

Edition: August 2014  
Revision: August 2014  
Pub. No. SM15EA0T32U0

# NISSAN

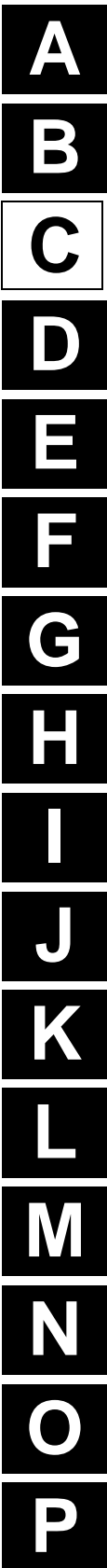
## ROGUE

### MODEL T32 SERIES

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	<b>BCS Body Control System</b>	
	<b>LAN LAN System</b>	
	<b>PCS Power Control System</b>	
	<b>CHG Charging System</b>	
<b>PG Power Supply, Ground &amp; Circuit Elements</b>		
<b>M ELECTRICAL &amp; POWER CONTROL</b>	<b>MWI Meter, Warning Lamp &amp; Indicator</b>	
	<b>WCS Warning Chime System</b>	
	<b>AV Audio, Visual &amp; Navigation System</b>	
<b>N DRIVER INFORMATION &amp; MULTIMEDIA</b>	<b>CCS Cruise Control System</b>	
	<b>DAS Driver Assistance System</b>	
	<b>DMS Drive Mode System</b>	
<b>O CRUISE CONTROL</b>	<b>MA Maintenance</b>	
<b>P MAINTENANCE</b>		

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# FOREWORD

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**This manual contains maintenance and repair procedure for the 2015 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

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**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 NORTH AMERICA, INC.**  
Technical Publications Department



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**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.*

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**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: \_\_\_\_\_

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**Is the organization of the manual clear and easy to follow? (circle your answer) YES NO**

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**What information should be included in NISSAN Service Manuals to better support you in servicing or repairing customer vehicles?**

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DATE: \_\_\_\_\_ YOUR NAME: \_\_\_\_\_ POSITION: \_\_\_\_\_

DEALER: \_\_\_\_\_ DEALER NO.: \_\_\_\_\_ ADDRESS: \_\_\_\_\_

CITY: \_\_\_\_\_ STATE/PROV./COUNTRY: \_\_\_\_\_ ZIP/POSTAL CODE: \_\_\_\_\_

QUICK REFERENCE CHART: ROGUE NAM

Engine Tune-up Data

INFOID:0000000011657440

GENERAL SPECIFICATIONS

Cylinder arrangement		In-line 4
Displacement	cm <sup>3</sup> (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
Number of piston rings	Compression	2
	Oil	1
Compression ratio		10.0
Compression pressure kPa (kg/cm <sup>2</sup> , psi)/250 rpm	Standard	1,412 (14.4, 204.7)
	Minimum	1,216 (12.4, 176.3)
	Differential limit between cylinders	100 (1.0, 14.5)

Unit: degree

Valve timing ⇐ : Intake valve ⇐ : Exhaust valve						
	a	b	c	d	e	f
	224	244	8 (-32) ATDC	64 (24) ABDC	8	36

( ) : Valve timing control "ON"

Drive belt

INFOID:0000000011657439

DRIVE BELT

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

INFOID:0000000011657438

SPARK PLUG

Unit: mm (in)

