Edition: July 2006	QUICK REFERENCE INDEX	
Revision: July 2006	A GENERAL INFORMATION	Gl General Information
Novicioni Guly 2000	B ENGINE	EM Engine Mechanical
		LU Engine Lubrication System
		CO Engine Cooling System
		EC Engine Control System
		FL Fuel System
		EX Exhaust System
		ACC Accelerator Control System
	C 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
		FAX Front Axle
MODEL S50 SERIES		RAX Rear Axle
	E 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
	H RESTRAINTS	SB Seat Belts
		SRS Supplemental Restraint System (SRS)
	I BODY	BL Body, Lock & Security System
		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 Lighting System
		DI Driver Information System
		WW Wiper, Washer & Horn
		BCS Body Control System
		LAN LAN System
		AV Audio Visual, Navigation & Tele- phone System
		ACS Auto Cruise Control System
VV		PG Power Supply, Ground & Circuit Elements
INFINITI®	L 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	ustment	Unit: mm (in) Tension adjustment		Unit: N (kg, lb)	
Drive Belt	Used belt		Naw halt	Used belt		NI I I4
	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  Limit		78 - 98 (0.8 - 1.0, 11 - 14)			
			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			1,275 (13.0, 185) /300			
	Minimum		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	l" position) rpm	650 ± 50	
Ignition timing (BTDC at idle speed)		12° ± 5°	
Tensions of driv	re belts	Auto adjustment by auto tensioner	
Radiater cap re	lief pressure 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 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	
Caster	Degree minute (Decimal degree)	Minimum	3° 02′ (3.03°)	
		Nominal	3° 47′ (3.78°)	
		Maximum	4° 32′ (4.53°)	
		Left and right difference	45' (0.75°) or less	
Kingpin inclination	Degree minute (Decimal degree)	Minimum	12° 20′ (12.33°)	
		Nominal	13° 05′ (13.08°)	
		Maximum	13° 50′ (13.83°)	
Total toe-in	Distance	Minimum	0.6 mm (0.024 in)	
		Nominal	1.6 mm (0.063 in)	
		Maximum	2.6 mm (0.102 in)	
	Angle (left wheel or right wheel)	Minimum	0° 01′ (0.02°)	
		Nominal	0° 04′ (0.06°)	
	Degree minute (Decimal degree)	Maximum	0° 06′ (0.10°)	
Wheel turning angle (Full turn)	Inside	Minimum	32° 00 (32.0°)	
	Degree minute (Decimal degree)	Nominal	35° 00 (35.0°)	
		Maximum	36° 00 (36.0°)	
	Outside	Nominal	20° 00 (20 0°)	
	Degree minute (Decimal degree)	Nominal	30° 00 (30.0°)	

<sup>\*:</sup> Fuel, engine coolant and engine oil full. Spare tire, jack, hand tools and mats 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°)
	Distance	Minimum	2.4 mm (0.09 in)
Total toe-in		Nominal	4.7 mm (0.19 in)
		Maximum	7.0 mm (0.28 in)
	Angle (left wheel or right wheel)  Degree minute (Decimal degree)	Minimum	0° 05′ (0.08°)
		Nominal	0° 10′ (0.17°)
		Maximum	0° 15′ (0.25°)

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

**BRAKE** 

Front brake	Pad wear limit	2.0 mm (0.079 in)
	Rotor repair limit	32.0 mm (1.260 in)
Rear brake	Pad wear limit	2.0 mm (0.079 in)
	Rotor repair limit	14.0 mm (0.551 in)
Pedal free height	,	161.5 - 171.5 mm (6.358 - 6.752 in)
Pedal depressed height*		More than 95 mm (3.74 in)

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

#### **REFILL CAPACITIES**

ELS00040

UNIT Fuel tank		Liter	US measure
		90	23 - 3/4 gal
Coolant (With reservoir tank)	VQ35DE	8.6	9 - 1/8 qt
	VK45DE	10.0	10 - 5/8 qt
	Drain and refill		
F: (\(\( \) (\(\) (\( \) (\( \) (\(\) (\(\) (\(\) (\(\) (\(\) (\(\) (\(\) (\(\) (\(\) (\(\) (\(\) (\(\) (\(\) (\(\) (\(\) (\(\) (\(\) (\(\) (\(\	With oil filter change	4.7	5 qt
Engine(VQ35DE)	Without oil filter change	4.4	4 - 5/8 qt
	Dry engine (Overhaul)	5.4	5 - 3/4 qt
	Drain and refill		
En ein a (\	With oil filter change	5.8	6 - 1/8 qt
Engine(VK45DE)	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 corrier	Front	0.65	1 - 3/8 pt
Differential carrier	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