Editions July 2000	QUICK REFERENCE INDEX			
Edition: July 2009 Revision: October 2009	A GENERAL INFORMATION	Gl	General Information	
Publication No. SM0E-1S35U1	B ENGINE	EM	Engine Mechanical	
		LU	Engine Lubrication System	
		CO	Engine Cooling System	
		EC	Engine Control System	Б
		FL	Fuel System	
		EX STR	Exhaust System Starting System	
		ACC		
	C HYBRID	AUU		
	D TRANSMISSION & DRIVE-			D
	LINE	ТМ	Transaxle & Transmission	
		DLN	Driveline	
		FAX	Front Axle	Ε
		RAX	Rear Axle	
NISSAN	E SUSPENSION	FSU	Front Suspension	
		RSU	Rear Suspension	
ROGUE		WT	Road Wheels & Tires	F
MODEL S35 SERIES	F BRAKES	BR	Brake System	
WODEL 535 SERIES		PB	Parking Brake System	G
		BRC	Brake Control System	
	G STEERING	ST	Steering System	
		STC	Steering Control System	Η
	H RESTRAINTS	SB	Seat Belt	
		SR	SRS Airbag	
		SRC	SRS Airbag Control System	
	I VENTILATION, HEATER & AIR CONDITIONER	VTL HA	Ventilation System Heater & Air Conditioning System	
		HAC	Heater & Air Conditioning System	
	J BODY INTERIOR	INT	Interior	
	• -•••	IP	Instrument Panel	
		SE	Seat	
	K BODY EXTERIOR,	DLK	Door & Lock	
	DOORS, ROOF & VEHICLE SECURITY	SEC	Security Control System	
	0200km	GW	Glass & Window System	
		PWC	Power Window Control System	
		RF	Roof	
		EXT	Exterior Redu Densir	
	L DRIVER CONTROLS	BRM MIR	Body Repair Mirrors	
	L DRIVER CONTROLS	EXL	Exterior Lighting System	Μ
		INL	Interior Lighting System	
@2000NICCAN MOTOR CO. LTD		WW	Wiper & Washer	
©2009NISSAN 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	
cal, recording or otherwise,	N DRIVER INFORMATION & MULTIMEDIA	MWI WCS	Meter, Warning Lamp & Indicator	
without the prior written per-	-		Warning Chime System	
mission of NISSAN MOTOR		AV	Audio, Visual & Navigation System	
CO., LTD.	O CRUISE CONTROL			
	P MAINTENANCE	MA	Maintenance	

FOREWORD

This manual contains maintenance and repair procedure for the 2010 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.

QUICK REFERENCE CHART S35

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

Engine model			QR25DE	
Firing order			1 - 3 - 4 - 2	
Idle speed CVT (In "P" or "N" position)	rpm	700 ± 50	
Ignition timing (BTDC at idle speed)			$10^{\circ} \pm 5^{\circ}$	
CO% at idle			0.7 - 9.9 % and engine runs smoothly	
Tensions of drive belts			Auto adjustment by auto tensioner	
Radiator cap relief pressur	е	kPa (kg/cm ² , psi)		
	Standard		78.4 - 98.0 (0.8 - 1.0, 11 - 14)	
	Limit		59 (0.6, 9)	
Cooling system leakage te	esting pressure	kPa (kg/cm ² , psi)	157 (1.60, 22.8)	
Compression pressure		kPa (kg/cm ² , psi)/rpm		
	Standard		1,412 (14.4, 204.7)/250	
	Minimum		1,216 (12.4, 176.3)/250	
	Differential limi	t between cylinders	100 (1.0, 14.5)/250	
	Make		NGK	
Spark plug (Iridium-tipped type)	Standard type		DILKAR6A-11	
(Gan (Nominal)	mm (in)	1 1 (0 0/3)	

mm (in)

1.1 (0.043)

FRONT WHEEL ALIGNMENT

Gap (Nominal)

Axle type			2۷	VD	4V	VD
Tire size			215/70R16	225/60R17	215/70R16	225/60R17
	Minimum	Left side	-1° 00′ (-1.00°)			
	Minimum	Right side	-1° 15′ (-1.25°)			
	Nominal	Left side		-0° 15′ (-0.25°)		
Camber Degree minute (Decimal degree)	nominai	Right side		-0° 30′ (-0.50°)		
	Movimum	Left side	0° 30′ (0.50°)			
	Maximum	Right side	0° 15′ (0.25°)			
	Left and right difference		0° 33′ (0.55°) or less			
	Minimum		3° 55′ (3.92°) 4° 00′ (4.00°)			
Caster	Nominal		4° 40′ (4.67°)		4° 45′ (4.75°)	
Degree minute (Decimal degree)	Maximum		5° 25′ (5.41°)		5° 30′ (5.50°)	
	Left and right difference		0° 36′ (0.60°) or less			
Kingpin inclination Degree minute (Decimal degree)	Minimum		9° 45′ (9.75°)			
	Nominal		10° 30′ (10.50°)			
	Maximum	Maximum		11° 15′ (11.25°)		

PFP:00000

QUICK REFERENCE CHART S35

Axle type		2WD 4W		VD			
Tire size			215/70R16	225/60R17	215/70R16	225/60R17	
		Minimum		In 1 mm	In 1 mm (0.04 in)		
	Total toe-in Distance	Nominal	In 2 mm (0.08 in)				
	Maximum	In 3 mm (0.12 in)					
TOE-IN	Toe-in Toe angle (left wheel or right wheel) Degree minute (Decimal de-	Minimum	In 0° 02′ 30″ (0.05°)				
		Nominal	In 0° 05′ (0.08°)				
	gree)	Maximum	ln 0° 07′ 30″ (0.12°)				

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

			-1° 25′ (-1.42°)	
Camber Degree mi	nute (Decimal degree)	Nominal	-0° 55′ (-0.92°)	
Dogroom		Maximum	-0° 25′ (-0.42°)	
		Minimum	0 mm (0 in)	
	Total toe-in Distance	Nominal	In 2 mm (0.08 in)	
Toe-in		Maximum	In 4 mm (0.16 in)	
106-111		Minimum	0° 00′ (0.00°)	
	Toe angle (Left wheel or right wheel) Degree minute (Decimal degree)	Nominal	In 0° 05′ (0.08°)	
		Maximum	In 0° 10′ (0.16°)	

Measure value under unladen* conditions.

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

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)

ELS0003Y

QUICK REFERENCE CHART S35

REFILL CAPACITIES

ELS00040

UNIT				Liter	US measure
Evel tenk		TYPE1	60	15-7/8 gal	
Fuel tank			TYPE2	65	17-1/8 gal
Engine Coolant (With res	ervoir tank)	at MAX le	vel	7.3	7-3/4 qt
	Drain an	d refill			
Engine oil			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
		2WD	Without fluid cooler	7.3	7-3/4 qt
Transaxle	сут		With fluid cooler	7.5	7-7/8 qt
Transaxie	CVI		Without fluid cooler	8.4	8-7/8 qt
		AWD	With fluid cooler	8.6	9-1/8 qt
Transfer				0.36	3/4 pt
Final drive			0.55	1-1/8 pt	
Air conditioning system	Compres	ssor oil		0.15	5.03 fl oz
	Refrigera	ant		0.50 kg	1.11 lb

2010