Editions July 2007	QUICK REFERENCE INDEX			
Edition: July 2007 Revision: September 2008	A GENERAL INFORMATION	Gl	General Information	
Publication No. SM8E-1V36U1	B ENGINE	EM	Engine Mechanical	Α
		LU	Engine Lubrication System	
		CO	Engine Cooling System	
		EC	Engine Control System	B
		FL	Fuel System	
		EX	Exhaust System	
		STR	Starting System	
		ACC	Accelerator Control System	
	C HYBRID			
	D TRANSMISSION & DRIVE-	CL	Clutch	D E F
	LINE	ТМ	Transaxle & Transmission	
		DLN	Driveline	
		FAX	Front Axle	
		RAX	Rear Axle	
\bigcirc	E SUSPENSION	FSU	Front Suspension	
		RSU	Rear Suspension	
		WT	Road Wheels & Tires	
N F N T _®	F BRAKES	BR	Brake System	G
G35 Sedan		PB	Parking Brake System	
		BRC	Brake Control System	
MODEL V36 SERIES	G STEERING	ST	Steering System	
		STC	Steering Control System	Н
	H RESTRAINTS	SB	Seat Belt	
		SBC	Seat Belt Control System	
		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
	J BODY INTERIOR	INT	Interior	
		IP	Instrument Panel	
		SE	Seat	
		ADP	Automatic Drive Positioner	
	K BODY EXTERIOR,	DLK	Door & Lock	
	DOORS, ROOF & VEHICLE SECURITY	SEC	Security Control System	
		GW	Glass & Window System	
		PWC	Power Window Control System	
		RF	Roof	
		EXT	Exterior	
		BRM	Body Repair	
	L DRIVER CONTROLS	MIR	Mirrors	Μ
		EXL	Exterior Lighting System	
		INL	Interior Lighting System	
		WW	Wiper & Washer	
		DEF	Defogger	
		HRN	Horn	
All rights reserved. No part	M ELECTRICAL & POWER CONTROL	PWO	Power Outlet	
of this Service Manual may		BCS	Body Control System	
be reproduced or stored in a		LAN PCS	LAN System Power Control System	
retrieval system, or transmit-		CHG	Charging System	
ted in any form, or by any		PG	Power Supply, Ground & Circuit Elements	
means, electronic, mechani-	N DRIVER INFORMATION &	MWI	Meter, Warning Lamp & Indicator	
cal, recording or otherwise,	cal, recording or otherwise, MULTIMEDIA WCS Warning	Warning Chime System		
without the prior written per-		wcs	Warning Chime System	
mission of Nissan Motor		AV	Audio, Visual & Navigation System	
Company Ltd., Tokyo, Japan.	O CRUISE CONTROL	CCS	Cruise Control System	
	P MAINTENANCE	MA	Maintenance	
		M/A	Maintenanoe	

FOREWORD

This manual contains maintenance and repair procedure for the 2008 INFINITI G35 Sedan.

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 G35 SEDAN

QUICK REFERENCE CHART G35 SEDAN ENGINE TUNE-UP DATA (VQ35HR)

ELS0003W

2008

Engine model		VQ35HR
Firing order		1-2-3-4-5-6
ldle speed A/T (In "N" position) M/T	rpm	650 ± 50
Ignition timing (BTDC at idle speed)		16° \pm 5° (without 4WAS) 11° \pm 5° (with 4WAS)
CO% at idle		0.7 - 9.9 % and engine runs smoothly
Tensions of drive belt		Auto adjustment by auto tensioner
Radiater cap relief pressu	re kPa (kg/cm ² , 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/cm ² , 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 between cylinders	98 (1.0, 14)/300
	Make	DENSO
Spark plug (Iridium-tipped type)	Standard type	FXE22HR11
	Gap (Nominal) mm (in)	1.1 (0.043)

