	OUICK DECEDENCE INDEX		
Edition: November 2013	QUICK REFERENCE INDEX		
Revision: November 2013	A GENERAL INFORMATION	GI	General Information
Pub. No. SM14E00T32U0	B ENGINE	EM	Engine Mechanical
		LU	Engine Lubrication System
		СО	Engine Cooling System
		EC	Engine Control System
		FL	Fuel System
		EX	Exhaust System
		STR	Starting System
		ACC	Accelerator Control System
NISSAN	C HYBRID		
	D TRANSMISSION & DRIVE- LINE		
ROGUE	LINE	TM	Transaxle & Transmission
MODEL T32 SERIES		DLN	Driveline
WODEL 132 SERIES		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 &	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,	DLK	Door & Lock
	DOORS, ROOF & VEHICLE	SEC	Security Control System
	SECURITY	GW	Glass & Window System
		PWC	Power Window Control System
		RF	Roof
		EXT	Exterior
		BRM	Body Repair Manual
	L DRIVER CONTROLS	MIR	Mirrors
		EXL	Exterior Lighting System
		INL	Interior Lighting System
		WW	Wiper & Washer
		DEF	Defogger
		HRN	Horn
	M ELECTRICAL & POWER	PWO	Power Outlet
	CONTROL	BCS	Body Control System
All rights reserved. No part		LAN	LAN System
of this Service Manual may		PCS	Power Control System
•		CHG	Charging System
be reproduced or stored in a		PG	Power Supply, Ground & Circuit Elements
retrieval system, or transmit-	N DRIVER INFORMATION &	MWI	Meter, Warning Lamp & Indicator
ted in any form, or by any	MULTIMEDIA	WCS	Warning Chime System
means, electronic, mechani-		AV	Audio, Visual & Navigation System
cal, photo-copying, record-	O CRUISE CONTROL	CCS	Cruise Control System
· · · · ·	O CRUISE CONTROL		
ing or otherwise, without the		DAS	Driver Assistance System
prior written permission of	P MAINTENANCE	DMS	Drive Mode System Maintenance
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P MAINTENANCE

Nissan North America, Inc.

MA

FOREWORD

This manual contains maintenance and repair procedure for the 2014 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.





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 MANUA	AL: Model:	Year:					
PUBLICATION NO	O. (Refer to Quick Reference Index	x):					
Please describe any Service Manual issues or problems in detail:							
Page number(s) _	Note: Please in	nclude a copy of each page, marked with	your comments.				
		easy to use? (circle your answer)	YES NO				
Please describe th	ne issue or problem in detail:						
_	on of the manual clear and easy to	, ,	YES NO				
What information		Service Manuals to better support you	ı in servicing o				
DATE:	YOUR NAME:	POSITION: _	-				
DEALER:	DEALER NO.:	ADDRESS:					
CITY:	STATE/PROV./COU	NTRY: ZIP/POSTAL CO	DDE:				

QUICK REFERENCE CHART: ROGUE

Engine Tune-up Data

INFOID:0000000010435980

GENERAL SPECIFICATIONS

Cylinder arrangement		In-line 4
Displacement	cm ³ (cu in)	2,488 (151.82)
Bore and stroke	mm (in)	89.0 x 100.0 (3.504 x 3.940)
Valve arrangement		DOHC
Firing order		1-3-4-2
No make a state of minutes	Compression	2
Number of piston rings	Oil	1
Compression ratio		9.6
0	Standard	1,412 (14.4, 204.7)
Compression pressure kPa (kg/cm², psi)/250 rpm	Minimum	1,216 (12.4, 176.3)
κι α (κ α /οπ , ροι <i>μ</i> 200 τρπ	Differential limit between cylinders	100 (1.0, 14.5)

Unit: degree

Valve timing : Intake valve = : Exhaust valve PBIC5304E d f b 12 (-28) 64 (24) **Except for California** 220 232 10 30 ABDC ATDC 8 (-32) 64 (24) 8 For California 224 236 36 ATDC ABDC

Drive belt (NFOID:000000010435979

DRIVE BELT

Tension of drive belt	Belt tension is not necessary, as it is automatically adjusted by drive belt auto-tensioner.
Spark Plug	INFOID:000000010435978

SPARK PLUG

Unit: mm (in)

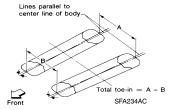
Make	DENSO
Standard type	FXE20HE11C
Spark plug gap (Nominal)	1.1 (0.043)

^{():} Valve timing control "ON"

Front Wheel Alignment (Unladen*1)

