Edition: November 2009	QUICK REFERENCE INDEX		
Publication No. SM0E-1C36U0	A GENERAL INFORMATION	GI	General Information
	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-	CL	Clutch
	LINE	TM	Transaxle & Transmission
		DLN	Driveline
		FAX	Front Axle
	E SUSPENSION	RAX FSU	Rear Axle Front Suspension
	E SUSPENSION	RSU	Rear Suspension
4		11.00	iteal ouspellsion
INFINITI®	E DDAVEC	WT	Road Wheels & Tires
	F BRAKES	BR	Brake System
G37 Coupe		PB	Parking Brake System
MODEL V36 SERIES	G STEERING	BRC	Brake Control System Steering System
	G STEENING	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 &	VTL	Ventilation System
	AIR CONDITIONER	HA	Heater & Air Conditioning System
		HAC	Heater & Air Conditioning Control System
	J BODY INTERIOR	INT	Interior
		IP	Instrument Panel
		SE 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	Interior Lighting System
		WW	Wiper & Washer
		DEF HRN	Defogger 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		SN	Sonar System
	O COLUCE CONTEST	AV	Audio, Visual & Navigation System
CO., LTD.	O CRUISE CONTROL P MAINTENANCE	CCS MA	Cruise Control System
	F WAINTENANCE	WA	Maintenance

A B

> υ Ε

G

K

M

N O

P

FOREWORD

This manual contains maintenance and repair procedure for the 2010 INFINITI G37 Coupe.

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.



ELS0003W

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

Standard type

Gap (Nominal)

(Iridium-tipped type)

PFP:00000

FXE24HR11

1.1 (0.043)

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)		650 ± 50	
Ignition timing (BTDC at idle speed)		10° ± 5°	
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 pressure kPa (kg/cm², p			
	Standard	122.3 - 151.7 (1.2 - 1.5, 18 - 22)	
	Limit	107 (1.1, 16)	
Cooling system leakage testing pressure kPa (kg/cm², psi)		157 (1.6, 23)	
Compression pressure	kPa (kg/cm², psi)/200 rpm		
	Standard	1,667 - 2,354 (17 - 24, 242 - 341)	
	Minimum	1,226 (12.5, 178)	
	Differential limit between cylinders	98 (1.0, 14)	
	Make	DENSO	
Spark plug	Standard type	FXF24HR11	

mm (in)

FRONT WHEEL ALIGNMENT

ELS0003X

Applied model		2WD	AWD	
Camber Degree minute (Decimal degree) M		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°)	3° 30′ (3.50°)
Caster		Nominal	4° 50′ (4.83°)	4° 15′ (4.25°)
Degree minu	te (Decimal degree)	Maximum	5° 35′ (5.58°)	5° 00′ (5.00°)
		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°)	
Degree minute (Decimal degree)		Maximum	8° 10′ (8.16°)	
		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°)	
	Dog. coa.c (Doominal dog. co)	Maximum	In 0° 05′ (0.08°)	

Measure value under unladen* conditions.

REAR WHEEL ALIGNMENT

ELS0003Y

Camber Degree minute (Decimal degree)		Minimum	-1° 45′ (-1.75°)
		Nominal	-1° 15′ (-1.25°)
		Maximum	-0° 45′ (-0.75°)
Distance	Minimum	0 mm (0 in)	
	Distance	Nominal	In 2.8 mm (0.110 in)
Total toe-in		Maximum	In 5.6 mm (0.220 in)
Angle (Left who	Angle (Left wheel or right wheel) Degree minute (Decimal degree)	Minimum	0° 00′ (0.00°)
		Nominal	In 0° 07′ (0.12°)
	ig is a second and group,	Maximum	In 0° 14′ (0.23°)

Measure value under unladen* conditions.

BRAKE PEDAL

Unit: mm (in)

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	

^{*:} 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.

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)	

2 Piston Type

Unit: mm (in)

Item		Limit	
Brake pad	Wear thickness	2.0 (0.079)	
	Wear thickness	26.0 (1.024)	
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)	
Disc rotor	Wear thickness	30.0 (1.181)	
	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 (Front 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)	

1 Piston (Front 2 Piston) Type

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)	

2 Piston Type

Unit: mm (in)

Item		Limit	
Brake pad	Wear thickness	2.0 (0.079)	
Disc rotor	Wear thickness	18.0 (0.709)	
	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 COUPE

2010

REFILL CAPACITIES

ELS00040

UNIT Fuel tank		Liter	US measure
		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		
Finalis at 1	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
Transfer		1.0	2-1/8 pt
Final diva	Front	0.65	1-3/8 pt
Final drive	Rear	1.4	3 pt
Power steering system		1.0	1-1/8 qt
Attack Programme and the	Compressor oil	0.15	5.07 fl oz
Air conditioning system	Refrigerant	0.55 kg	1.21 lb