Edition: Echryony 2002	QUICK REFERENCE INDEX			
Edition: February 2002	A GENERAL INFORMATION	Gl	General Information	
Publication No. SM3E-1V35U8	B ENGINE	EM	Engine Mechanical	
		LU	Engine Lubrication System	
		CO	Engine Cooling System	D
		EC	Engine Control System	B
		FL	Fuel System	
		EX	Exhaust System	
		ACC	Accelerator Control System	С
	C TRANSMISSION/	CL	Clutch	
	TRANSAXLE	MT	Manual Transmission	
		AT	Automatic Transmission	D
	D DRIVELINE/AXLE	PR	Propeller Shaft	
		RFD	Rear Final Drive	
		FAX	Front Axle	Ε
G35 Coupe			Rear Axle	
MODEL V35 SERIES	E SUSPENSION		Front Suspension	
			Rear Suspension	
		WT	Road Wheels & Tires	
	F BRAKES	BR	Brake System	
	I DRARES	PB	Parking Brake System	G
		BRC	Brake Control System	
	G STEERING	PS	Power Steering System	
	H RESTRAINTS	SB	Seat Belts	H
	H KESIKAINIS	_		
		SRS	Supplemental Restraint System (SRS)	
	I BODY	BL	Body, Lock & Security System	
		GW	Glasses, Window System & Mir-	
			rors	
		RF	Roof	J
		El	Exterior & Interior	
		IP	Instrument Panel	
		SE	Seat	
	J AIR CONDITIONER	ATC	Automatic Air Conditioner	
	K ELECTRICAL	SC	Starting & Charging System	
	R ELEOTRICAL	LT	Lighting System	
		DI	Driver Information System	
		WW	Wiper, Washer & Horn	
			Body Control System	Μ
			LAN System	
		AV	Audio, Visual, Navigation & Tele-	
			phone System	
		ACS	Auto Cruise Control System	
		PG	Power Supply, Ground & Circuit El-	
			ements	
VV	L MAINTENANCE	MA	Maintenance	
	M INDEX	IDX	Alphabetical Index	

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FOREWORD

This manual contains maintenance and repair procedure for the 2003 INFINITI G35 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.



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FAX: (248) 488-3910	
SERVICE MANUAL: Model:	Voar
PUBLICATION NO. (Refer to Quick Reference Index):	
Please describe any Service Manual issues or problems	
Page number(s) Note: Please inclu	
Are the trouble diagnosis procedures logical and eas	y to use? (circle your answer) YES NO
If no, what page number(s)?Note: Please inc	lude a copy of each page, marked with your comments.
Please describe the issue or problem in detail:	
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Please comment:	
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repairing customer vehicles?	
DATE: YOUR NAME:	
DEALER: FOOR NAME DEALER: DEALER NO.:	
CITY: STATE/PROV./COUNTF	

INCH TO METRIC CONVERSION TABLE

(Rounded-off for automotive use)

METRIC TO INCH CONVERSION TABLE

(Rounded-off for automotive use)

	for automoti	,	
inches	mm	inches	mm
.100	2.54	.610	15.49
.110	2.79	.620	15.75
.120	3.05	.630	16.00
.130	3.30	.640	16.26
.140	3.56	.650	16.51
.150	3.81	.660	16.76
.160	4.06	.670	17.02
.170	4.32	.680	17.27
.180	4.57	.690	17.53
.190	4.83	.700	17.78
.200	5.08	.710	18.03
.210	5.33	.720	18.29
.220	5.59	.730	18.54
.220	5.84	.740	18.80
.240	6.10	.750	19.05 19.30
.250	6.35	.760	
.260	6.60	.770	19.56
.270	6.86	.780	19.81
.280	7.11	.790	20.07
.290	7.37	.800	20.32
.300	7.62	.810	20.57
.310	7.87	.820	20.83
.320	8.13	.830	21.08
.330	8.38	.840	21.34
.340	8.64	.850	21.59
.350	8.89	.860	21.84
.360	9.14	.870	22.10
.370	9.40	.880	22.35
.380	9.65	.890	22.61
.390	9.91	.900	22.86
.400	10.16	.910	23.11
.410	10.41	.920	23.37
.420	10.67	.930	23.62
.430	10.92	.940	23.88
.440	11.18	.950	24.13
.450	11.43	.960	24.38
.460	11.68	.970	24.64
.470	11.94	.980	24.89
.480	12.19	.990	25.15
.490	12.45	1.000	25.40
.500	12.70	2.000	50.80
.510	12.95	3.000	76.20
.520	13.21	4.000	101.60
.520	13.46	5.000	127.00
	13.40		152.40
.540		6.000	
.550	13.97	7.000	177.80
.560	14.22	8.000	203.20
.570	14.48	9.000	228.60
.580	14.73	10.000	254.00
.590	14.99	20.000	508.00
.600	15.24		