FRONT WHEEL ALIGNMENT

ELS0003X

2008

Tire size			225/55R17	225/50R18	
Camber Degree minute (Decimal degree)		Minimum	-1° 05′ (-1.08°)		
		Nominal	-0° 20′ (-0.33°)		
		Maximum	0° 25′ (0.42°)		
		Left and right difference	0° 33′ (0.55°) or less		
		Minimum	3° 50′ (3.83°)	3° 55′ (3.92°)	
Caster		Nominal	4° 35′ (4.58°)	4° 40′ (4.67°)	
Degree minute (Decimal degree)		Maximum	5° 20′ (5.33°)	5° 25′ (5.42°)	
		Left and right difference	0° 39′ (0.65°) or less		
		Minimum	6° 35′ (6.58°)		
Kingpin inclir Degree minu	nation te (Decimal degree)	Nominal	7° 20′ (7.33°)		
209.00		Maximum	8° 05′ (8.08°)		
		Minimum	0 mm (0 in)		
	Distance	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′ 3	0″ (0.04°)	
		Maximum	In 0° 05′ (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.

AWD

Camber Degree minute (Decimal degree)		Minimum	-1° 05′ (-1.08°)	
		Nominal	-0° 20′ (-0.33°)	
		Maximum	0° 25′ (0.42°)	
		Left and right difference	0° 33' (0.55°) or less	
		Minimum	3° 15′ (3.25°)	
Caster		Nominal	4° 00′ (4.00°)	
Degree minu	ite (Decimal degree)	Maximum	4° 45′ (4.75°)	
		Left and right difference	0° 39′ (0.65°) or less	
		Minimum	6° 35′ (6.58°)	
Kingpin inclir	nation ite (Decimal degree)	Nominal	7° 20′ (7.33°)	
Dogroomin		Maximum	8° 05′ (8.08°)	
		Minimum	0 mm (0 in)	
	Distance	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′ 30″ (0.04°)	
		Maximum	In 0° 05′ (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.

QUICK REFERENCE CHART G35 SEDAN

REAR WHEEL ALIGNMENT

Applied med	Applied model		2WD		AWD	
Applied model		Without 4WAS	With 4WAS	AWD		
		Minimum	-1° 20′ (-1.33°)	–1° 25′ (–1.42°)	-0° 45′ (-0.75°)	
Camber Degree min	ute (Decimal degree)	Nominal	-0° 50′ (-0.83°)	-0° 55′ (-0.92°)	–0° 15′ (–0.25°)	
		Maximum	-0° 20′ (-0.33°)	-0° 25′ (-0.42°)	0° 15′ (0.25°)	
		Minimum	0 mm (0 in)			
	Distance	Nominal	In 2.8 mm (0.110 in)			
Tetel to a la		Maximum	In 5.6 mm (0.220 in)			
Total toe-in 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.

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

BRAKE PEDAL

Depressed brake pedal height (H1)	171.5 - 181.5 (6.75 - 7.15)
Brake pedal reserve height (H2) [Depressing 490 N (50 kg, 110 lb) while turning the engine ON]	124.0 (4.88) or more

FRONT DISK BRAKE

Front Caliper 1 Piston Type

Unit : mm (in)

Unit : mm (in)

Unit : mm (in)

Brake pad	Wear limit thickness	2.0 (0.079)
Disc rotor	Wear limit thickness	30.0 (1.181)

Front Caliper 2 Piston Type

Brake pad	Wear limit thickness	2.0 (0.079)
Disc rotor	Wear limit thickness	26.0 (1.024)

REAR DISK BRAKE

Front Caliper 1 Piston Type

		Unit : mm (in)
Brake pad	Wear limit thickness	2.0 (0.079)
Disc rotor	Wear limit thickness	15.0 (0.591)

Front Caliper 2 Piston Type

Unit : mm (in)

Brake pad	Wear limit thickness	2.0 (0.079)
Disc rotor	Wear limit thickness	14.0 (0.551)

ELS0003Y

QUICK REFERENCE CHART G35 SEDAN

REFILL CAPACITIES

ELS00040

UNIT			Liter	US measure
Fuel tank			76	20-1/8 gal
	Mith all applat models	A/T models	9.0	9-1/2 qt
Engine Coolant (With reservoir	With oil cooler models	M/T models	9.1	9-5/8 qt
tank) at MAX level	Without oil cooler models	A/T models	8.5	9 qt
	without oil cooler models	M/T models	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
Transmission	M/T		2.93	6-1/4 pt
Transfer	<u> </u>		1.25	2-5/8 pt
Final drive	Front		0.65	1-3/8 pt
rinai ulive	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
Air conditioning system	Refrigerant		0.55 kg	1.21 lb

2008