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NISSAN MAXIMA

MODEL A36 SERIES

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QUICK REFERENCE INDEX

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 HYBRID	
D TRANSMISSION & DRIVE-LINE	TM Transaxle & Transmission
	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
	ADP Automatic Drive Positioner
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 Manual
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	CCS Cruise Control System
	DAS Driver Assistance System
	DMS Drive Mode System
P MAINTENANCE	MA Maintenance
Q INDEX	IDX Alphabetical Index

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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.



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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.*

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

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

DATE: _____ YOUR NAME: _____ POSITION: _____

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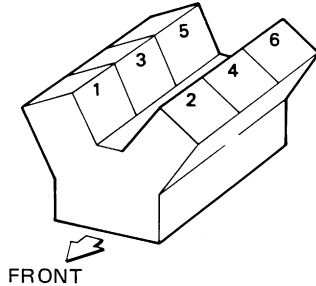
QUICK REFERENCE CHART: MAXIMA

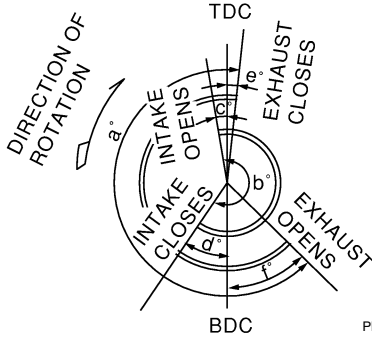
Engine Tune-up Data

INFOID:000000012544550

GENERAL SPECIFICATIONS

Cylinder arrangement		V-6
Displacement cm^3 (cu in)		3,498 (213.45)
Bore and stroke mm (in)		95.5 x 81.4 (3.760 x 3.205)
Valve arrangement		DOHC
Firing order		1-2-3-4-5-6
Number of piston rings	Compression	2
	Oil	1
Number of main bearings		4
Compression ratio		10.6:1
Compression pressure kPa (kg/cm^2 , psi)/300 rpm	Standard	1,275 (13.0, 185)
	Minimum	981 (10.0, 142)
	Differential limit between cylinders	98 (1.0, 14)

Cylinder number	 FRONT SEM713A
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Valve timing (Valve timing control - "OFF")	 PBIC0187E
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Unit: degree

a	b	c	d	e	f
256	240	-10	70	8	68

INFOID:000000012544551

DRIVE BELT

Tension of drive belt	Drive belt tension is not necessary, as it is automatically adjusted by drive belt auto-tensioner.
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QUICK REFERENCE CHART: MAXIMA

2016

INFOID:0000000012544552

SPARK PLUG

Unit: mm (in)

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

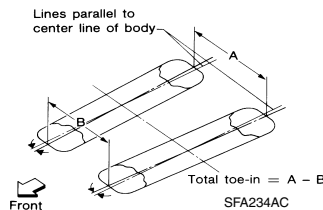
*: Always check with the Parts Department for the latest parts information.

Front Wheel Alignment (Unladen*)

INFOID:0000000012544547

UNITED STATES & CANADA

Tire size		P245/45R18	P245/40R19
Camber Degree minute (Decimal degree)	Minimum	-1° 08' (-1.14°)	
	Nominal	-0° 23' (-0.39°)	
	Maximum	0° 22' (0.36°)	
	(LH) and (RH) difference	0° 00' ± 0° 33' (0.00°± 0.55°)	
Caster Degree minute (Decimal degree)	Minimum	4° 05' (4.08°)	4° 10' (4.16°)
	Nominal	4° 50' (4.83°)	4° 55' (4.91°)
	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°)	



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

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

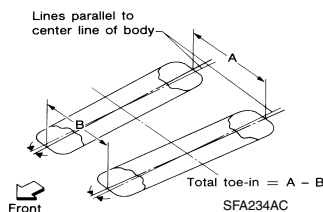
MEXICO

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

QUICK REFERENCE CHART: MAXIMA

2016

Caster Degree minute (Decimal degree)	Minimum	3° 45' (3.75°)
	Nominal	4° 30' (4.50°)
	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°)



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

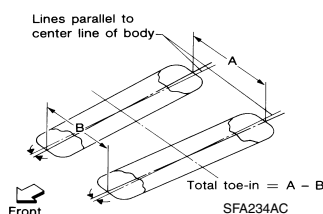
*: Fuel, engine coolant, and lubricants are full. Spare tire, jack, hand tools, and mats are in designated positions.

Rear Wheel Alignment (Unladen*¹)

INFOID:0000000012544553

UNITED STATES & CANADA

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



Total toe-in	Distance (A - B)	Minimum	In 0.1 mm (In 0.01 in)	In 0.6 mm (In 0.02 in)
		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 (Decimal degree)	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°)
		Maximum	In 0° 25' (In 0.42°)	In 0° 28' (In 0.46°)

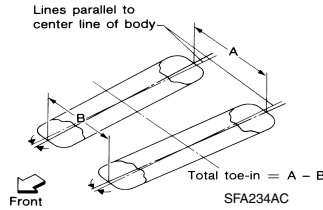
*: Fuel, engine coolant, and lubricants are full. Spare tire, jack, hand tools, and mats are in designated positions.

