Edition: November 2008	QUICK REFERENCE INDEX			
Revision: March 2010	A GENERAL INFORMATION	GI	General Information	
Publication No. SM9E-1J50U1	B ENGINE	EM	Engine Mechanical	
		LU	Engine Lubrication System	
		CO EC	Engine Cooling System Engine Control System	
		FL	Fuel System	
		EX	Exhaust System	
		STR	Starting System	
		ACC	Accelerator Control System	
	C HYBRID			
	D TRANSMISSION & DRIVE- LINE		T 10T	
	LINE	TM DLN	Transaxle & Transmission Driveline	
		FAX	Front Axle	
		RAX	Rear Axle	
	E SUSPENSION	FSU	Front Suspension	
(\wedge)	-	RSU	Rear Suspension	
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INFINITI®		WT	Road Wheels & Tires	
	F BRAKES	BR	Brake System	
EX35		PB	Parking Brake System	
MODEL J50 SERIES	G STEERING	BRC	Brake Control System	
	G STEERING	ST	Steering System Steering Control System	
	H RESTRAINTS	SB	Seat Belt	
	n Resiliante	0.0	ocat Ben	
		SR	SRS Airbag	
		SRC	SRS Airbag Control System	
	I VENTILATION, HEATER &	VTL	Ventilation System	
	AIR CONDITIONER	HA	Heater & Air Conditioning System	
		HAC	Heater & Air Conditioning Control System	
	J BODY INTERIOR	INT	Interior	
		IP SE	Instrument Panel	
		ADP	Seat Automatic Drive Positioner	
	K BODY EXTERIOR.	DLK	Door & Lock	
	DOORS, ROOF & VEHICLE	SEC	Security Control System	
	SECURITY	GW	Glass & Window System	
		PWC	Power Window Control System	
		RF	Roof	
		EXT	Exterior	
		BRM	Body Repair	
	L DRIVER CONTROLS	MIR	Mirrors	
		EXL	Exterior Lighting System	
		INL WW	Interior Lighting System Wiper & Washer	
		DEF	Defogger	
		HRN	Horn	
All rights reserved. No part	M ELECTRICAL & POWER	PWO	Power Outlet	
of this Service Manual may	CONTROL	BCS	Body Control System	
be reproduced or stored in a		LAN	LAN System	
retrieval system, or transmit-		PCS	Power Control System	
ted in any form, or by any		CHG	Charging System	
means, electronic, mechani-	N 550/55 0055	PG	Power Supply, Ground & Circuit Elements	
cal, recording or otherwise,	N DRIVER INFORMATION & MULTIMEDIA	MWI	Meter, Warning Lamp & Indicator	
without the prior written per-	MOLIMEDIA	WCS	Warning Chime System	
mission of NISSAN MOTOR		AV	Audio, Visual & Navigation System	
CO., LTD.	O CRUISE CONTROL	CCS	Cruise Control System	
	P MAINTENANCE	MA	Maintenance	

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FOREWORD

This manual contains maintenance and repair procedure for the 2009 INFINITI EX35.

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.



QUICK REFERENCE CHART EX35

QUICK REFERENCE CHART EX35 ENGINE TUNE-UP DATA (VQ35HR)

PFP:00000

Εl	SC	000)3	W

Engine model			VQ35HR	
Firing order			1-2-3-4-5-6	
Idle speed A/T (In "N" position)		rpm	650 ± 50	
Ignition timing (BTDC at idle speed)			$16^{\circ} \pm 5^{\circ}$ (without 4WAS) $11^{\circ} \pm 5^{\circ}$ (with 4WAS)	
CO% at idle			0.7 - 9.9 % and engine runs smoothly	
Tensions of drive belts			Auto adjustment by auto tensioner	
Radiator cap relief pressu	ire	kPa (kg/cm², psi)		
	Standard		122.3 - 151.7 (1.2 - 1.5, 18 - 22)	
	Limit		107 (1.1, 16)	
Cooling system leakage to	esting pressure	kPa (kg/cm², psi)	157 (1.6, 23)	
Compression pressure		kPa (kg/cm ² , psi)/rpm		
	Standard		1,275 (13.0, 185)/300	
	Minimum		981 (10.0, 142)/300	
	Differential limit bety	veen cylinders	98 (1.0, 14)/300	
	Make		DENSO	
Spark plug (Iridium-tipped type)	Standard type		FXE22HR11	
(a.a.ii appod ijpo)	Gap (Nominal)	mm (in)	1.1 (0.043)	

FRONT WHEEL ALIGNMENT 2WD

ELS0003X

	Item		Standard	
Camber Degree minute (Decimal degree)		Minimum	-0° 40′ (-0.66°)	
		Nominal	0° 05′ (0.08°)	
		Maximum	0° 50′ (0.83°)	
		Left and right difference	0° 33′ (0.55°) or less	
		Minimum	3° 30′ (3.50°)	
Caster		Nominal	4° 15′ (4.25°)	
Degree minute	e (Decimal degree)	Maximum	5° 00′ (5.00°)	
		Left and right difference	0° 39′ (0.65°) or less	
		Minimum	6° 05′ (6.09°)	
Kingpin inclina	ation e (Decimal degree)	Nominal	6° 50′ (6.83°)	
Degree Hilliate (Declinal degree)		Maximum	7° 35′ (7.58°)	
	Distance	Minimum	0 mm (0 in)	
		Nominal	In 1 mm (0.04 in)	
Total toe-in		Maximum	In 2 mm (0.08 in)	
		Minimum	0° 00′ (0.00°)	
	Angle (Left wheel or right wheel) Degree minute (Decimal degree)	Nominal	In 0° 02′ 24″ (0.04°)	
	Degree fillitate (Decimal degree)	Maximum	In 0° 04′ 48″ (0.08°)	

Measure value under unladen* conditions.

