise Control System
VV			PG	Power Supply, Ground & Circuit Elements
INFINITI®	T	MAINTENANCE	MA	Maintenance
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ELS0003W

### **QUICK REFERENCE CHART FX35/FX45**

## QUICK REFERENCE CHART FX35/FX45 ENGINE TUNE-UP DATA (VQ35DE)

PFP:00000

Engine model			VQ35DE			
Firing order			1-2-3-4-5-6			
Idle speed rpm A/T (In "P" or "N" position)			650 ± 50			
Ignition timing (BTDC at idle speed) A/T (In "P" or "N" position)		15° ± 5°				
	Deflection adj	Deflection adjustment		Tension adjustment		Unit: N (kg, lb)
Drive Belt		Used belt	NI la -la	Us	Used belt	
	Limit	After adjustment	New belt	Limit	After adjustment	New belt
Alternator and power steering oil pump belt	7 (0.28)	4 - 5 (0.16 - 0.20)	3.5 - 4.5 (0.138 - 0.177)	294 (30, 66)	730 - 818 (74.5 - 83.5, 164 - 184)	838 - 926 (85.5 - 94.5, 188 - 208)
A/C compresor belt	12 (0.47)	9 - 10 (0.35 - 0.39)	8 - 9 (0.31 - 0.35)	196 (20, 44)	348 - 436 (35.5 - 44.5, 78 - 98)	470 - 559 (47.9 - 57.0, 106 - 126)
Applied pushing force	Applied pushing force 98N (10kg, 22lb)					
Radiator cap relief press	ure	kPa (kg/cm² , psi)				
Standard		78 - 98 (0.8 - 1.0, 11 - 14)				
	Limit		59 (0.6, 9)			
Cooling system leakage testing pressure kPa (kg/cm², psi)		157 (1.6, 23)				
Compression pressure		kPa (kg/cm² , psi)/rpm				
Standard Minimum			1,275 (13.0, 185) /300			
			981 (10.0, 142) /300			
Spark plug	Standard type	)	PLFR5A-11			
	Hot type		PLFR4A-11			
	Cold type		PLFR6A-11			

## **ENGINE TUNE-UP DATA (VK45DE)**

Engine model		VK45DE
Firing order		1-8-7-3-6-5-4-2
Idle speed A/T (In "P" or "N" position) rpm		650 ± 50
Ignition timing (BTDC at idle s	peed)	12° ± 5°
Tensions of driv	ve belts	Auto adjustment by auto tensioner
Radiater cap re	lief pressure kPa (kg/cm <sup>2</sup> , psi)	
	Standard	78 - 98 (0.8-1.0 , 11-14)
	Limit	59 (0.6, 9)
Cooling system	leakage testing pressure	157 (1.6, 23)
kPa (kg/cm² , psi)		107 (1.0, 20)
Compression p	ressure kPa (kg/cm² , psi)/rpm	
	Standard	1,320 (13.5, 191) /300
	Minimum	1,130 (11.5, 164) /300
Spark plug	Standard type	PLFR5A-11
	Hot type	PLFR4A-11
	Cold type	PLFR6A-11

# FRONT WHEEL ALIGNMENT (Unladen\*)

ELS0003X

Camber Degree minute (Decimal degree)		Minimum	-1° 29′ (-1.48°)
		Nominal	-0° 44′ (-0.73°)
		Maximum	0° 01′ (0.02°)
		Left and right difference	45' (0.75°) or less
		Minimum	3° 02′ (3.03°)
Caster	Caster Degree minute (Decimal degree)		3° 47′ (3.78°)
Degree minute (Decima			4° 32′ (4.53°)
			45' (0.75°) or less
	Kingpin inclination Degree minute (Decimal degree)		12° 20′ (12.33°)
			13° 05′ (13.08°)
Dogree Himate (Doesing	ar dogrooy	Maximum	13° 50′ (13.83°)
		Minimum	0.6 mm (0.024 in)
	Distance	Nominal	1.6 mm (0.063 in)
Total too in		Maximum	2.6 mm (0.102 in)
Total toe-in		Minimum	0° 01′ (0.02°)
	Angle (left wheel or right wheel)  Degree minute (Decimal degree)	Nominal	0° 04′ (0.06°)
	Dograd Himato (Dodiniai dograd)	Maximum	0° 06′ (0.10°)
Wheel turning angle	Inside	Minimum	32° 00 (32.0°)
(Full turn)	Degree minute (Decimal degree)	Nominal	35° 00 (35.0°)
		Maximum	36° 00 (36.0°)
	Outside Degree minute (Decimal degree)	Nominal	30° 00 (30.0°)

<sup>\*:</sup> Fuel, engine coolant and lubricant oil full. Spare tire, jack, hand tools and mats are in designated positions.

# REAR WHEEL ALIGNMENT (Unladen\*)

ELS0003Y

Camber Degree minute (Decimal degree)		Minimum	-1° 18′ (-1.30°)
		Nominal	-0° 48′ (-0.80°)
		Maximum	-0° 18′ (-0.30°)
Total toe-in		Minimum	2.4 mm (0.09 in)
	Distance	Nominal	4.7 mm (0.19 in)
		Maximum	7.0 mm (0.28 in)
		Minimum	0° 05′ (0.08°)
	Angle (left wheel or right wheel)  Degree minute (Decimal degree)	Nominal	0° 10′ (0.17°)
	Degree minute (Decimal degree)	Maximum	0° 15′ (0.25°)

<sup>\*:</sup> Fuel, engine coolant and lubricant oil full. Spare tire, jack, hand tools and mats are in designated positions.

**BRAKE** 

F I I .	B. L. et P. William	0.0 (0.070; )	
Front brake	Pad repair limit thickness	2.0 mm (0.079 in)	
	Rotor repair limit thickness	32.0 mm (1.260 in)	
Rear brake	Pad repair limit thickness	2.0 mm (0.079 in)	
	Rotor repair limit thickness	14.0 mm (0.551 in)	
Brake pedal height (from dash lower panel top surface)		161.5 - 171.5 mm (6.358 - 6.752 in)	
Depressed pedal height*		More than 95 mm (3.74 in)	

<sup>\*:</sup> Under a force of 490 N (50 kg, 110 lb) with engine running.

#### **REFILL CAPACITIES**

ELS00040

UNIT		Liter	US measure
Fuel tank		90	23 - 3/4 gal
Coolant (With reservoir tank)	VQ35DE	8.6	9 - 1/8 qt
	VK45DE	10.0	10 - 5/8 qt
Engine(VQ35DE)	Drain and refill		
	With oil filter change	4.7	5 qt
	Without oil filter change	4.4	4 - 5/8 qt
	Dry engine (Overhaul)	5.4	5 - 3/4 qt
	Drain and refill		
Engine(VK45DE)	With oil filter change	5.8	6 - 1/8 qt
	Without oil filter change	5.2	5 - 1/2 qt
	Dry engine (Overhaul)	7.0	7 - 3/8 qt
Transmission	A/T	10.3	10 - 7/8 qt
Transfer		1.25	2 - 5/8 pt
Differential carrier	Front	0.65	1 - 3/8 pt
	Rear	1.4	3 pt
Power steering system		1.0	1 - 1/8 qt
Air conditioning system	Compressor oil	0.18	6.0 fl oz
	Refrigerant	0.55 kg	1.21 lb