

Edition: July 2011
Revision: February 2013
Publication No. SM2E-1S35U1

QUICK REFERENCE INDEX

**NISSAN
ROGUE
MODEL S35 SERIES**

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
	STR Starting System
ACC Accelerator Control System	
C ELECTRIC POWER TRAIN	
D TRANSMISSION & DRIVELINE	
	TM Transaxle & Transmission
	DLN Driveline
	FAX Front Axle
	RAX Rear Axle
E SUSPENSION	FSU Front Suspension
	RSU Rear Suspension
	WT Road Wheels & Tires
F BRAKES	BR Brake System
	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 & AIR CONDITIONER	VTL Ventilation System
	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
	WW Wiper & Washer
	DEF Defogger
	HRN Horn
M ELECTRICAL & POWER CONTROL	PWO Power Outlet
	BCS Body Control System
	LAN LAN System
	PCS Power Control System
	CHG Charging System
	PG Power Supply, Ground & Circuit Elements
N DRIVER INFORMATION & MULTIMEDIA	MWI Meter, Warning Lamp & Indicator
	WCS Warning Chime System
	SN Sonar System
	AV Audio, Visual & Navigation System
O CRUISE CONTROL & DRIVER ASSISTANCE	CCS Cruise Control System
P MAINTENANCE	MA Maintenance

©2013 NISSAN MOTOR CO.,LTD.

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 CO., LTD.

A
B
D
E
F
G
H
I
J
K
L
M
N
O
P

FOREWORD

This manual contains maintenance and repair procedure for the 2012 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.



PLEASE HELP MAKE THIS SERVICE MANUAL BETTER!

Your comments are important to NISSAN 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) 488-3880

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

Please comment: _____

What information should be included in NISSAN 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: _____

**QUICK REFERENCE CHART ROGUE
ENGINE TUNE-UP DATA (QR25DE)**

Engine model		QR25DE
Firing order		1 - 3 - 4 - 2
Idle speed (In "P" or "N" position)	rpm	700 ± 50
Ignition timing (BTDC at idle speed) (In "P" or "N" position)		10° ± 5°
Tension of drive belt		Belt tension is not necessary, as it automatically adjusted by drive belt auto-tensioner.
Radiator cap relief pressure	kPa (kg/cm ² , psi)	
	Standard	78.4 - 98.0 (0.8 - 1.0, 11 - 14)
	Limit	59 (0.6, 9)
Cooling system leakage testing 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 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

Item		Standard					
Axle type		2WD			AWD		
Wheel size		16 inch	17 inch	18 inch	16 inch	17 inch	18 inch
Camber Degree minute (Decimal degree)	Minimum	Left side	-1° 00' (-1.00°)				
		Right side	-1° 15' (-1.25°)				
	Nominal	Left side	-0° 15' (-0.25°)				
		Right side	-0° 30' (-0.50°)				
	Maximum	Left side	0° 30' (0.50°)				
		Right side	0° 15' (0.25°)				
Left and right difference		0° 33' (0.55°) or less					
Caster Degree minute (Decimal degree)	Minimum	3° 55' (3.92°)	4° 00' (4.00°)				
	Nominal	4° 40' (4.67°)	4° 45' (4.75°)				
	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	11° 15' (11.25°)					
Toe-in	Total toe-in Distance	Minimum	0 mm (0.00 in)				
		Nominal	In 2 mm (In 0.08 in)				
		Maximum	In 4 mm (In 0.15 in)				
	Total toe-angle Degree minute (Decimal degree)	Minimum	0° 00' 00" (0.00°)				
		Nominal	In 0° 09' 36" (In 0.16°)				
		Maximum	In 0° 19' 48" (In 0.33°)				

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

Item		Standard	
Camber Degree minute (Decimal degree)	Minimum	-1° 25' (-1.42°)	
	Nominal	-0° 55' (-0.92°)	
	Maximum	-0° 25' (-0.42°)	
Toe-in	Total toe-in Distance	Minimum	0 mm (0 in)
		Nominal	In 2 mm (0.08 in)
		Maximum	In 4 mm (0.16 in)
	Total toe-angle Degree minute (Decimal degree)	Minimum	0° 00' (0.00°)
		Nominal	In 0° 09' 36" (In 0.16°)
		Maximum	In 0° 19' 48" (In 0.33°)

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)

Item	Standard
Brake pedal height	183.7 - 193.7 (7.23 - 7.63)
Clearance between stopper rubber and stop lamp switch and ASCD brake switch threaded end	0.10 - 1.96 (0.0039 - 0.0772)
Brake pedal play	3.0 - 11.0 (0.118 - 0.433)
Depressed brake pedal height [Depressing 490 N (50 kg, 110 lb) while turning the engine ON]	65 (2.56) or more

FRONT DISC BRAKE

Unit: mm (in)

Item	Limit	
Brake pad Wear limit thickness	2.0 (0.079)	
Disc rotor Wear limit thickness	24.0 (0.945)	
	Thickness variation (measured at 8 positions)	0.020 (0.0008)
	Runout limit (with it attached to the vehicle)	0.035 (0.0014)

REAR DISC BRAKE

Unit: mm (in)

Item	Limit	
Brake pad Wear limit thickness	1.5 (0.059)	
Disc rotor Wear limit thickness	14.0 (0.551)	
	Thickness variation (measured at 8 positions)	0.020 (0.0008)
	Runout limit (with it attached to the vehicle)	0.070 (0.0028)

REFILL CAPACITIES

UNIT			Liter	US measure
Fuel tank	Except for Mexico		60	15-7/8 gal
	For Mexico		65	17-1/8 gal
Engine Coolant (With reservoir tank) at MAX level			7.3	7-3/4 qt
Engine oil	Drain and refill			
	With oil filter change		4.8	5-1/8 qt
	Without oil filter change		4.5	4-3/4 qt
Dry engine (Overhaul)			5.4	5-3/4 qt
Transaxle	CVT	2WD Without fluid cooler	7.3	7-3/4 qt
		2WD With fluid cooler	7.5	7-7/8 qt
	AWD	Without fluid cooler	8.3	8-3/4 qt
		With fluid cooler	8.5	9 qt
Transfer			0.36	3/4 pt
Final drive			0.55	1-1/8 pt
Air conditioning system	Compressor oil		0.15	5.07 fl oz
	Refrigerant		0.50 kg	1.10 lb