Edition: May 2015	QUICK REFERENCE INDEX		
Revision: October 2015	A GENERAL INFORMATION	GI	General Information
Pub. No. SM16EA0A36U1	B ENGINE	EM	Engine Mechanical
PUD. NO. SINITUEAUASOUT		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
	C HYBRID	<u></u>	·
	D TRANSMISSION & DRIVE-	TM	Transaxle & Transmission
	LINE	FAX	Front Axle
		RAX	Rear Axle
	E SUSPENSION	FSU	Front Suspension
		RSU	Rear Suspension
		WT	Road Wheels & Tires
	F BRAKES	BR	Brake System
RUCEARI		PB	Parking Brake System
NISSAN		BRC	Brake Control System
BAA VIRAA	G STEERING	ST	Steering System
MAXIMA		STC	Steering Control System
too ceniee	H RESTRAINTS	SB	Seat Belt
MODEL A36 SERIES	•• ••===	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 System  Heater & Air Conditioning Control System
	J BODY INTERIOR	INT	Interior
	3 BODT INTERIOR	IP	Interior Instrument Panel
		SE	Seat
		ADP	Seat Automatic Drive Positioner
	K BODY EXTERIOR,	DLK	Door & Lock
	DOORS, ROOF & VEHICLE	SEC	Security Control System
	SECURITY	GW	Security Control System Glass & Window System
		PWC	Power Window Control System
		RF EXT	Roof Exterior
	· · · · · · · · · · · · · · · · · · ·	BRM	· .
	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
		LAN	LAN System
		PCS	Power Control System
		CHG	Charging System
		PG	Power Supply, Ground & Circuit Elements
All rights reserved. No part	N DRIVER INFORMATION &	MWI	Meter, Warning Lamp & Indicator
of this Service Manual may	MULTIMEDIA	WCS	Warning Chime System
be reproduced or stored in a		SN	Sonar System
		AV	Audio, Visual & Navigation System
retrieval system, or transmit-	O CRUISE CONTROL	CCS	Cruise Control System
ted in any form, or by any		DAS	Driver Assistance System
means, electronic, mechani-		DMS	Drive Mode System
cal, photo-copying, record-	P MAINTENANCE	MA	Maintenance
ing or otherwise, without the		IDX	Alphabetical Index
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Nissan North America, Inc.

# **FOREWORD**

This manual contains maintenance and repair procedures for the 2016 NISSAN Maxima.

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 MANU	AL: Model:	Year:		
PUBLICATION N	IO. (Refer to Quick Reference Index):			
Please describe any Service Manual issues or problems in detail:				
Page number(s)	Note: Please inclu	ude a copy of each page	e, marked with your comments.	
If no, what page r	diagnosis procedures logical and eas	clude a copy of each pag	ge, marked with your comments.	
	the issue or problem in detail:			
Is the organizati	ion of the manual clear and easy to f	ollow? (circle your ans	swer) YES NO	
Please comment	:			
What informatio repairing custor	on should be included in NISSAN Ser mer vehicles?	vice Manuals to bette	r support you in servicing or	
	YOUR NAME:			
	DEALER NO.:			
CITY:	STATE/PROV./COUNT	RY: ZI	P/POSTAL CODE:	

# QUICK REFERENCE CHART: MAXIMA

# Engine Tune-up Data

#### INFOID:0000000012544550

# **GENERAL SPECIFICATIONS**

Cylinder arrangemen	nt			V	/-6
Displacement cm <sup>3</sup>	(cu in)			3,498 (	(213.45)
Bore and stroke mm (in)			95.5 x 81.4 (3.760 x 3.205)		
Valve arrangement		DOHC			HC
Firing order				1-2-3	3-4-5-6
Number of piston ring	20	Compression		2	
Number of pistori fing	ys	Oil			1
Number of main bear	rings				4
Compression ratio				10	.6:1
Compression pressu	ro	Standard		1,275 (1	13.0, 185)
kPa (kg/cm <sup>2</sup> , psi)/300		Minimum		981 (10	0.0, 142)
	- r	Differential limit betw	tween cylinders 98 (1.0, 14)		
Cylinder number		FRONT SEM713A			
Valve timing (Valve timing control	- "OFF")	TDC ANOWO AND			
					Unit: degree
a	b	С	d	е	f
256	240	-10	70	8	68

INFOID:0000000012544551

### **DRIVE BELT**

Tanaian of drive halt	Drive belt tension is not personally as it is automatically adjusted by drive belt auto tensioner
lension of drive belt	Drive belt tension is not necessary, as it is automatically adjusted by drive belt auto-tensioner.

