F. P. C.	QUICK REFERENCE INDEX	
Edition: February 2002	A GENERAL INFORMATION	Gl General Information
Revision: April 2004 Publication No. SM3E-1V35U9	B ENGINE	EM Engine Mechanical
r ubilication No. OMOL 170003	B ENGINE	LU Engine Lubrication System
		CO Engine Cooling System
		J ,
		FL Fuel System
		EX Exhaust System ACC Accelerator Control System
	C. TDANEMICCION/	
	C TRANSMISSION/ TRANSAXLE	CL Clutch MT Manual Transmission
	D. DDIVELINE/AVI E	
INFINITI®	D DRIVELINE/AXLE	PR Propeller Shaft
		RFD Rear Final Drive
G35		FAX Front Axle
U 33	E SUSPENSION	RAX Rear Axle
MODEL V35 SERIES	E SUSPENSION	FSU Front Suspension
		RSU Rear Suspension WT Road Wheels & Tires
	E DDAVEC	
	F BRAKES	BR Brake System
		PB Parking Brake System
	O OTEFRINO	BRC Brake Control System
	G STEERING	PS Power Steering System
	H RESTRAINTS	SB Seat Belts
		SRS Supplemental Restraint System (SRS)
	I BODY	BL Body, Lock & Security System
		GW Glasses, Window System & Mir- rors
		RF Roof
		El Exterior & Interior
		IP Instrument Panel
		SE Seat
	J AIR CONDITIONER	ATC Automatic Air Conditioner
	K ELECTRICAL	SC Starting & Charging System
		LT Lighting System
		DI Driver Information System
		WW Wiper, Washer & Horn
		BCS Body Control System
		LAN LAN System
		AV Audio, Visual, Navigation & Tele-
		phone System
		ACS Auto Cruise Control System
		PG Power Supply, Ground & Circuit Ele- ments
	L MAINTENANCE	MA Maintenance
	M INDEX	IDX Alphabetical Index
$ \ N \ F \ \ N \ \ T \ \ _{\otimes} $	· · · · · · · · · · · · · · · · · · ·	

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FOREWORD

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

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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PLEASE HELP MAKE THIS SERVICE MANUAL BETTER!

Your comments are important to INFINITI and will help us to improve our Service Manuals. Use this form to report any issues or comments you may have regarding our Service Manuals. Please print this form and type or write your comments below. Mail or fax to:

Nissan North America, Inc. Technical Service Information 39001 Sunrise Drive, P.O. Box 9200 Farmington Hills, MI USA 48331 FAX: (248) 488-3910

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? (circle your answer) NO If no, what page number(s)?_____Note: Please include a copy of each page, marked with your comments. 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: _____ _____ POSITION: _____ DEALER: _____ DEALER NO.: ____ ADDRESS: ___ _____ STATE/PROV./COUNTRY: _____ ZIP/POSTAL CODE: ____

INCH TO METRIC CONVERSION TABLE

(Rounded-off for automotive use)

(ITOGITACE OII	TOT AUTOTION	vc usc)	
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
.230	5.84	.740	18.80
.240	6.10	.750	19.05
.250	6.35	.760	19.30
.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
.530	13.46	5.000	127.00
.540	13.72	6.000	152.40
.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		
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METRIC TO INCH CONVERSION TABLE

(Rounded-off for automotive use)

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 18 .709 68 2.677 19 .748 69 2.717 20 .787 70	mm	inches	mm	inches
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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 43 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				3.346
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 43 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	36	1.417	86	3.386
39 1.535 89 3.504 40 1.575 90 3.543 41 1.614 91 3.583 42 1.654 92 3.622 43 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	37	1.457	87	3.425
40 1.575 90 3.543 41 1.614 91 3.583 42 1.654 92 3.622 43 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	38	1.496	88	3.465
41 1.614 91 3.583 42 1.654 92 3.622 43 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	39	1.535	89	3.504
41 1.614 91 3.583 42 1.654 92 3.622 43 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	40	1.575	90	3.543
42 1.654 92 3.622 43 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	41		91	
43 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	42		92	
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				
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				
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47 1.850 97 3.819 48 1.890 98 3.858 49 1.929 99 3.898				
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49 1.929 99 3.898				
1.709 100 3.937				
		1.703	100	3.731

