Edition: August 2007	QUICK REFERENCE INDEX		
Revision: January 2008	A GENERAL INFORMATION	GI	General Information
Publication No. SM8E-1S35U1	B ENGINE	EM	Engine Mechanical
		LU	Engine Lubrication System
		CO	Engine Cooling System
		EC	Engine Control System
		FL	Fuel System
		EX	Exhaust System
		STR	Starting System
		ACC	Accelerator Control System
	C HYBRID		
	D TRANSMISSION & DRIVE-		
	LINE	TM	Transaxle & Transmission
		DLN	Driveline
		FAX	Front Axle
		RAX	Rear Axle
RUCCARI	E SUSPENSION	FSU	Front Suspension
NISSAN		RSU	Rear Suspension
ROGUE		WT	Road Wheels & Tires
MODEL S35 SERIES	F BRAKES	BR	Brake System
oble 555 GLRIES		PB	Parking Brake System
		BRC	Brake Control System
	G STEERING	ST	Steering System
		STC	Steering Control System
	H RESTRAINTS	SB	Seat Belt
		SR	SRS Airbag
		SRC	SRS Airbag Control System
	I VENTILATION, HEATER &	VTL	Ventilation System
	AIR CONDITIONER	HA	Heater & Air Conditioning System
		HAC	Heater & Air Conditioning Control System
	J BODY INTERIOR	INT	Interior
		IP	Instrument Panel
		SE	Seat
	K BODY EXTERIOR, DOORS, ROOF & VEHICLE SECURITY	DLK	Door & Lock
		SEC	Security Control System
		GW	Glass & Window System
		PWC	Power Window Control System
		RF	Roof
		EXT	Exterior
		BRM	Body Repair
	L DRIVER CONTROLS	MIR	Mirrors
		EXL	Exterior Lighting System
		INL	Interior Lighting System
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© 2008 NISSAN MOTOR CO.,LTD.		DEF	Defogger
		HRN	Horn
All rights reserved. No part	M ELECTRICAL & POWER	PWO	Power Outlet
of this Service Manual may	CONTROL	BCS	Body Control System
be reproduced or stored in a		LAN	LAN System
retrieval system, or transmit-		PCS	Power Control System
ted in any form, or by any		CHG	Charging System
means, electronic, mechani-		PG	Power Supply, Ground & Circuit Elements
	N DRIVER INFORMATION &	MWI	Meter, Warning Lamp & Indicator
cal, recording or otherwise, without the prior written per-	MULTIMEDIA	WCS	Warning Chime System
mission of Nissan Motor		AV	Audio Visual & Navigation System
Company Ltd., Tokyo, Japan.	O CRUISE CONTROL	AV	Audio, Visual & Navigation System
	P MAINTENANCE	MA	Maintenance

A

B

D

G

K

M

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FOREWORD

This manual contains maintenance and repair procedure for the 2008 NISSAN ROGUE.

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.

ELS0003W

QUICK REFERENCE CHART S35 ENGINE TUNE-UP DATA (QR25DE)

PFP:00000

Engine model		QR25DE	
Firing order		1 - 3 - 4 - 2	
Idle speed CVT (In "P" or "N" position	rpm n)	700 ± 50	
Ignition timing (BTDC at idle speed)		15° ± 5°	
CO% at idle		0.7 - 9.9 % and engine runs smoothly	
Tensions of drive belts		Auto adjustment by auto tensioner	
Radiator cap relief pressu	ure kPa (kg/cm² , psi)		
	Standard	78.4 - 98.0 (0.8 - 1.0, 11 - 14)	
	Limit	59 (0.6, 9)	
Cooling system leakage testing pressure kPa (kg/cm², psi)		157 (1.60, 22.8)	
Compression pressure	kPa (kg/cm² , psi)/rpm		
	Standard	1,412 (14.4, 204.7)/250	
	Minimum	1,216 (12.4, 176.3)/250	
	Differential limit between cylinders	100 (1.0, 14.5)/250	
Spark plug (Iridium-tipped type)	Make	NGK	
	Standard type	DILKAR6A-11	
	Gap (Nominal) mm (in)	1.1 (0.043)	