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

# QUICK REFERENCE CHART: ROGUE NAM

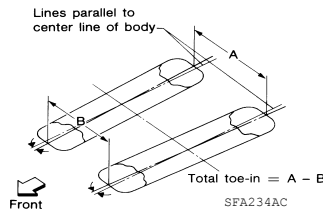
2015

## Front Wheel Alignment (Unladen\*1)

INFOID:000000011657437

### USA Production

Axle type		FWD			AWD	
		2 ROW		3 ROW	2 ROW	3 ROW
Body type						
Wheel diameter		17 inch	18 inch	17 inch	17 or 18 inch	17 inch
Camber Degree minute (Decimal degree)	Minimum	-1° 19' (-1.32°)			-1° 14' (-1.23°)	
	Nominal	-0° 34' (-0.57°)			-0° 29' (-0.48°)	
	Maximum	0° 11' (0.18°)			0° 16' (0.27°)	
	(LH) and (RH) difference	± 0° 35' (-0.58°)				
Caster Degree minute (Decimal degree)	Minimum	3° 42' (3.70°)	3° 43' (3.72°)	3° 46' (3.77°)	3° 39' (3.65°)	3° 41' (3.68°)
	Nominal	4° 27' (4.45°)	4° 28' (4.47°)	4° 31' (4.52°)	4° 24' (4.40°)	4° 26' (4.43°)
	Maximum	5° 12' (5.20°)	5° 13' (5.22°)	5° 16' (5.27°)	5° 09' (5.15°)	5° 11' (5.18°)
	(LH) and (RH) difference	± 0° 35' (-0.58°)				
Kingpin inclination Degree minute (Decimal degree)	Minimum	11° 05' (11.08°)			10° 55' (10.92°)	10° 50' (10.83°)
	Nominal	11° 50' (11.83°)			11° 40' (11.67°)	11° 35' (11.58°)
	Maximum	12° 35' (12.58°)			12° 25' (12.42°)	12° 20' (12.33°)



Total toe-in	Distance (A - B)	Minimum	In 2 mm (In 0.08 in)
		Nominal	In 3 mm (In 0.12 in)
		Maximum	In 4 mm (In 0.16 in)
	Angle (LH and RH) Degree minute (Decimal degree)	Minimum	In 0° 08' (In 0.13°)
		Nominal	In 0° 14' (In 0.23°)
		Maximum	In 0° 20' (In 0.33°)

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

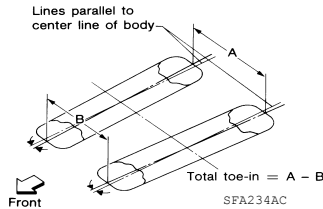
### Korea Production

Axle type		FWD	AWD
Camber Degree minute (Decimal degree)	Minimum	-1° 10' (-1.17°)	-1° 05' (-1.08°)
	Nominal	-0° 25' (-0.42°)	-0° 20' (-0.33°)
	Maximum	0° 20' (0.33°)	0° 25' (0.42°)
	(LH) and (RH) difference	0° 35' (0.58°) - -0° 35' (-0.58°)	

# QUICK REFERENCE CHART: ROGUE NAM

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Caster Degree minute (Decimal degree)	Minimum	5° 0' (5.00°)	4° 50' (4.83°)
	Nominal	5° 45' (5.75°)	5° 35' (5.58°)
	Maximum	6° 30' (6.50°)	6° 20' (6.33°)
	(LH) and (RH) difference	0° 35' (-0.58°) - -0° 35' (-0.58°)	
Kingpin inclination Degree minute (Decimal degree)	Minimum	11° 05' (11.08°)	10° 55' (10.92°)
	Nominal	11° 50' (11.83°)	11° 40' (11.67°)
	Maximum	12° 35' (12.58°)	12° 25' (12.42°)



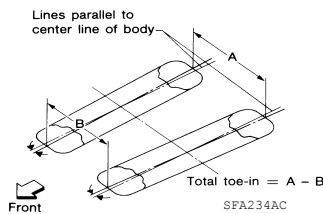
Total toe-in	Distance (A - B)	Minimum	Out 0.9 mm (Out 0.035 in)	In 0.4 mm (In 0.016 in)
		Nominal	In 0.1 mm (In 0.004 in)	In 1.4 mm (In 0.055 in)
		Maximum	In 1.1 mm (In 0.043 in)	In 2.4 mm (In 0.094 in)
	Angle (LH and RH) Degree minute (Decimal degree)	Minimum	Out 0° 06' (Out 0.10°)	In 0° 00' (In 0.00°)
		Nominal	In 0° 00' (In 0.00°)	In 0° 06' (In 0.10°)
		Maximum	In 0° 06' (In 0.10°)	In 0° 12' (In 0.20°)

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

## Rear Wheel Alignment (Unladen\*<sup>1</sup>)

INFOID:000000011657436

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



Total toe-in	Distance (A - B)	Minimum	In 0.0 mm (In 0.00 in)
		Nominal	In 4.0 mm (In 0.16 in)
		Maximum	In 8.0 mm (In 0.31 in)
	Angle (LH and RH) <sup>*2</sup> Degree minute (Decimal degree)	Minimum	In 0° 00' (In 0.00°)
		Nominal	In 0° 20' (In 0.33°)
		Maximum	In 0° 40' (In 0.67°)

