	QUICK REFERENCE INDEX			
Edition: June 2007	A GENERAL INFORMATION GI General Information			
Revision: June 2007 Publication No. SM8E-1C36U0				
Publication No. Swide-103000	B ENGINE	EM LU	Engine Mechanical Engine Lubrication System	
		CO	Engine Cooling System	
		EC	Engine Control System	
		FL	Fuel System	
		EX	Exhaust System	
		STR	Starting System	
		ACC	Accelerator Control System	
	C HYBRID		,	
	D TRANSMISSION & DRIVE-	CL	Clutch	
	LINE	TM	Transaxle & Transmission	
		DLN	Driveline	
		FAX	Front Axle	
		RAX	Rear Axle	
	E SUSPENSION	FSU	Front Suspension	
INFINITI®		RSU	Rear Suspension	
C27 0		WT	Road Wheels & Tires	
G37 Coupe	F BRAKES	BR	Brake System	
MODEL V36 SERIES		PB	Parking Brake System	
MODEL V30 SERIES		BRC	Brake Control System	
	G STEERING	ST	Steering System	
		STC	Steering Control System	
	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	
	7 III GGNENIGILER	HA	Heater & Air Conditioning System	
	J BODY INTERIOR	HAC	Heater & Air Conditioning Control System Interior	
	3 BODT 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	
7 -		EXL	Exterior Lighting System	
INFINITI®		INL	Interior Lighting System	
		ww	Wiper & Washer	
© 2007 NISSAN MOTOR CO.,LTD.		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 &	MWI	Meter, Warning Lamp & Indicator	
without the prior written per-	MULTIMEDIA	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	

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B

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G

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## **FOREWORD**

This manual contains maintenance and repair procedure for the 2008 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.



NISSAN MOTOR CO., LTD.

#### **QUICK REFERENCE CHART G37 COUPE**

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

PFP:00000

ELS0003W

Engine model		VQ37VHR	
Firing order		1-2-3-4-5-6	
Idle speed A/T (In "P or N" position) M/T (In Neutral position)	rpm	$650\pm50$	
Ignition timing (BTDC at idle speed)		10° ± 5°	
CO% at idle		0.7 - 9.9 % and engine runs smoothly	
Tensions of drive belts		Auto adjustment by auto tensioner	
Radiater cap relief pressu	ure kPa (kg/cm² , psi)		
	Standard	122.3 - 151.7 (1.2 - 1.5, 18 - 22)	
	Limit	107 (1.1, 16)	
Cooling system leakage	testing pressure kPa (kg/cm <sup>2</sup> , psi)	157 (1.6, 23)	
Compression pressure	kPa (kg/cm² , psi)/rpm		
	Standard	1,667 - 2,354 (17 - 24, 242 - 341)	
	Minimum	1,226 (12.5, 178)	
	Differential limit between cylinders	98 (1.0, 14)	
Spark plug (Iridium-tipped type)	Make	DENSO	
	Standard type	FXE24HR11	
	Gap (Nominal) mm (in)	1.1 (0.043)	

### FRONT WHEEL ALIGNMENT 2WD

ELS0003X

Camber Degree minute (Decimal degree)		Minimum	-1° 10′ (-1.17°)
		Nominal	-0° 25′ (-0.42°)
		Maximum	0° 20′ (0.33°)
		Left and right difference	0° 33′ (0.55°) or less
		Minimum	4° 05′ (4.08°)
Caster		Nominal	4° 50′ (4.83°)
Degree minu	te (Decimal degree)	Maximum	5° 35′ (5.58°)
		Left and right difference	0° 39′ (0.65°) or less
		Minimum	6° 40′ (6.67°)
Kingpin inclir	nation te (Decimal degree)	Nominal	7° 25′ (7.42°)
2 og. ooa	(2 coa. dog. co,	Maximum	8° 10′ (8.17°)
		Minimum	0 mm (0 in)
	Distance	Nominal	In 1 mm (0.04 in)
Total toe-in		Maximum	In 2 mm (0.08 in)
TOTAL TOE-III	Angle (Left wheel or right wheel) Degree minute (Decimal degree)	Minimum	0° 00′ (0.00°)
		Nominal	In 0° 02′ 30″ (0.04°)
	(	Maximum	In 0° 05′ (0.08°)

Measure value under unladen\* conditions.

#### **REAR WHEEL ALIGNMENT**

ELS0003Y

Applied model		Except for sport models	For sport models	
Camber Degree minute (Decimal degree)		Minimum	-1° 50′ (-1.83°)	
		Nominal	-1° 20′ (-1.33°)	
_ og. oo	ato (2 00a. dog.00)	Maximum	-0° 50′ (-0.83°)	
	Minimum	0 mm (0 in)	0 mm (0 in)	
	Distance	Nominal	In 2.9 mm (0.110 in)	In 2.8 mm (0.110 in)
Takal ka a in	Maximum	In 5.8 mm (0.220 in)	In 5.6 mm (0.220 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° 07′ (0.12°)	
Dogico minuto (Docimar dogico)		Maximum	In 0° 14′ (0.23°)	

Measure value under unladen\* conditions.

#### **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	

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

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

#### **FRONT DISK BRAKE**

#### 1 Piston Type

Unit: mm (in.)

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

#### **4 Piston Type**

Unit: mm (in.)

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	15.0 (0.591)

#### 2 Piston Type

Unit: mm (in.)

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

#### **REFILL CAPACITIES**

ELS00040

UNIT		Liter	US measure
Fuel tank		76	20 gal
Engine Coolant (With reservoir tank) at MAX level		9.0	9-1/2 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
Torrespirate	A/T	10.3	10-7/8 qt
Transmission	M/T	2.93	6-1/4 pt
Transfer		1.25	2-5/8 pt
Final data	Front	0.65	1-3/8 pt
Final drive	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