	for automoti	,	
mm	inches	mm	inches
1	.0394	51	2.008
2	.079	52	2.047
3	.118	53	2.087
4	.157	54	2.126
5	.197	55	2.165
6	.236	56	2.205
7			
	.276	57	2.244
8	.315	58	2.283
9	.354	59	2.323
10	.394	60	2.362
11	.433	61	2.402
12	.472	62	2.441
13	.512	63	2.480
14	.551	64	2.520
15	.591	65	2.559
16	.630	66	2.598
17	.669	67	2.638
17	.709	68	
			2.677
19	.748	69	2.717
20	.787	70	2.756
21	.827	71	2.795
22	.866	72	2.835
23	.906	73	2.874
24	.945	74	2.913
25	.984	75	2.953
26	1.024	76	2.992
27	1.063	77	3.031
28	1.102	78	3.071
29	1.142	79	3.110
30		80	
	1.181		3.150
31	1.220	81	3.189
32	1.260	82	3.228
33	1.299	83	3.268
34	1.339	84	3.307
35	1.378	85	3.346
36	1.417	86	3.386
37	1.457	87	3.425
38	1.496	88	3.465
39	1.535	89	3.504
40	1.575	90	3.543
41	1.614	91	3.583
42	1.654	92	3.622
42	1.693	93	
			3.661
44	1.732	94	3.701
45	1.772	95	3.740
46	1.811	96	3.780
47	1.850	97	3.819
48	1.890	98	3.858
49	1.929	99	3.898
50	1.969	100	3.937

QUICK REFERENCE CHART G35 COUPE

QUICK REFERENCE CHART G35 COUPE ENGINE TUNE-UP DATA (VQ35DE)

Engine model			VQ35DE			
Firing order		1-2-3-4-5-6				
Idle speed M/T, A/T (In "N" position) rpm		650±50				
Ignition timing (BTDC at idle speed)			15°±5°			
CO% at idle			0	.7 - 9.9 % and e	engine runs smoothly	у
	Deflection adj	ustment	Unit: mm (in)	Tension adjustment		Unit: N(kg, Ib)
Drive Belt		Used belt	New belt	Us	ed belt	
	Limit	After adjustment	New Deit	Limit	After adjustment	New belt
Alternator, power steer- ing oil pump and fan belt	7 (0.28)	4 - 5 (0.16 - 0.20)	3.5 - 4.5 (0.138 - 0.177)	294 (30, 66)	730 - 818 (74.5 - 83.5, 164 - 184)	838 - 926 (85.5 - 94.5, 188 - 208)
Air conditioner compres- sor belt	12 (0.47)	9 - 10 (0.35 - 0.39)	8 - 9 (0.31- 0.35)	196 (20, 44)	348 - 436 (35.5 - 44.5, 78 - 98)	470 - 559 (48 - 57, 106 - 126)
Applied pushing force		98 (10, 22)	/ / / /			
Radiater cap relief pressu	Radiater cap relief pressure kPa (kg/cm ² , psi) Standard Limit		78 - 98 (0.8 - 1.0, 11 - 14)			
			59 (0.6, 9)			
Cooling system leakage t sure	esting pres-	kPa (kg/cm ² , psi)	157(1.6, 23)		(1.6, 23)	
Compression pressure	Standard	kPa (kg/cm ² , psi)/rpm	n 1,275 (13.0, 185) /300			
	Minimum		981 (10.0, 142)/300			
Spark plug	Standard type		PLFR5A - 11			
(Platinum-tipped type)	Hot type			PLF	R4A - 11	
	Cold type		PLFR6A - 11			
	Gap (Nominal) mm(in)	1.1 (0.043)			

