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IDX Alphabetical Index

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FOREWORD

This manual contains maintenance and repair procedure for the 2007 INFINITI FX35/FX45.

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



NISSAN MOTOR CO., LTD.

QUICK REFERENCE CHART FX35/FX45

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

PFP:00000

ELS0003W

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 A/T (In "P" or "N" position				15°	°± 5°	
	Deflection adjustment		Unit: mm (in)	Tension adjustment Unit:		Unit: N (kg, lb)
Drive Belt		Used belt	New belt	Us	sed belt	Now bolt
	Limit	After adjustment	New Delt	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)				_	I
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	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 ² , psi)		
	Standard	78 - 98 (0.8-1.0 , 11-14)	
	Limit	59 (0.6, 9)	
Cooling system	leakage testing pressure	457 (4.0.00)	
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	Neminal	000 00 (00 00)
	Degree minute (Decimal degree)	Nominal	30° 00 (30.0°)

^{*:} 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)	Minimum	0° 05′ (0.08°)
		Nominal	0° 10′ (0.17°)
	Degree minute (Decimal degree)	Maximum	0° 15′ (0.25°)

^{*:} 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)	

^{*:} 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		
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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