INFOID:0000000010435977

Axle type		F'	WD	AWD	
Body type		2 ROW 3 ROW		2 ROW	3 ROW
	Minimum	-1° 04′ (-1.07°)	-1° 20′ (-1.33°)	-1° 05′ (-1.08°)	-1° 15′ (-1.25°)
Camber	Nominal	-0° 25′ (-0.42°)	-0° 35′ (-0.58°)	-0° 20′ (-0.33°)	-0° 30′ (-0.50°)
Degree minute (Decimal	Maximum	0° 14′ (0.23°)	-0° 10′ (0.17°)	0° 20′ (0.33°)	0° 15′ (0.25°)
degree)	(LH) and (RH) dif- ference		0° 35′ (0.58°) - –0°	35′ (–0.58°)	
	Minimum	5° 0′ (5.00°)		4° 50′ (4.83°)	4° 55′ (4.92°)
Caster	Nominal	5° 45′ (5.75°)		5° 35′ (5.58°)	5° 40′ (5.67°)
Degree minute (Decimal	Maximum	6° 30′ (6.50°)		6° 20′ (6.33°)	6° 25′ (6.42°)
degree)	(LH) and (RH) dif- ference	0° 35′ (-0.58°)0°		° 35′ (–0.58°)	
Kingpin inclination	Minimum	11° 05′ (11.08°)		10° 55′ (10.92°)	10° 50′ (10.83°)
Degree minute (Decimal	Nominal	11° 50′ (11.83°)		11° 40′ (11.67°)	11° 35′ (11.58°)
degree)	Maximium	12° 35′ (12.58°)		12° 25′ (12.42°)	12° 20′ (12.33°)



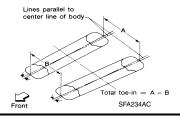
		Minimum	Out 0.9 mm (Out 0.04 in)	Out 0.8 mm (Out 0.01 in)	In 0.4 mm (In 0.02 in)	In 0.5 mm (In 0.02 in)
	Distance (A - B)	Nominal	In 0.1 mm (In 0.00 in)	In 0.2 mm (In 0.01 in)	In 1.4 mm (In 0.06 in)	In 1.5 mm (In 0.06 in)
Total toe-in	Maximum	In 1.1 mm (In 0.04 in)	In 1.2 mm (In 0.05 in)	In 2.4 mm (In 0.09 in)	In 2.5 mm (In 0.10 in)	
Angle (LH and RH)	Minimum	Out 0° 06' (Out 0.1°)	Out 0° 06' (Out 0.10°)	Out 0° 12' (Out 0.20°)		
	Degree minute (Decimal degree)	Nominal	In 0° 00′ (In 0.0°)	In 0° 01′ (In 0.01°)	In 0° 06′ (In 0.10°)	
		Maximum	In 0° 06′ (In 0.1°)	In 0° 07′ (In 0.12°)	In 0° 00′	(In 0.00°)

^{*1:} Fuel, engine coolant, and lubricants are full. Spare tire, jack, hand tools, and mats are in designated positions.

Rear Wheel Alignment (Unladen*1)

INFOID:0000000010435976

Drive Type		FWD	AWD
Camber Degree minute (Decimal degree)	Minimum	-0° 10′ (-0.17°)	0° 10′ (0.17°)
	Nominal	-0° 55′ (-0.92°)	-0° 35′ (-0.58°)
	Maximum	-1°'40' (-1.67°)	-1° 20′ (-1.33°)



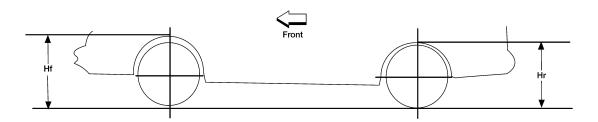
		Minimum	In 2 mm (In 0.08 in)	
	Distance (A - B)	Nominal	In 4 mm (In 0.12 in)	In 2.0 mm (0.08 in)
-		Maximum	In 6 mm (In 0.24in)	
Total toe-in Angle (LH and RH)*2 Degree minute (Decimal degree)	U ,	Minimum	In 0° 10′ (In 0.17°)	Out 0° 15' (Out 0.25°)
	Nominal	In 0° 20′ (In 0.33°)	In 0° 10′ (In 0.17°)	
	•	Maximum	In 0° 30′ (In 0.50°)	In 0° 35′ (In 0.58°)

^{*1:} Fuel, engine coolant, and lubricants are full. Spare tire, jack, hand tools, and mats are in designated positions.

Wheelarch Height (Unladen*)

INFOID:0000000010435975

Unit: mm (in)



LEIA0085E

Axle type	FWD		AWD			
Body type	2 R	OW	3 ROW	2 R	OW	3 ROW
Tire size	225/65R17	225/60R18	225/65R17 RF	225/65R17	225/60R18	225/65R17 RF
Front (Hf)	788 (31.02)	792 (31.18)	791 (31.14)	798 (31.42)	801 (31.54)	801 (31.54)
Rear (Hr)	787 (30.98)	789 (31.06)	787 (30.98)	796 (31.34)	798 (31.42)	796 (31.34)

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

Brake Specifications

INFOID:0000000010435974

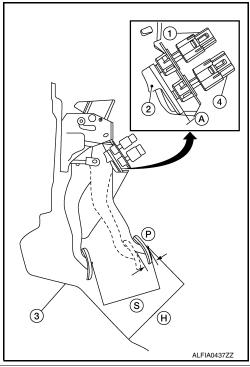
Unit: mm (in)

