Edition: August 2011	QUICK REFERENCE INDEX			
Revision: February 2013	A GENERAL INFORMATION	GI	General Information	
Publication No. SM2E-1C36U1	B ENGINE	EM LU	Engine Mechanical	
		CO	Engine Lubrication System Engine Cooling System	
		EC	Engine Control System	
		FL	Fuel System	
		EX	Exhaust System Starting System	B
		STR ACC	Accelerator Control System	
	C ELECTRIC POWER TRAIN			
	D TRANSMISSION & DRIVELINE	CL	Clutch	
	D TRANSMISSION & DRIVELINE	TM	Transaxle & Transmission	
		DLN	Driveline	
		FAX	Front Axle	
	E SUSPENSION	RAX FSU	Rear Axle Front Suspension	
	E SUSPENSION	RSU	Rear Suspension	F
		WT	Road Wheels & Tires	
G Coupe	F BRAKES	BR	Brake System	
-		PB BRC	Parking Brake System Brake Control System	
MODEL V36 SERIES	G STEERING	ST	Steering System	
		STC	Steering Control System	
	H RESTRAINTS	SB	Seat Belt	
		SBC SR	Seat Belt Control System SRS Airbag	
		SRC	SRS Airbag Control System	
	I VENTILATION, HEATER & AIR CONDITIONER		Ventilation System	
	CONDITIONER	HA HAC	Heater & Air Conditioning System Heater & Air Conditioning Control System	
	J BODY INTERIOR	INT	Interior	
		IP	Instrument Panel	
		SE	Seat	
	K BODY EXTERIOR, DOORS,	ADP DLK	Automatic Drive Positioner Door & Lock	
	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	
		EXL INL	Exterior Lighting System Interior Lighting System	
		ww	Wiper & Washer	
		DEF	Defogger	
		HRN	Horn	
	M ELECTRICAL & POWER CON-	PWO	Power Outlet	
	TROL	BCS	Body Control System	
All Rights Reserved. No part		LAN	LAN System	
of this Service Manual may		PCS	Power Control System	
be reproduced or stored in a		CHG PG	Charging System Power Supply, Ground & Circuit Elements	
retrieval system, or transmit-	N DRIVER INFORMATION &	MWI	Meter, Warning Lamp & Indicator	
ted in any form, or by any	MULTIMEDIA	WCS	Warning Chime System	
means, electronic, mechani-		SN AV	Sonar System Audio, Visual & Navigation System	
cal, recording or otherwise,	O CRUISE CONTROL &	CCS	Cruise Control System	
without the prior written per-	DRIVER ASSISTANCE			
mission of NISSAN MOTOR				
CO., LTD.	P MAINTENANCE	MA	Maintenance	

FOREWORD

This manual contains maintenance and repair procedure for the 2012 INFINITI G 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.



PLEASE HELP MAKE THIS SERV	ICE MANUAL BETTER!
Your comments are important to INFINITI and will help us to imp	
Use this form to report any issues or comments you may have r	
Please print this form and type or write your comments below. M	lail or fax to:
Nissan North America, Inc. Technical Service Information	
39001 Sunrise Drive, P.O. Box 9200	
Farmington Hills, MI USA 48331	
FAX: (248) 488-3880	
SERVICE MANUAL: Model: Year:	
PUBLICATION NO. (Refer to Quick Reference Index):	
Please describe any Service Manual issues or problems in detail:	
Page number(s) Note: Please include a copy of	each page, marked with your comments.
Are the trouble diagnosis procedures logical and easy to use? (ci	
If no, what page number(s)?Note: Please include a copy of	
Please describe the issue or problem in detail:	
Is the organization of the manual clear and easy to follow? (circle	your answer) YES NO
Please comment:	
What information should be included in INFINITI Service Manuals	to better support you in servicing or
repairing customer vehicles?	
DATE: YOUR NAME:	
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CITY: STATE/PROV./COUNTRY:	ZIP/POSTAL CODE:

QUICK REFERENCE CHART G COUPE

QUICK REFERENCE CHART G COUPE 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)			$10^\circ \pm 5^\circ$
Tensions of drive belt			Belt tension is not necessary, as it is automatically adjusted by drive belt 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/cm ² , psi)	157 (1.6, 23)
Compression pressure	kP	a (kg/cm ² , psi)/200 rpm	
	Standard		1,667 - 2,354 (17 - 24, 242 - 341)
	Minimum		1,226 (12.5, 178)
	Differential limit betw	ween cylinders	98 (1.0, 14)
	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	

2012

Applied model		2WD	AWD	
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	4° 05′ (4.08°)	3° 30′ (3.50°)
Caster Degree minute (Decimal degree)		Nominal	4° 50′ (4.83°)	4° 15′ (4.25°)
		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 inc Degree mi	clination nute (Decimal degree)	Nominal	7° 25′ (7.42°)	
		Maximum	8° 10′ (8.16°)	
		Minimum	Out 1 mm (Out 0.03 in)	
Toe-in –	Total toe-in Distance	Nominal	In 1 mm (In 0.04 in)	
		Maximum	In 3 mm (In 0.11 in)	
		Minimum	Out 0° 04' 48" (Out 0.08°)	
	Toe-angle Degree minute (Decimal degree)	Nominal	ln 0° 04′ 48″ (ln 0.08°)	
		Maximum	ln 0° 15′ 00″ (ln 0.25°)	

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

Minimum -1° 45' (-1.75°) Camber Nominal -1° 15' (-1.25°) Degree minute (Decimal degree) Maximum -0° 45′ (-0.75°) Minimum 0 mm (0 in) Total toe-in Nominal In 2.8 mm (In 0.110 in) Distance Maximum In 5.6 mm (In 0.220 in) Toe-in Minimum 0° 00′ (0.00°) Toe-angle Nominal In 0° 13' 48" (In 0.23°) Degree minute (Decimal degree) Maximum In 0° 28' 12" (In 0.47°)

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

QUICK REFERENCE CHART G COUPE

FRONT DISC BRAKE

1 Piston Type

	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 DISC BRAKE

1 Piston Type

Unit: mm (in)

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

 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)

Unit: mm (in)

QUICK REFERENCE CHART G COUPE

REFILL CAPACITIES

ELS00040

UNIT		Liter	US measure
Fuel tank		75.6	20 gal
Engine coolant capacity	A/T models	8.5	9 qt
[with reservoir tank ("MAX" level)]	M/T models	8.6	9-1/8 qt
	Drain and refill		
	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 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