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**G35**

MODEL V35 SERIES



**INFINITI**

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**QUICK REFERENCE INDEX**

<b>A GENERAL INFORMATION</b>	GI General Information	
<b>B ENGINE</b>	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	
<b>C TRANSMISSION/ TRANSAXLE</b>	CL Clutch	
	MT Manual Transmission	
	AT Automatic Transmission	
<b>D DRIVELINE/AXLE</b>	PR Propeller Shaft	
	RFD Rear Final Drive	
	FAX Front Axle	
	RAX Rear Axle	
	<b>E SUSPENSION</b>	FSU Front Suspension
RSU Rear Suspension		
WT Road Wheels & Tires		
<b>F BRAKES</b>		BR Brake System
	PB Parking Brake System	
	BRC Brake Control System	
<b>G STEERING</b>	PS Power Steering System	
<b>H RESTRAINTS</b>	SB Seat Belts	
	SRS Supplemental Restraint System (SRS)	
<b>I BODY</b>	BL Body, Lock & Security System	
	GW Glasses, Window System & Mirrors	
	RF Roof	
	EI Exterior & Interior	
	IP Instrument Panel	
	SE Seat	
	ATC Automatic Air Conditioner	
<b>J AIR CONDITIONER</b>	SC Starting & Charging System	
	LT Lighting System	
<b>K ELECTRICAL</b>	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	
	<b>L MAINTENANCE</b>	MA Maintenance
		<b>M INDEX</b>

**A**  
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# FOREWORD

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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.

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## 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.



NISSAN MOTOR CO., LTD.

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

PF0:00000

ELS0003W

Engine model		VQ35DE				
Firing order		1-2-3-4-5-6				
Idle speed A/T (In "N" position) M/T	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, 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 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 N (10 kg, 22 lb)			—		
Radiator cap relief pressure		kPa (kg/cm <sup>2</sup> , psi)		78 - 98 (0.8 - 1.0, 11 - 14)		
Standard						
Limit		59 (0.6, 9)				
Cooling system leakage testing pressure	kPa (kg/cm <sup>2</sup> , psi)	157(1.6, 23)				
Compression pressure		kPa (kg/cm <sup>2</sup> , psi)/rpm		1,275 (13.0, 185) /300		
Standard						
Minimum		981 (10.0, 142)/300				
Make		NGK				
Standard type		PLFR5A - 11				
Hot type		PLFR4A - 11				
Cold type		PLFR6A - 11				
Gap (Nominal)		mm(in)	1.1 ( 0.043 )			

\*: Alternator and power steering oil pump for M/T models

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