

Edition: August 2005  
 Revision: August 2006  
 Publication No. SM6E-1V35U2

**QUICK REFERENCE INDEX**



**G35 Coupe**  
 MODEL V35 SERIES



**INFINITI**

© 2006 NISSAN MOTOR CO.,LTD.

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

**A**  
**B**  
**C**  
**D**  
**E**  
**F**  
**G**  
**H**  
**I**  
**J**  
**K**  
**L**  
**M**

All rights reserved. No part of this Service Manual may be reproduced or stored in a retrieval system, or transmitted in any form, or by any means, electronic, mechanical, recording or otherwise, without the prior written permission of Nissan Motor Company Ltd., Tokyo, Japan.

# FOREWORD

---

This manual contains maintenance and repair procedure for the 2006 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.



NISSAN MOTOR CO., LTD.

# QUICK REFERENCE CHART G35 COUPE

**2006**

## QUICK REFERENCE CHART G35 COUPE

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 <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		1,270 (13.0, 184)/300		
		Standard				
		Minimum		980 (10.0, 142)/300		
Spark plug (Platinum-tipped type)		Standard type		PLFR5A-11		
		Hot type		PLFR4A-11		
		Cold type		PLFR6A-11		
		Gap (Nominal) mm (in)		1.1 (0.043)		

**FRONT WHEEL ALIGNMENT (Unladen\* )**

ELS0003X

Tire		17inch	18inch	19inch
Camber Degree minute (Decimal degree)	Minimum	-1°15' (-1.25°)		-1°10' (-1.17°)
	Nominal	-0°30' (-0.50°)		-0°25' (-0.42°)
	Maximum	0°15' (0.25°)		0°20' (0.33°)
	Left and right difference	45' (0.75°)		
Caster Degree minute (Decimal degree)	Minimum	7°25' (7.42°)	7°15' (7.25°)	7°20' (7.33°)
	Nominal	8°10' (8.17°)	8°00' (8.00°)	8°05' (8.08°)
	Maximum	8°55' (8.92°)	8°45' (8.75°)	8°50' (8.83°)
	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	Minimum	0 mm (0 in)	
		Nominal	1 mm (0.04 in)	
		Maximum	2 mm (0.08 in)	
	Angle (left wheel or right wheel) Degree minute (Decimal degree)	Minimum	0°00' (0.00°)	
		Nominal	0°02'30" (0.04°)	
		Maximum	0°05' (0.08°)	
Wheel turning angle (Full turn)	Inner wheel Degree minute (Decimal degree)	Minimum	35°45' (35.8°)	
		Nominal	38°45' (38.8°)	
		Maximum	39°45' (39.8°)	
	Outer wheel Degree minute (Decimal degree)	Nominal	30°45' (30.8°)	

\* : Fuel, engine coolant and lubricant are full. Spare tire, jack, hand tools and mats are 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 toe-in	Distance	Minimum	0.1 mm (0.004 in)
		Nominal	2.8 mm (0.110 in)
		Maximum	5.5 mm (0.217 in)
	Angle (left wheel or right wheel) Degree minute (Decimal degree)	Minimum	0°00' (0°)
		Nominal	0°07' (0.12°)
		Maximum	0°14' (0.23°)

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

**BRAKE**

ELS0003Z

Unit : mm ( in )

Front brake	Pad repair limit thickness	2.0 (0.079)
	Rotor repair limit thickness	26.0 (1.024)
Rear brake	Pad repair limit thickness	2.0 (0.079)
	Rotor repair limit thickness	14.0 (0.551)
Brake pedal free height	M/T model	153.2 - 163.2 (6.03 - 6.43)
	A/T model	161.5 - 171.5 (6.36 - 6.75)

# QUICK REFERENCE CHART G35 COUPE

2006

Brake pedal depressed height*	M/T model	More than 90 (3.54)
	A/T model	More than 95 (3.74)

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

## 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