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

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

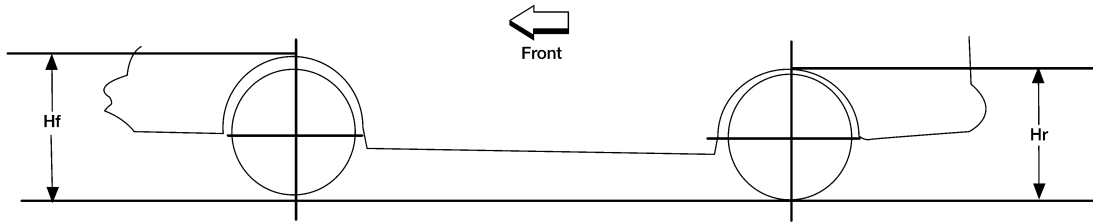
## Wheelarch Height (Unladen\*)

INFOID:000000011657435

# QUICK REFERENCE CHART: ROGUE NAM

2015

Unit: mm (in)



LEIA0085E

Axle type	FWD			AWD		
Body type	2 ROW		3 ROW	2 ROW		3 ROW
Tire size	225/65R17	225/60R18	225/65R17 RF	225/65R17	225/60R18	225/65R17 RF
Front (Hf)	788 (31.02)	790 (31.10)	790 (31.10)	797 (31.38)	799 (31.46)	800 (31.50)
Rear (Hr)	785 (30.91)	787 (30.98)	786 (30.94)	794 (31.26)	796 (31.34)	795 (31.30)

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

## Brake Specifications

INFOID:0000000011657434

Unit: mm (in)

Front disc brake (One piston caliper)	Cylinder bore diameter	60.33 (2.375)
	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)
Front disc brake (Two piston caliper)	Cylinder bore diameter	60.33 (2.375)
	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)
Rear disc brake	Cylinder bore diameter	38.1 (1.5)
	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	Cylinder bore diameter	23.8 (15/16)
Control valve	Valve type	Electric brake force distribution

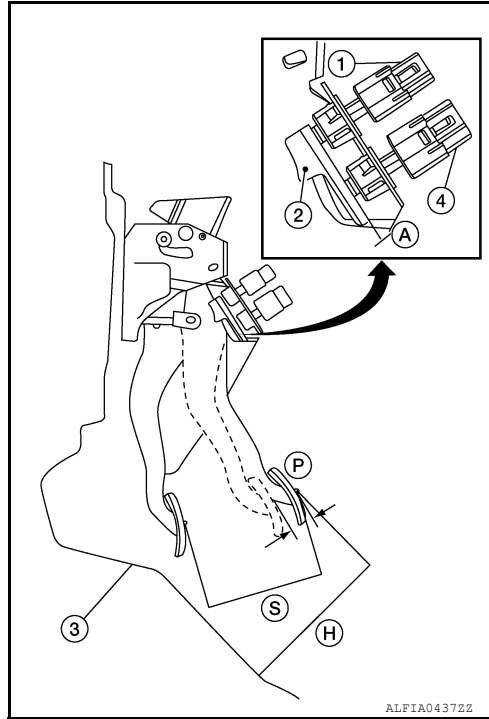
# QUICK REFERENCE CHART: ROGUE NAM

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## Brake Pedal

INFOID:000000011657433

Unit: mm (in)



Item	Standard
Brake pedal height (H)	175.9 – 185.9 (6.93 – 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

INFOID:000000011657432

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

INFOID:000000011657431

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:000000011657430

The following are approximate capacities. The actual capacities may be slightly different. When refilling, follow the procedures described elsewhere in this manual.



# QUICK REFERENCE CHART: ROGUE NAM

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		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 <i>ℓ</i>	4-7/8 qt	4 qt
	Without oil filter change	4.3 <i>ℓ</i>	4-1/2 qt	3-3/4 qt
Dry engine (Overhaul)		5.3 <i>ℓ</i>	5-5/8 qt	4-5/8 qt
Cooling system	With reservoir tank	8.1 <i>ℓ</i>	8-5/8 qt	7-1/8 qt
	Reservoir tank	0.61 <i>ℓ</i>	5/8 qt	1/2 qt
CVT fluid		7.9 <i>ℓ</i>	8-3/8 qt	7 qt
Differential gear oil		0.55 <i>ℓ</i>	1-1/8 pt	1 pt
Transfer oil		0.31 <i>ℓ</i>	5/8 pt	1/2 qt
Brake fluid		—	—	—
Multi-purpose grease		—	—	—
Windshield washer fluid		5.2 <i>ℓ</i>	5-1/2 qt	4-5/8 qt
Air conditioning system refrigerant		0.50 kg	1.10 lb	1.10 lb
Air conditioning system oil		110 m <i>ℓ</i>	3.7 fl oz	3.9 fl oz