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QUICK REFERENCE INDEX

 **INFINITI**[®]
G35 Coupe
 MODEL V35 SERIES



INFINITI[®]
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A GENERAL INFORMATION	GI General Information	
B ENGINE	EM Engine Mechanical	
	LU Engine Lubrication System	
	CO Engine Cooling System	
	EC Engine Control System	
	FL Fuel System	
	EX Exhaust System	
	ACC Accelerator Control System	
	CL Clutch	
C TRANSMISSION/ TRANSAXLE	MT Manual Transmission	
	AT Automatic Transmission	
	PR Propeller Shaft	
D DRIVELINE/AXLE	RFD Rear Final Drive	
	FAX Front Axle	
	RAX Rear Axle	
	FSU Front Suspension	
E SUSPENSION	RSU Rear Suspension	
	WT Road Wheels & Tires	
	BR Brake System	
F BRAKES	PB Parking Brake System	
	BRC Brake Control System	
	PS Power Steering System	
G STEERING	STC Steering Control System	
	SB Seat Belts	
H RESTRAINTS	SRS Supplemental Restraint System (SRS)	
	BL Body, Lock & Security System	
I BODY	GW Glasses, Window System & Mirrors	
	RF Roof	
	EI Exterior & Interior	
	IP Instrument Panel	
	SE Seat	
	ATC Automatic Air Conditioner	
	J 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 & Telephone System	
	ACS Auto Cruise Control System	
	PG Power Supply, Ground & Circuit Elements	
	L MAINTENANCE	MA Maintenance
	M INDEX	IDX Alphabetical Index

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FOREWORD

This manual contains maintenance and repair procedure for the 2005 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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PLEASE HELP MAKE THIS SERVICE MANUAL BETTER!

INFINITI®

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) YES 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

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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: _____

CITY: _____ STATE/PROV./COUNTRY: _____ ZIP/POSTAL CODE: _____

INCH TO METRIC CONVERSION TABLE

(Rounded-off for automotive use)

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		

METRIC TO INCH CONVERSION TABLE

(Rounded-off for automotive use)

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
18	.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	1.181	80	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
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
50	1.969	100	3.937

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2005

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PFP:00000

ENGINE TUNE-UP DATA (VQ35DE)

ELS0003W

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 engine runs smoothly				
Drive Belt	Deflection adjustment		Unit: mm (in)	Tension adjustment		Unit: N(kg, lb)
	Used belt		New belt	Used belt		New belt
	Limit	After adjustment		Limit	After adjustment	
Alternator and power steering oil pump 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)
A/C 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 (10, 22)			—		
Radiator cap relief pressure		kPa (kg/cm ² , psi)		78 - 98 (0.8 - 1.0, 11 - 14)		
		Standard				
Cooling system leakage testing pressure		kPa (kg/cm ² , psi)		157(1.6, 23)		
		Limit				
Compression pressure		kPa (kg/cm ² , psi)/rpm		1,275 (13.0, 185) /300		
		Standard				
Spark plug (Platinum-tipped type)		Standard type		PLFR5A - 11		
		Hot type		PLFR4A - 11		
Gap (Nominal)		Cold type		PLFR6A - 11		
		mm(in)		1.1 (0.043)		

FRONT WHEEL ALIGNMENT (Unladen*)

ELS0003X

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° 25' (7.42°)	7° 15' (7.25°)
		Nominal	8° 10' (8.17°)	8° 00' (8.00°)
		Maximum	8° 55' (8.92°)	8° 45' (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 Distance (A – B)	mm (in)	Minimum	0 (0)	
		Nominal	1 (0.04)	
		Maximum	2 (0.08)	
Wheel turning angle (Full turn)	Inside Degree minute (Decimal degree)	Minimum	35° 45' (35.75°)	
		Nominal	38° 45' (38.75°)	
		Maximum	39° 45' (39.75°)	
	Outside Degree minute (Decimal degree)	Nominal	30° 45' (30.75°)	

* : 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° 45' (- 1.75°)
		Nominal	- 1° 15' (- 1.25°)
		Maximum	- 0° 45' (- 0.75°)
Total-in Distance (A – B)	mm (in)	Minimum	0 (0)
		Nominal	2.8 (0.110)
		Maximum	5.6 (0.220)

* : 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	26.0 (1.024)
Rear brake	Pad wear limit	2.0 (0.079)
	Rotor repair limit	14.0 (0.551)
Pedal free height		M/T model : 154 - 164 (6.06 - 6.46), A/T model : 162 - 172 (6.38 - 6.77)
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.

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REFILL CAPACITIES

ELS00040

UNIT		Liter	US measure
Fuel tank		76	20 gal
Coolant (With reservoir tank at "MAX" level)		8.7	9 - 1/4 qt
Engine oil	Drain and refill		
	With oil filter change	4.7	5 qt
	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