	Cylinder bore diameter	60.33 (2.375)	
Front disc brake (One piston caliper)	Pad length × width × thickness	123.6 × 46.5 × 11.0 (4.87 × 1.870 × 0.433)	
	Disc brake rotor outer diameter × thickness	296 × 26.0 (11.65 × 1.024)	
	Cylinder bore diameter	60.33 (2.375)	
Front disc brake (Two piston caliper)	Pad length × width × thickness	133.6 × 47.5 × 11.0 (5.26 × 1.909 × 0.433)	
	Disc brake rotor outer diameter × thickness	320 × 28.0 (12.60 × 1.102)	
	Cylinder bore diameter	38.1 (1.5)	
Rear disc brake	Pad length × width × thickness	83.0 × 31.9 × 8.5 (3.268 × 1.256 × 0.335)	
	Disc brake rotor outer diameter × thickness	292 × 16.0 (11.50 × 0.630)	
Master cylinder		23.8 (15/16)	
Control valve Valve type		Electric brake force distribution	

^{*2:} Since an adjustment mechanism is not included, the value of the left and right wheels must be used as the standard value.

Brake Pedal

Unit: mm (in)



Item	Standard
Brake pedal height (H)	175.9 – 185.9 (9.63 – 7.32)
Clearance (A) between brake pedal stopper bracket (2), stop lamp switch (4) and brake pedal position switch (1) contact ends	0.20 - 1.96 (0.0079 - 0.0772)
Brake pedal full stroke (S)	135.1 (5.32)
Brake pedal play	_

Front Disc Brake

Unit: mm (in)

Item		Limit	
Brake pad	Wear limit thickness	2.0 (0.079)	
	Wear limit thickness	24.0 (0.945)	
Disc brake rotor	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)
	Wear limit thickness	14.0 (0.551)
Disc brake rotor	Thickness variation (measured at 8 positions)	0.020 (0.0008)
	Runout limit (with it attached to the vehicle)	0.070 (0.0028)

Fluids and Lubricants

INFOID:0000000010435970

			Capacity (Approximate)	
		Liter	US measure	Imp measure
Fuel		55 <i>l</i>	14-1/2 gal	12-1/8 gal
Engine oil Drain and refill	With oil filter change	4.6 ℓ	4-7/8 qt	4 qt
	Without oil filter change	4.3 ℓ	4-1/2 qt	3-3/4 qt
Dry engine (Overhaul)		5.3 ℓ	5-5/8 qt	4-5/8 qt
Cooling system	With reservoir tank	7.3 ℓ	7-3/4 qt	6-3/8 qt
	Reservoir tank	0.75 ℓ	3/4 qt	5/8 qt
CVT fluid		7.9 ℓ	8-3/8 qt	7 qt
Differential gear oil		0.55 ℓ	1-1/8 pt	1 pt
Transfer oil		0.31 ℓ	5/8 pt	1/2 qt
Brake fluid		_	_	_
Multi-purpose grease		_	_	_
Windshield washer fluid		5.45 ℓ	5-3/4 qt	4-3/4 qt
Air conditioning system refrigerant		0.50 kg	1.10 lb	1.10 lb
Air conditioning system oil		110 m ℓ	3.7 fl oz	3.9 fl oz

Description	Capacity (Approximate)			
Description	Metric	US measure	Imp measure	
Air conditioning system refrigerant	0.83 ± 0.03 kg	1.83 ± 0.07 lb	1.83 ± 0.07 lb	
Air conditioning system oil	230 m ℓ	7.8 fl oz	8.1 fl oz	

FOR MEXICO: Fluids and Lubricants

INFOID:0000000009914741

		Capacity (Approximate)		
		Metric	US measure	Imp measure
Fuel		74.0 ℓ	19-1/2 gal	16-1/4 gal
	With oil filter change	4.8 ℓ	5-1/8 qt	4-1/4 qt
Engine oil Drain and refill	Without oil filter change	4.5 ℓ	4-3/4 qt	4 qt
Drain and rollin	Dry engine (engine overhaul)	5.1 ℓ	5-3/8 qt	4-1/2 qt
Cooling system (with reservoir at MAX line)		9.6 ℓ	10-1/8 qt	8-1/2 qt
CVT fluid		8.8 <i>l</i>	9-1/4 qt	7-3/4 qt
Differential gear oil		0.5 ℓ	1 pt	7/8 pt
Transfer fluid		0.31 ℓ	5/8 pt	1/2 pt
Power steering fluid		1.0 ℓ	2-1/8 qt	1-3/4 qt
Brake fluid		_	_	_
Multi-purpose grease		_	_	_
Windshield washer fluid		4.6 ℓ	4-7/8 qt	4 qt
Air conditioning system refrigerant		$0.83 \pm 0.03 \ kg$	1.83 ± 0.07 lb	$1.83 \pm 0.07 \; lb$
Air conditioning system oil		230 m ℓ	7.8 fl oz	8.1 fl oz