INFOID:0000000012544552

### SPARK PLUG

Unit: mm (in)

Make		DENSO	
Standard type*		FXE22HR11	
	Standard	1.1 (0.043)	
Gap	Limit	1.35 (0.53) (for USA and Canada) 1.25 (0.49) (for Mexico)	

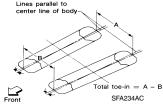
<sup>\*:</sup> Always check with the Parts Department for the latest parts information.

# Front Wheel Alignment (Unladen\*)

INFOID:0000000012544547

### **UNITED STATES & CANADA**

Tire size		P245/45R18	P245/40R19
	Minimum	-1° 08' (-	1.14°)
Camber	Nominal	-0° 23' (-0.39°)	
Degree minute (Decimal degree)	Maximum	0° 22' (0	.36°)
	(LH) and (RH) difference	0° 00' ± 0° 33' (0.00°± 0.55°)	
	Minimum	4° 05' (4.08°)	4°10' (4.16°)
Caster	Nominal	4°50' (4.83°)	4°55' (4.91°)
Degree minute (Decimal degree)	Maximum	5°35' (5.58°)	5° 40' (5.66°)
	(LH) and (RH) difference	0° 00' ± 0°30' (0.00°± 0.50°)	
Kingpin inclination Degree minute (Decimal degree)		14° 25' (14.42°)	



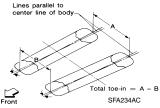
		Minimum	Out 1.2 mm (Out 0.047 in)
	Distance (A - B)	Nominal	In 0.8 mm (In 0.031 in)
Total too in	Angle (LH and RH) Degree minute (Decimal degree)	Maximum	In 2.8 mm (In 0.110 in)
rotar toe-in		Minimum	Out 0° 07′ (Out 0.11°)
		Nominal	In 0° 04′ (In 0.07°)
		Maximum	In 0° 15′ (In 0.25°)

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

#### **MEXICO**

	Minimum	-1° 01' (-1.01°)
Camber	Nominal	-0° 16' (-0.26°)
Degree minute (Decimal degree)	Maximum	0° 29' (0.49°)
	(LH) and (RH) difference	0°00' ± 0°33' (0.00°± 0.55°)

	Minimum	3° 45′ (3.75°)	
Caster	Nominal	4° 30′ (4.50°)	
Degree minute (Decimal degree)	Maximum	5° 15' (5.25°)	
	(LH) and (RH) difference	0° 00' ± 0° 30' (0.00°± 0.50°)	
Kingpin inclination Degree minute (Decimal degree)		14° 10' (14.17°)	



	Distance (A - B)	Minimum	Out 0.9 mm (Out 0.035 in)
		Nominal	In 1.1 mm (In 0.043 in)
Total toe-in		Maximum	In 3.1 mm (In 0.122 in)
iotai toe-iii	Angle (LH and RH)	Minimum	Out 0° 05' (Out 0.09°)
	Degree minute (Decimal degree)	Nominal	In 0° 05′ (In 0.09°)
		Maximum	In 0° 16′ (In 0.27°)

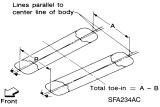
<sup>\*:</sup> Fuel, engine coolant, and lubricants are full. Spare tire, jack, hand tools, and mats are in designated positions.

