	QUICK REFERENCE INDEX			
Edition: September 2008 Revision: October 2009	A GENERAL INFORMATION	GI	General Information	
Publication No. SM9E-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	
	E SUSPENSION	FSU	Front Suspension	
		RSU	Rear Suspension	
		WT	Road Wheels & Tires	
N F N T _®	F BRAKES	BR	Brake System	
G37 Sedan		PB	Parking Brake System	G
		BRC	Brake Control System	
MODEL V36 SERIES	G STEERING	ST	Steering System	
		STC	Steering Control System	Η
	H RESTRAINTS	SB	Seat Belt	
		SBC	Seat Belt Control System	
		SR	SRS Airbag	
		SRC	SRS Airbag Control System	
	I VENTILATION, HEATER & AIR CONDITIONER	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 ADP	Seat Automatic Drive Positioner	
		ADP DLK		
	K BODY EXTERIOR, DOORS, ROOF & VEHICLE		Door & Lock Security Control System	
	SECURITY	SEC GW	Security Control System 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	PWO	Power Outlet	
of this Service Manual may	CONTROL	BCS	Body Control System	
be reproduced or stored in a		LAN	LAN System	
-		PCS	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,	MULTIMEDIA	WCS	Warning Chime System	
without the prior written per-				
mission of NISSAN MOTOR		AV	Audio, Visual & Navigation System	
CO., LTD.	O CRUISE CONTROL	CCS	Cruise Control System	
	P MAINTENANCE	MA	Maintenance	

FOREWORD

This manual contains maintenance and repair procedure for the 2009 INFINITI G37.

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 G37 SEDAN

QUICK REFERENCE CHART G37 SEDAN ENGINE TUNE-UP DATA (VQ37VHR)

DE	P:00000	۱.
ГГ	F.00000	,

ELS0003W

2009

Engine model			VQ37VHR
Firing order			1-2-3-4-5-6
ldle speed A/T (In "N" position) M/T		rţ	m 650 ± 50
Ignition timing (BTDC at idle speed)			$10^{\circ} \pm 5^{\circ}$
CO% at idle			0.7 - 9.9 % and engine runs smoothly
Tensions of drive belt			Belt tension is not necessary, as it is automatically adjusted by drive belt auto-tensioner.
Radiater cap relief pressur	e	kPa (kg/cm ² , psi)	
	Standard		122.3 - 151.7 (1.2 - 1.5, 18 - 22)
	Limit		107 (1.1, 16)
Cooling system leakage te	sting pressure	kPa (kg/cm ² , psi)	157 (1.6, 23)
Compression pressure		kPa (kg/cm ² , psi)/rpm	
	Standard		1,667 - 2,354 (17 - 24, 242 - 341)/200
	Minimum		1,226 (12.5, 178)/200
	Differential limi	t between cylinders	98 (1.0, 14)/200
	Make		DENSO
Spark plug (Iridium-tipped type)	Standard type		FXE24HR11
	Gap (Nominal)	mm (in)	1.1 (0.043)

FRONT WHEEL ALIGNMENT

ELS0003X

2009

Applied mode	el		Except for sports models	For sports models
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 minu	te (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	δ.58°)
Kingpin inclin Degree minu	nation te (Decimal degree)	Nominal	7° 20′ (7.33°)	
Bogroo mina		Maximum	8° 05′ (8.08°)	
		Minimum	0 mm (0 in)
	Distance	Nominal	In 1 mm (0.04 in)	
	Maximum	In 2 mm (0.08 in)	
Total toe-in Angle (Left wheel or right wheel) Degree minute (Decimal degree)		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.

AWD

		Minimum	-1° 10′ (-1.16°)
Camber Degree minute (Decimal degree)		Nominal	-0° 25′ (-0.42°)
		Maximum	0° 20′ (0.33°)
		Left and right difference	0° 33′ (0.55°) or less
		Minimum	3° 20′ (3.34°)
Caster		Nominal	4° 05′ (4.08°)
Degree minute (Decimal degree)		Maximum	4° 50′ (4.83°)
		Left and right difference	0° 39′ (0.65°) or less
		Minimum	6° 40′ (6.67°)
Kingpin inclir	nation ite (Decimal degree)	Nominal	7° 25′ (7.42°)
		Maximum	8° 10′ (8.16°)
		Minimum	0 mm (0 in)
	Distance	Nominal	In 1 mm (0.04 in)
	Maximum	In 2 mm (0.08 in)	
Total toe-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 G37 SEDAN

REAR WHEEL ALIGNMENT

EL	S00	003

2009

Applied model		2WD		AWD	
		Except for sports models	For sports models	AVVD	
Minimum		-1° 20′ (-1.33°) -1° 25′ (-1.42°)		(-1.42°)	
Camber Degree min	ute (Decimal degree)	Nominal	-0° 50′ (-0.83°)	-0° 55′	(–0.92°)
209.00			-0° 20′ (-0.33°) -0° 25′ (-0.42°)		(–0.42°)
		Minimum		0 mm (0 in)	
	Distance	Nominal	In 2.8 mm (0.110 in)		
Total toe-in			In 5.6 mm (0.220 in)		
		Minimum	0° 00′ (0.00°)		
	Angle (Left wheel or right wheel) Degree minute (Decimal degree)	Nominal	In 0° 07′ (0.12°)		
	Ma		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

Unit: mm (in)

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

2 Piston Type

Unit: mm (in)

Unit: mm (in)

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

4 Piston Type

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

REAR DISK BRAKE

1 Piston Type

		Unit: mm (in)
Brake pad	Wear limit thickness	2.0 (0.079)
Disc rotor	Wear limit thickness	14.0 (0.551)

2 Piston Type

Unit: mm (in)

Brake pad	Wear limit thickness	2.0 (0.079)
Disc rotor	Wear limit thickness	18.0 (0.709)

QUICK REFERENCE CHART G37 SEDAN

REFILL CAPACITIES

ELS00040

2009

UNIT		Liter	US measure
Fuel tank		75.6	20 gal
Engine Coolant (With reservoir tank) at MAX level	A/T models	8.5	9 qt
	M/T models	8.6	9-1/8 pt
Engine oil	Drain and refill		
	With oil filter change	4.9	5-1/8 qt
	Without oil filter change	4.6	4-7/8 qt
	Dry engine (Overhaul)	5.7	6 qt
Transmission	A/T	9.2	9-3/4 qt
	M/T VIN: UP to JNKCV61E69M303072 (Without 4WAS) or JNKCV61E89M013724 (With 4WAS) VIN: From JNKCV61E69M303073	2.93	6-1/4 qt
	(Without 4WAS) or JNKCV61E89M013725 (With 4WAS)	2.83	6 qt
Transfer		1.0	2-1/8 pt
Final drive	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	0.15	5.07 fl oz
	Refrigerant	0.55 kg	1.21 lb