FRONT WHEEL ALIGNMENT

ELS0003X

Measurement wheel			LH	RH
Camber Degree minute (Decimal degree)		Minimum	-1° 00′ (-1.00°)	–1° 15′ (–1.25°)
		Nominal	-0° 15′ (-0.25°)	-0° 30′ (-0.50°)
		Maximum	0° 30′ (0.50°)	0° 15′ (0.25°)
		Left and right difference	0° 33′ (0.55°) or less	
Caster		Minimum	4° 55′ (4.92°)	
		Nominal	5° 40′ (5.67°)	
Degree minu	ite (Decimal degree)	Maximum	6° 25′ (6.42°)	
		Left and right difference	0° 36′ (0.60°) or less	
		Minimum	9° 45′ (6.75°)	
Kingpin inclination Degree minute (Decimal degree)		Nominal	10° 30′ (10.50°)	
		Maximum	11° 15′ (11.25°)	
		Minimum	In 1 mm (0.04 in)	
	Distance	Nominal	In 2 mm (0.08 in)	
Total toe-in -		Maximum	In 3 mm (0.12 in)	
	Angle (Left wheel or right wheel) Degree minute (Decimal degree)	Minimum	In 0° 02′ 30″ (0.04°)	
		Nominal	In 0° 05′ (0.08°)	
	= -3a.a (2.55a. 209100)	Maximum	In 0° 07′ 30″ (0.13°)	

Measure value under unladen* conditions.

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

REAR WHEEL ALIGNMENT

ELS0003Y

Camber Degree minute (Decimal degree)		Minimum	-1° 25′ (-1.42°)
		Nominal	-0° 55′ (-0.92°)
		Maximum	-0° 25′ (-0.42°)
		Minimum	0 mm (0 in)
	Distance	Nominal	In 2 mm (0.08 in)
		Maximum	In 4 mm (0.16 in)
	Angle (Left wheel or right wheel) Degree minute (Decimal degree)	Minimum	0° 00′ (0.00°)
		Nominal	In 0° 05′ (0.08°)
		Maximum	In 0° 10′ (0.17°)

Measure value under unladen* conditions.

BRAKE PEDAL

Unit: mm (in)

Depressed brake pedal height (H1)	183.7 - 193.7 (7.23 - 7.63)
Brake pedal reserve height (H2) [Depressing 490 N (50 kg, 110 lb) while turning the engine ON]	65 (2.56) or more

FRONT DISK BRAKE

Unit: mm (in)

Brake pad	Wear limit thickness	2.0 (0.079)
Disc rotor	Wear limit thickness	24.0 (0.945)

REAR DISK BRAKE

Unit: mm (in)

Brake pad	Wear limit thickness	1.5 (0.059)
Disc rotor	Wear limit thickness	14.0 (0.551)

REFILL CAPACITIES

ELS00040

UNIT Fuel tank			Liter 60	US measure 15-7/8 gal	
					Engine Coolant (With reservoir tank) at MAX level
	Drain and refill				
	With oil filter change		4.6	4-7/8 qt	
Engine oil	Without oil filter change		4.3	4-1/2 qt	
	Dry engine (Overhaul)		5.4	5-3/4 qt	
	CVT	2WD	Without fluid cooler	8.3	8-3/4 qt
Transavla			With fluid cooler	8.5	9 qt
Transaxle		AWD	Without fluid cooler	9.3	9-7/8 qt
			With fluid cooler	9.5	10 qt
Transfer			0.38	3/4 pt	
Final drive	Rear			0.55	5/8 pt
Air conditioning system	Compressor oil			0.15	5.03 fl oz
	Refrige	Refrigerant		0.50 kg	1.11 lb

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