# Rear Wheel Alignment (Unladen\*1)

INFOID:0000000012544553

### **UNITED STATES & CANADA**

Tire size		P245/45R18	P245/40R19
	Minimum	-1° 08′ (-1.13°)	-1° 16′ (-1.27°)
Camber Degree minute (Decimal degree)	Nominal	-0° 23′ (-0.38°)	-0° 31′ (-0.52°)
	Maximum	0° 22′ (0.37°)	0° 14′ (0.23°)

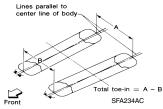


Total toe-in		Minimum	In 0.1 mm (In 0.01 in)	In 0.6 mm (In 0.02 in)
	Distance (A - B)	Nominal	In 2.6 mm (In 0.10 in)	In 3.1 mm (In 0.12 in)
		Maximum	In 5.1 mm (In 0.20 in)	In 5.6 mm (In 0.22 in)
	Angle (LH and RH) Degree minute	Minimum	In 0° 01′ (In 0.02°)	In 0° 04′ (In 0.06°)
		Nominal	In 0° 13′ (In 0.22°)	In 0° 16′ (In 0.26°)
	(Decimal degree)	Maximum	In 0° 25′ (In 0.42°)	In 0° 28′ (In 0.46°)

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

### **MEXICO**

Tire size		P245/45R18	P245/40R19
Camber Degree minute (Decimal degree)	Minimum	-0° 17′ (-0.29°)	
	Nominal	0° 27′ (0.46°)	
	Maximum	1° 12′ (1.21°)	



Total toe-in		Minimum	Out 2.0 mm (Out 0.08 in)
	Distance (A - B)	Nominal	In 0.5 mm (In 0.02 in)
		Maximum	In 3.0 mm (In 0.12 in)
	Angle (LH and RH)	Minimum	Out 0° 09' (Out 0.15°)
	Degree minute	Nominal	In 0° 03′ (In 0.05°)
	(Decimal degree)	Maximum	In 0° 15′ (In 0.25°)

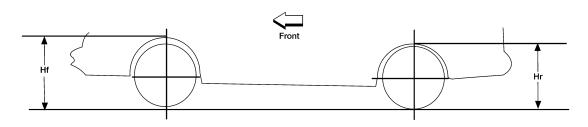
<sup>\*:</sup> Fuel, engine coolant, and lubricants are full. Spare tire, jack, hand tools, and mats are in designated positions.

# Wheelarch Height (Unladen\*1)

INFOID:0000000012544549

### **UNITED STATES & CANADA**

Unit: mm (in)



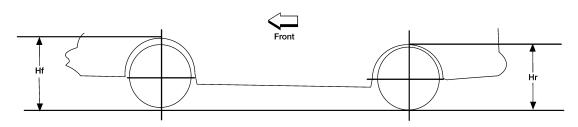
LEIA0085E

Tire size	P245/45R18	P245/40R19
Front (Hf)	708 (27.87)	704 (27.72)
Rear (Hr)	719 (28.31)	712 (28.03)

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

#### **MEXICO**

Unit: mm (in)



LEIA0085E

Tire size	P245/45R18	P245/40R19
Front (Hf)	717 (28.23)	715 (28.15)
Rear (Hr)	739 (29.09)	736 (28.98)

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

# **Brake Specifications**

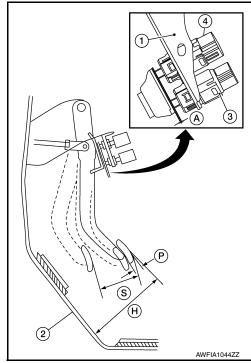
INFOID:0000000012544540

Unit: mm (in)

	Cylinder bore diameter	57.15 (2.250)
Front brake	Pad length × width × thickness	123.6 × 53.5 × 11.0 (4.866 × 2.106 × 0.433)
	Rotor outer diameter × thickness	320 × 28 (12.598 × 1.102)
	Cylinder bore diameter	34.93 (1.375)
Rear brake	Pad length × width × thickness	83.0 × 33.0 × 8.5 (3.268 × 1.299 × 0.335)
	Rotor outer diameter × thickness	308 × 16 (12.126 × 0.630)
Master cylinder	Cylinder bore diameter	25.4 (1.000)
Control valve	Valve type	Electric brake force distribution

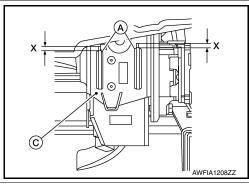
Brake Pedal

Unit: mm (in)