AWD

Camber Degree minute (Decimal degree)		Minimum	-1° 05′ (-1.08°)
		Nominal	-0° 20′ (-0.33°)
		Maximum	0° 25′ (0.41°)
		Left and right difference	0° 33′ (0.55°) or less
		Minimum	3° 25′ (3.42°)
Caster		Nominal	4° 10′ (4.17°)
Degree minute	e (Decimal degree)	Maximum	4° 55′ (4.91°)
		Left and right difference	0° 39′ (0.65°) or less
		Minimum	6° 35′ (6.59°)
Kingpin inclinate Degree minute	ation e (Decimal degree)	Nominal	7° 20′ (7.33°)
Dogroo mina	o (Boomial dogroo)	Maximum	8° 05′ (8.08°)
	Distance	Minimum	0 mm (0 in)
Total toe-in		Nominal	In 1 mm (0.04 in)
		Maximum	In 2 mm (0.08 in)
		Minimum	0° 00′ (0.00°)
	Angle (Left wheel or right wheel) Degree minute (Decimal degree)	Nominal	In 0° 02′ 24″ (0.04°)
	begree minute (becima degree)	Maximum	In 0° 04′ 48″(0.08°)

Measure value under unladen* conditions.

^{*:} Fuel, engine coolant and lubricant are full. Spare tire, jack, hand tools and mats are in designated positions.

^{*:} Fuel, engine coolant and lubricant are full. Spare tire, jack, hand tools and mats are in designated positions.

REAR WHEEL ALIGNMENT

ELS0003Y

	Item		Standard
Camber		Minimum	-1° 05′ (-1.08°)
		Nominal	-0° 35′ (-0.58°)
_ og. ooa.o	(2 comian acgree)	Maximum	-0° 05′ (-0.09°)
		Minimum	0 mm (0 in)
D	Distance	Nominal	In 2.9 mm (0.114 in)
Total toe-in		Maximum	In 5.8 mm (0.228 in)
iotai to c- iii	Angle (Left wheel or right wheel) Degree minute (Decimal degree)	Minimum	0° 00′ (0.00°)
		Nominal	In 0° 07′ (0.12°)
		Maximum	In 0° 14′ (0.23°)

Measure value under unladen* conditions.

BRAKE PEDAL

Unit: mm (in)

Item	Standard		
Brake pedal height	Without DCA	171.5 – 181.5 (6.75 – 7.15)	
	With DCA	158.4 – 195.4 (7.30 – 7.69)	
Clearance between the stop lamp switch and ASCD brake switch threaded end and the stopper rubber	0.74 – 1.96 (0.0291 – 0.0772)		
Brake pedal play	3.0 – 11.0 (0.118 – 0.433)		
Depressed brake pedal height	Without DCA	114.0 (4.49) or more	
[Depressing 490 N (50 kg, 110 lb) while turning the engine ON]	With DCA	128.0 (4.76) or more	

FRONT DISK BRAKE

Unit: mm (in)

	Item	Limit
Brake pad	Wear thickness	2.0 (0.079)
Disc rotor	Wear thickness	26.0 (1.024)
	Thickness variation (measured at 8 positions)	0.015 (0.0006)
	Runout (with it attached to the vehicle)	0.035 (0.0014)

REAR DISK BRAKE

Unit: mm (in)

	Item	Limit
Brake pad	Wear thickness	2.0 (0.079)
Disc rotor	Wear thickness	14.0 (0.551)
	Thickness variation (measured at 8 positions)	0.015 (0.0006)
	Runout (with it attached to the vehicle)	0.055 (0.0022)

^{*:} Fuel, engine coolant and lubricant are full. Spare tire, jack, hand tools and mats are in designated positions.

QUICK REFERENCE CHART EX35

REFILL CAPACITIES

ELS00040

UNIT Fuel tank		Liter	US measure
		Applox. 76	20 gal
Engine Coolant (With re	servoir tank) at MAX level	8.6	9-1/8 qt
	Drain and refill		
Engine oil	With oil filter change	4.9	5-1/8 qt
Engine oil	Without oil filter change	4.6	4-7/8 qt
	Dry engine (Overhaul)	5.7	6 qt
Transmission	A/T	10.3	10-7/8 qt
Transfer		1.25	2-5/8 pt
Final drive	Front	0.65	1-3/8 pt
rinai unve	Rear	1.4	3 pt
Power steering system		1.0	1-1/8 qt
Air conditioning system	Compressor oil	0.15	5.03 fl oz
	Refrigerant	0.55 kg	1.21 lb