QUICK REFERENCE CHART G35

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

PFP:00000

ELS0003W

Engine model		VQ35DE				
Firing order			1-2-3-4-5-6			
Idle speed rpm A/T (In "N" position) M/T		650±50				
Ignition timing (BTDC at idle speed)				1:	5°±5°	
CO% at idle			0.7	7 - 9.9 % and e	engine runs smoothl	у
	Deflection adj	ustment	Unit: mm (in)	Tension adjus	stment	Unit: N(kg, lb)
Drive Belt		Used belt	NI II4	U	sed belt	Niano la alt
	Limit	After adjustment	New belt	Limit	After adjustment	New belt
Alternator, power steering 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 compressor 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 N (10 kg, 22 lb)			_	
Radiater cap relief pressure	е	kPa (kg/cm² , psi)				
	Standard		78 - 98 (0.8 - 1.0, 11 - 14)			
	Limit		59 (0.6, 9)			
Cooling system leakage te	sting pressure	kPa (kg/cm², psi)	157(1.6, 23)			
Compression pressure	Standard	kPa (kg/cm ² , psi)/rpm		1,275 (13	3.0, 185) /300	
	Minimum			981 (10.	.0, 142)/300	
	Make		NGK			
	Standard type	•	PLFR5A - 11			
Spark plug (Platinum-tipped type)	Hot type		PLFR4A - 11			
(Cold type			PLFI	R6A - 11	
	Gap (Nomina	l) mm(in)	1.1 (0.043)			

^{*:} Alternator and power steering oil pump for M/T models

FRONT WHEEL ALIGNMENT (Unladen*)

ELS0003X

Camber	Degree minute (Decimal degree)	Minimum	$-0^{\circ}50'(-0.83^{\circ})$
		Nominal	- 0° 05′ (- 0.08°)
		Maximum	0° 40′ (0.67°)
		Left and right difference	45′ (0.75°)
Caster	Degree minute (Decimal degree)	Minimum	7° 00′ (7.00°)
		Nominal	7° 45′ (7.75°)
		Maximum	8° 30′ (8.50°)
		Left and right difference	45′ (0.75°)
Kingpin inclination	Degree minute (Decimal degree)	Minimum	3° 45′ (3.75°)
		Nominal	4° 30′ (4.50°)
		Maximum	5° 15′ (5.25°)
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	37° 30′ (37.5°)
	Degree minute (Decimal degree)	Nominal	$40^{\circ}30'$ (40.5°)
		Maximum	41° 30′ (41.5°)
	Outside	Nominal	220 20/ / 22 50 \
	Degree minute (Decimal degree)	INUITIIIII	32° 30′ (32.5°)

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

REAR WHEEL ALIGNMENT (Unladen*)

ELS0003Y

Camber	Degree minute (Decimal degree)	Minimum	- 1° 05′ (- 1.08°)
		Nominal	- 0° 35′ (- 0.58°)
		Maximum	-0° 05′ (- 0.08°)
Total-in	mm (in)	Minimum	0(0)
Distance (A-B)		Nominal	2.7 (0.11)
		Maximum	5.4 (0.21)

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

BRAKE

ELS0003Z

Unit: mm (in)

Front brake	Pad wear limit		2.0 (0.079)
	Rotor repair limit		22.0 (0.866)
Rear brake	Pad wear limit		2.0 (0.079)
	Rotor repair limit		14.0 (0.551)
Dadalfaa ba		M/T model	154 - 164 (6.06 - 6.46)
Pedal free he	eignt	A/T model	162 - 172 (6.38 - 6.77)
De del despre		M/T model	More than 90 (3.54)
Pedal depres	ssed neight	A/T model	More than 95 (3.74)

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

REFILL CAPACITIES

ELS00040

UNIT Fuel tank		Liter	US measure
		76	20 gal
Coolant (Mith recomment touls)	A/T	8.5	9 qt
Coolant (With reservoir tank)	M/T	8.7	9 - 1/4 qt
	Drain and refill		
Facina	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
Tananasiasias	A/T	10.3	10 - 7/8 qt
Transmission	M/T	2.9	3 - 1/4 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