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°)	

QUICK REFERENCE CHART: MAXIMA

2016



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

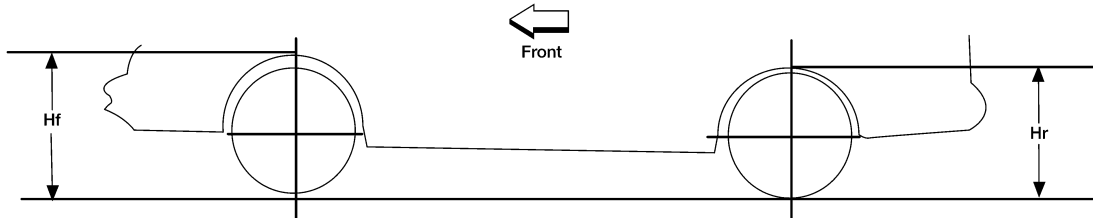
*: Fuel, engine coolant, and lubricants are full. Spare tire, jack, hand tools, and mats are in designated positions.

Wheelarch Height (Unladen*¹)

INFOID:0000000012544549

UNITED STATES & CANADA

Unit: mm (in)



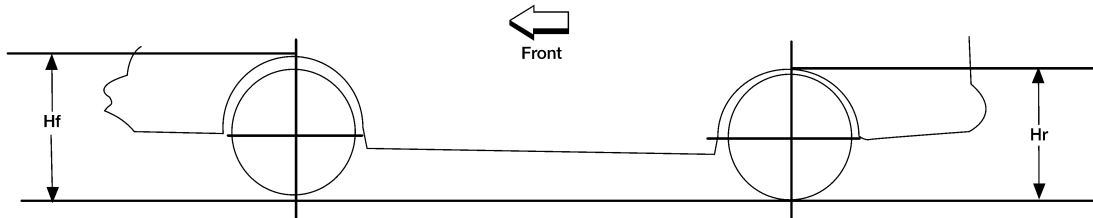
LEIA0085E

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

*1: 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)

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

QUICK REFERENCE CHART: MAXIMA

2016

Brake Specifications

INFOID:0000000012544540

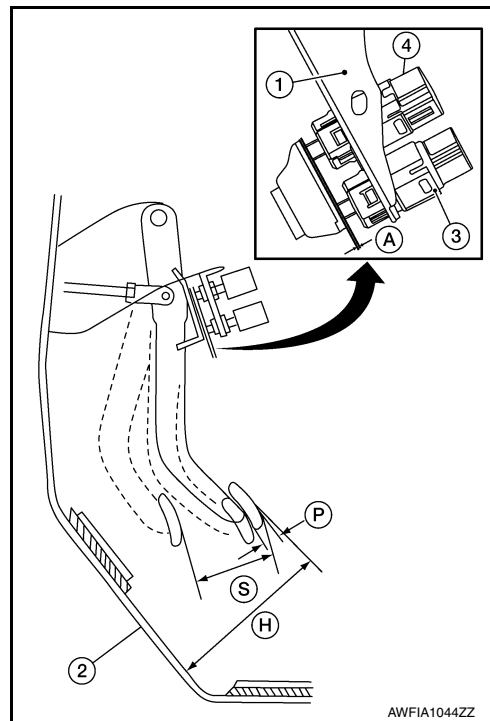
Unit: mm (in)

Front brake	Cylinder bore diameter	57.15 (2.250)
	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)
Rear brake	Cylinder bore diameter	34.93 (1.375)
	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

INFOID:0000000012544541

Unit: mm (in)

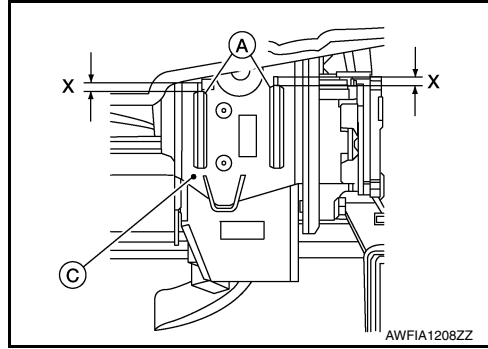


Item	Standard
Brake pedal height (H) from lower dash (2)	181.4 – 191.4 (7.14 – 7.54)
Clearance (A) between brake pedal bracket, stop lamp switch (3) and brake pedal position switch (4) contact ends	0.74 – 1.96 (0.0291 – 0.0772)
Brake pedal full stroke (S)	135.3 (5.33)
Brake pedal play (P)	—

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2016

Unit: mm (in)



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

5.5 ± 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)
	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)

* 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)
	Minimum thickness	1.0 (0.039)
Disc rotor	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)

* 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 ℓ	18 gal	15 gal
Engine oil Drain and refill	With oil filter change	4.8 ℓ	5-1/8 qt	4-1/4 qt
	Without oil filter change	4.5 ℓ	4-3/4 qt	4 qt
	Dry engine (Overhaul)	5.2 ℓ	5-1/2 qt	4-5/8 qt

QUICK REFERENCE CHART: MAXIMA

2016

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
Fuel		68 ℓ	18 gal	15 gal
Engine oil Drain and refill	With oil filter change	4.8 ℓ	5-1/8 qt	4-1/4 qt
	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 (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		1.1 ℓ	1-1/8 qt	1.0 qt
Brake fluid		—	—	—
Multi-purpose grease		—	—	—
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
Windshield washer fluid		4.2 ℓ	4-1/2 qt	3-3/4 qt