	QUICK REFERENCE INDEX			
Edition: November 2009 Publication No. SM0E-1V36U0	A GENERAL INFORMATION	GI	General Information	
Fublication No. SMOE-103000	B ENGINE	EM	Engine Mechanical	
		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	
	LINE	ТМ	Transaxle & Transmission	
		DLN	Driveline	Ε
		FAX	Front Axle	
		RAX	Rear Axle	
	E SUSPENSION	FSU	Front Suspension	
		RSU	Rear Suspension	F
N F N T _®		WT	Road Wheels & Tires	
	F BRAKES	BR	Brake System	
G37 Sedan		PB	Parking Brake System	G
MODEL V36 SERIES	0.07555110	BRC	Brake Control System	
	G STEERING	ST	Steering System	
		STC	Steering Control System	H
	H RESTRAINTS	SB	Seat Belt	
		SBC	Seat Belt Control System	
		SR	SRS Airbag	
		SRC VTL	SRS Airbag Control System	
	I VENTILATION, HEATER & AIR CONDITIONER	HA	Ventilation System Heater & Air Conditioning System	
		HAC	Heater & Air Conditioning Control System	
	J BODY INTERIOR	INT	Interior	
	3 BODT INTERIOR	IP	Instrument Panel	
		SE	Seat	
		ADP	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	\mathbf{N}_{I}
	L DRIVER CONTROLS	MIR	Mirrors	
		EXL	Exterior Lighting System	
		INL	Interior Lighting System	
		WW	Wiper & Washer	
		DEF	Defogger	
		HRN	Horn	
All rights reserved. No part	M ELECTRICAL & POWER	PWO		
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-		WCS	Warning Chime System	
mission of NISSAN MOTOR		SN	Sonar System	
CO., LTD.		AV	Audio, Visual & Navigation System	
CO., LID.		CCS	Cruise Control System	
	P MAINTENANCE	MA	Maintenance	

FOREWORD

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

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

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 ± 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		Auto adjustment by auto tensioner	
Radiater cap relief press	ure kPa (kg/cm ² , psi)		
	Standard	122.3 - 151.7 (1.2 - 1.5, 18 - 22)	
	Limit	107 (1.1, 16)	
Cooling system leakage	resting 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 limit 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)	

ELS0003W

PFP:00000

FRONT WHEEL ALIGNMENT

ELS0003X

2010

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′ (6.58°)	
Kingpin inclir Degree minu	nation te (Decimal degree)	Nominal	7° 20′ (7.33°)	
Dogroo mina		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.

AWD

Wheel size			17 inch	18 inch
Camber Degree minute (Decimal degree)		Minimum	-1° 10′ (-1.16°)	
		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°)	3° 25′ (3.42°)
Caster		Nominal	4° 05′ (4.08°)	4° 10′ (4.17°)
Degree minute (Decimal degree)		Maximum	4° 50′ (4.83°)	4° 55′ (4.91°)
		Left and right difference	0° 39′ (0.65°) or less	
		Minimum	6° 40′ (6.67°)	
Kingpin inclir Degree minu	nation ite (Decimal degree)	Nominal	7° 25′ (7.42°)	
209.00		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)	
Angle		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

2010

Applied mor	Applied model		2WD		AWD
		Except for sports models	For sports models	AND	
Minimum		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°)
			-0° 20′ (-0.33°)	-0° 25′ (-0.42°)	
			0 mm (0 in)		
	Distance	Nominal	In 2.8 mm (0.110 in)		
Total toe-in	Tatal ta a in		In 5.6 mm (0.220 in)		
10181 108-111			0° 00′ (0.00°)		
	Angle (Left wheel or right wheel) Degree minute (Decimal degree)	Nominal	In 0° 07′ (0.12°)		
_			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

UNIT		Liter	US measure
Fuel tank		75.6	20 gal
Engine Coolant (With reservoir tank)	A/T models	8.5	9 qt
at MAX level	M/T models	8.6	9-1/8 pt
	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
	M/T	2.83	6 pt
Transfer		1.0	2-1/8 pt
Final drive	Front	0.65	1-3/8 pt
Final drive	Rear	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