Edition: March 2009	QUICK REFERENCE INDEX			
Revision: March 2009	A GENERAL INFORMATION	GI	General Information	
Publication No. SM9E-1H36U1	B ENGINE	EM	Engine Mechanical	
		LU	Engine Lubrication System	
		CO	Engine Cooling System	
		EC	Engine Control System	B
		FL EX	Fuel System	
		EX STR	Exhaust System Starting System	
		ACC	Accelerator Control System	
	C HYBRID	700	Accelerator Control System	
	D TRANSMISSION & DRIVE-	CL	Clutch	
	LINE	ТМ	Transaxle & Transmission	
		DLN	Driveline	
		FAX	Front Axle	E
		RAX	Rear Axle	
	E SUSPENSION	FSU	Front Suspension	
		RSU	Rear Suspension	F
		WT	Road Wheels & Tires	
N F N T _®	F BRAKES	BR	Brake System	
		PB	Parking Brake System	G
G37 Convertible		BRC	Brake Control System	G
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	
		HA HAC	Heater & Air Conditioning System Heater & Air Conditioning Control System	
	J BODY INTERIOR	INT	Interior	
	3 BODT INTERIOR	IP	Instrument Panel	U
		SE	Seat	
		ADP	Automatic Drive Positioner	
	K BODY EXTERIOR,	DLK	Door & Lock	
	DOORS, ROOF & VEHICLE SECURITY	SEC	Security Control System	
	SECONT	GW	Glass & Window System	
		PWC	Power Window Control System	
		RF	Roof	
		EXT	Exterior	
	L DRIVER CONTROLS	BRM	Body Repair	
	L DRIVER CONTROLS	MIR EXL	Mirrors 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	
retrieval system, or transmit-		PCS	Power Control System	
ted in any form, or by any		CHG	Charging System	
means, electronic, mechani-		PG	Power Supply, Ground & Circuit Elements	
cal, recording or otherwise,	N DRIVER INFORMATION & MULTIMEDIA	MWI	Meter, Warning Lamp & Indicator	
without the prior written per-	MOLTIMEDIA	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	
			indimonanoo	

FOREWORD

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

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 CONVERTIBLE

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

PFP:00000

2009

Engine model		VQ37VHR	
Firing order			1-2-3-4-5-6
Idle speed rpm A/T (In "P or N" position) M/T (In Neutral position)		rpm	650 ± 50
Ignition timing (BTDC at idle speed)			$10^\circ\pm5^\circ$
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/cm², psi)	157 (1.6, 23)
Compression pressure		kPa (kg/cm ² , psi)/200 rpm	
	Standard		1,667 - 2,354 (17 - 24, 242 - 341)
	Minimum		1,226 (12.5, 178)
	Differential lim	it between cylinders	98 (1.0, 14)
	Make		DENSO
Spark plug (Iridium-tipped type)	Standard type		FXE24HR11
	Con	Standard	1.1 mm (0.043 in)
	Gap	Limit	1.4 mm (0.055 in)

FRONT WHEEL ALIGNMENT

ELS0003X

2009

Wheel size		225/50R18	225/45R19	
Camber Degree minute (Decimal degree)		Minimum	-1° 10′ (-1.16°)	
		Nominal	-0° 25′ (-0.41°)	
		Maximum	0° 20′ (0.33°)	
		Left and right difference	0° 33' (0.55°) or less	
		Minimum	4° 05′ (4.08°)	4° 10′ (4.17°)
Caster		Nominal	4° 50′ (4.83°)	4° 55′ (4.92°)
Degree minute (Decimal degree)		Maximum	5° 35′ (5.58°)	5° 40′ (5.66°)
		Left and right difference	0° 39′ (0.65°) or less	
		Minimum	6° 40′ (6.67°)	
Kingpin incli	ination ute (Decimal degree)	Nominal	7° 25′ (7.42°)	
		Maximum	8° 10′ (8.16°)	
		Minimum	0 mm (0.00 in)	
		Nominal	In 1 mm (0.04 in)	
		Maximum	In 2 mm (0.08 in)	
		Minimum	0° 00′ (0.00°)	
	Toe-angle (left wheel or right wheel) Degree minute (Decimal degree)	Nominal	In 0° 03′ (0.05°)	
		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.

REAR WHEEL ALIGNMENT

Camber Degree minute (Decimal degree)		Minimum	-1° 45′ (-1.75°)
		Nominal	-1° 15′ (-1.25°)
		Maximum	-0° 45′ (-0.75°)
Total toe-in Distance Toe-in Toe angle (left wheel or right wheel) Degree minute (Decimal degree)		Minimum	0 mm (0.00 in)
		Nominal	In 2.8 mm (0.110 in)
	Distance	Maximum	In 5.6 mm (0.220 in)
		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

Unit: mm (in)

ELS0003Y

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

QUICK REFERENCE CHART G37 CONVERTIBLE

FRONT DISK BRAKE

1 Piston Type

Unit: mm (in)

Item		Limit	
Brake pad	Wear thickness	2.0 (0.079)	
	Wear thickness	30.0 (1.181)	
Disc rotor	Thickness variation (measured at 8 positions)	0.015 (0.0006)	
	Runout (with it attached to the vehicle)	0.035 (0.0014)	

4 Piston Type

Unit: mm (in)

Item		Limit	
Brake pad	Wear thickness	2.0 (0.079)	
	Wear thickness	30.0 (1.181)	
Disc rotor	Thickness variation (measured at 8 positions)	0.015 (0.0006)	
	Runout (with it attached to the vehicle)	0.035 (0.0014)	

REAR DISK BRAKE

1 Piston Type

Unit: mm (in)

	Item	Limit
Brake pad	Wear thickness	2.0 (0.079)
	Wear thickness	15.0 (0.591)
Disc rotor	Thickness variation (measured at 8 positions)	0.015 (0.0006)
	Runout (with it attached to the vehicle)	0.055 (0.0022)

2 Piston Type

Unit: mm (in)

Item		Limit	
Brake pad	Wear thickness	2.0 (0.079)	
	Wear thickness	18.0 (0.709)	
Disc rotor	Thickness variation (measured at 8 positions)	0.015 (0.0006)	
	Runout (with it attached to the vehicle)	0.055 (0.0022)	

QUICK REFERENCE CHART G37 CONVERTIBLE

REFILL CAPACITIES

ELS00040

UNIT		Liter	US measure
Fuel tank		75.6	20 gal
Engine Coolant (With reservoir tank) at MAX	A/T models	8.5	9 qt
level	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	9.2	9-3/4 qt
Transmission	M/T	2.83	6 pt
Final drive		1.4	3 pt
Power steering system		1.0	1-1/8 qt
	Compressor oil	0.15	5.07 fl oz
Air conditioning system	Refrigerant	0.55 kg	1.21 lb

2009