Item	Standard
Brake pedal height (H) from lower dash (2)	181.4 – 191.4 (7.14 – 7.54)
Clearance (A) between brake pedal bracket, stop lamp switch (3) and brake pedal position switch (4) contact ends	0.74 – 1.96 (0.0291 – 0.0772)
Brake pedal full stroke (S)	135.3 (5.33)
Brake pedal play (P)	_

Unit: mm (in)



Overlap distance (X) between sub-bracket (A) and slide plate (C)

 $5.5 \pm 0.5 \; (0.22 \pm 0.02)$ 

### Front Disc Brake

INFOID:0000000012544544

Unit: mm (in)

	Item	Limit
Brake pad	Standard thickness (new)	11.0 (0.433)
brake pau	Minimum thickness	2.0 (0.079)
Disc rotor	Standard thickness (new)	28.0 (1.102)
	Minimum thickness	26.0 (1.024)
	Thickness variation (measured at 8 positions)*	0.015 (0.0006)
	Maximum runout (with it attached to the vehicle)	0.040 (0.0016)

<sup>\*</sup> To check if rotor imbalance, rotor runout or rotor deformation exists.

#### Rear Disc Brake

INFOID:0000000012544545

Unit: mm (in)

	Item	Limit
Brake pad	Standard thickness (new)	8.5 (0.335)
Brake pad Minimum thick	Minimum thickness	1.0 (0.039)
Minimum thick	Standard thickness (new)	16.0 (0.630)
	Minimum thickness	14.0 (0.551)
	Thickness variation (measured at 8 positions)*	0.015 (0.0006)
	Maximum runout (with it attached to the vehicle)	0.05 (0.0020)

<sup>\*</sup> To check if rotor imbalance, rotor runout or rotor deformation exists.

### FOR USA AND CANADA: Fluids and Lubricants

INFOID:0000000013352070

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

Description -		Capacity (Approximate)		
		Metric	US measure	Imp measure
Fuel		68 <i>l</i>	18 gal	15 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 <i>Q</i>	4-3/4 qt	4 qt
	Dry engine (Overhaul)	5.2 ℓ	5-1/2 qt	4-5/8 qt

Description		Capacity (Approximate)			
	Metric	US measure	Imp measure		
Cooling system (with reservoir at MAX level)	9.2 ℓ	9-3/4 qt	8-1/8 qt		
CVT fluid	8.2 ℓ	8-5/8 qt	7-1/4 qt		
Power steering fluid (PSF)	1.1 ℓ	1-1/8 qt	1 qt		
Brake fluid	_	_	_		
Multi-purpose grease	_	_	_		
Windshield washer fluid	4.2 ℓ	4-1/2 qt	3-3/4 qt		
Air conditioning system refrigerant	0.55 ± 0.025 kg	1.21 ± 0.055 lb	1.21 ± 0.055 lb		
Air conditioning system oil	100 m ℓ	3.4 fl oz	3.5 fl oz		

# FOR MEXICO: Fluids and Lubricants

INFOID:0000000013352073

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

Description		Capacity (Approximate)		
		Metric	US measure	Imp measure
		68 <i>l</i>	18 gal	15 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
	Dry engine (engine overhaul)	5.2 ℓ	5-1/2 qt	4-5/8 qt
Cooling system (v	vith reservoir at MAX level)	9.2 ℓ	9-3/4 qt	8-1/8 qt
CVT fluid		8.2 ℓ	8-5/8 qt	7-1/4 qt
Power steering flu	id	1.1 ℓ	1-1/8 qt	1.0 qt
Brake fluid		_	_	_
Multi-purpose great	ase	_	_	_
Air conditioning sy	stem refrigerant	$0.55 \pm 0.025 \text{ kg}$	$1.21 \pm 0.055  lb$	1.21 ± 0.055 lb
Air conditioning sy	ystem oil	100 m ℓ	3.4 fl oz	3.5 fl oz
Windshield washe	er fluid	4.2 ℓ	4-1/2 qt	3-3/4 qt