2003

ELS0003W

PFP:00000

QUICK REFERENCE CHART G35 COUPE

FRONT WHEEL ALIGNMENT (Unladen*)

ELS0003X

2003

Tire			17inch	18inch
Camber	Degree minute (Decimal degree)	Minimum	-1° 15′ (- 1.25°)	
		Nominal	– 0° 30′ (– 0.50°)
		Maximum	0° 15′ (0.25°)
		Left and right difference	45′ (0.75°)	
Caster	Degree minute (Decimal degree)	Minimum	$7^\circ~25^\prime$ (7.42°)	$7^\circ~15^\prime$ (7.25°)
		Nominal	8° 10′ (8.17°)	$8^\circ00^\prime$ (8.00°)
		Maximum	$8^\circ~55^\prime$ (8.92°)	$8^\circ~45^\prime$ (8.75°)
		Left and right difference	45′ (0.75°)	
Kingpin inclination	Degree minute (Decimal degree)	Minimum	4° 10′ (4.17°)	
		Nominal	4° 55′ (4.92°)	
		Maximum	5° 40′ (5.67°)	
Total toe-in	mm (in)	Minimum	0 (0)
Distance (A – B)		Nominal	1 (0	.04)
		Maximum	2 (0	.08)
Wheel turning angle (Full turn)	Inside	MInimum	35° 45′ (35.75°)
	Degree minute (Decimal degree)	Nominal	38° 45′ (38.75°)	
		Maximum	39° 45′ (39.75°)
	Outside	Neminal	30° 45′ (30.75°)	
	Degree minute (Decimal degree)	Nominal		

*: Fuel, engine coolant and engine oil full. Spare tire, jack, hand tools and mats in designated positions.

REAR WHEEL ALIGNMENT (Unladen*)

Camber Degree minute (Decimal degree) Minimum $-2^{\circ} 00' (-2.00^{\circ})$ $-1^{\circ} 30' (-1.50^{\circ})$ Nominal $-1^{\circ}00'(-1.00^{\circ})$ Maximum Total-in 0(0) Minimum mm (in) Distance (A – B) Nominal 2.8 (0.110) 5.6 (0.220) Maximum

*: Fuel, engine coolant and oil full. Spare tire, jack, hand tools and mats in designated positions.

BRAKE

ELS0003Z Unit : mm (in)

ELS0003Y

Front brake	Pad wear limit	2.0 (0.079)	
	Rotor repair limit	OPB27VA model : 28.4 (1.118), CLZ25VD model : 22.0 (0.866)	
Rear brake	Pad wear limit	2.0 (0.079)	
	Rotor repair limit	OPB13VB model : 20.2 (0.795), AD14VE model :14.0 (0.551)	
Pedal free height		M/T model : 154 - 164 (6.06 - 6.46), A/T model : 162 - 172 (6.38 - 6.7	
Pedal depressed height*		M/T model : More than 90 (3.54), A/T model : More than 95 (3.74)	

* : Under force of 490 N(50 kg, 110 lb) with engine running.

QUICK REFERENCE CHART G35 COUPE

REFILL CAPACITIES

ELS00040

UNIT		Liter	US measure	
Fuel tank		76	20 - 1/8 gal	
Coolant (With reservoir tan	k)	8.7	9 - 1/4 qt	
Drain and refill				
Engine	With oil filter change	4.7	5 qt	
Engine	Without oil filter change	4.4	4 - 5/8 qt	
	Dry engine (Overhaul)	5.4	5 - 3/4 qt	
Transmission	A/T	10.3	10 - 7/8 qt	
	M/T	2.9	3 - 1/8 qt	
Differential carrier		1.4	3 pt	
Power steering system		1.0	1 - 1/8 qt	
Air conditioning system	Compressor oil	0.18	6.0 fl oz	
	Refrigerant	0.55 kg	1.21 lb	