	Ω	JICK REFERENCE INDEX		
Edition: August 2012		GENERAL INFORMATION	CI	General Information
Revision: August 2012 Publication No. SM3E-1A35U0			GI EM	Engine Mechanical
Publication No. SMSE-1A3500	В	ENGINE	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
	С	HYBRID	HBC	Hybrid Control System
			HBB	Hybrid Battery System
			HBR	Hybrid Brake System
	D	TRANSMISSION & DRIVE-	CL	Clutch System
			TM DLN	Transaxle & Transmission Driveline
		:	FAX	Front Axle
			RAX	Rear Axle
	E	SUSPENSION	FSU	Front Suspension
	_		RSU	Rear Suspension
			SCS	Suspension Control System
			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
NISSAN	Н	RESTRAINTS	SB SBC	Seat Belt Control Control
			SR	Seat Belt Control System SRS Airbag
MAXIMA			SRC	SRS Airbag Control System
IAIL-AVALIAIV-A	$\overline{}$	VENTILATION, HEATER & AIR CONDITIONER	VTL	Ventilation System
MODEL A35 SERIES	-		НА	Heater & Air Conditioning System
WODEL A35 SERIES			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	DLK	Door & Lock Security Control System
		SECURITY	SEC	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
All wholes are consisted to the	R 4	ELECTRICAL & DOWER	HRN	Horn
All rights reserved. No part	M	ELECTRICAL & POWER CONTROL	PWO BCS	Power Outlet Body Control System
of this Service Manual may			LAN	LAN System
be reproduced or stored in a			PCS	Power Control System
retrieval system, or transmit-			CHG	Charging System
ted in any form, or by any			PG	Power Supply, Ground & Circuit Elements
means, electronic, mechani-	N	DRIVER INFORMATION &	MWI	Meter, Warning Lamp & Indicator
cal, photo-copying, record-		MULTIMEDIA	WCS	Warning Chime System
ing or otherwise, without the			SN	Sonar System
prior written permission of			AV	Audio, Visual & Navigation System
Nissan North America, Inc.	0		ccs	Cruise Control System
	Р	MAINTENANCE	MA	Maintenance

A

B

D

G

J

K

M

N

P

FOREWORD

This manual contains maintenance and repair procedure for the 2013 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	O. (Refer to Quick Reference Index):):			
Please describe a	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.		
	diagnosis procedures logical and eas	, ,	•		
· -	the issue or problem in detail:				
_	on of the manual clear and easy to f	,	swer) YES NO		
What informatio repairing custon	n should be included in NISSAN Ser ner vehicles?	vice Manuals to better	support you in servicing or		
DATE:	YOUR NAME:		POSITION:		
DEALER:	DEALER NO.:	ADDRESS: _			
CITY:	STATE/PROV./COUNT	RY: ZIF	P/POSTAL CODE:		

QUICK REFERENCE CHART: MAXIMA

Engine Tune-up Data

INFOID:0000000008945618

GENERAL SPECIFICATIONS

Displacement cm³ (cu in) Bore and stroke mm (in) Valve arrangement Firing order Number of piston rings Compression Oil Number of main bearings Compression ratio Standard Minimum Differential limit between cylinders	3,498 (213.45) 95.5 x 81.4 (3.760 x 3.205) DOHC 1-2-3-4-5-6 2
Valve arrangement Firing order Number of piston rings Compression Oil Number of main bearings Compression ratio Compression pressure kPa (kg/cm², psi)/300 rpm Standard Minimum	DOHC 1-2-3-4-5-6 2
Firing order Number of piston rings Oil Number of main bearings Compression ratio Standard Compression pressure kPa (kg/cm², psi)/300 rpm Compression ratio	1-2-3-4-5-6 2
Number of piston rings Compression Oil Number of main bearings Compression ratio Standard Compression pressure kPa (kg/cm², psi)/300 rpm Minimum	2
Number of piston rings Oil Number of main bearings Compression ratio Standard Compression pressure kPa (kg/cm², psi)/300 rpm Minimum	
Number of main bearings Compression ratio Standard Compression pressure kPa (kg/cm², psi)/300 rpm Minimum	1
Compression ratio Standard Compression pressure kPa (kg/cm², psi)/300 rpm Minimum	
Compression pressure kPa (kg/cm², psi)/300 rpm Standard Minimum	4
Compression pressure kPa (kg/cm², psi)/300 rpm Minimum	10.6:1
kPa (kg/cm ² , psi)/300 rpm	1,275 (13.0, 185)
Differential limit between cylinders	981 (10.0, 142)
3 5	98 (1.0, 14)
FRONT	SEM713A
Valve timing (Valve timing control - "OFF")	S O S
	PBIC0187E
a b c d	PBIC0187E Unit: degre

Drive Belt

70

10

50

-10

DRIVE BELT

240

240

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

Spark Plug

SPARK PLUG

Unit: mm (in)

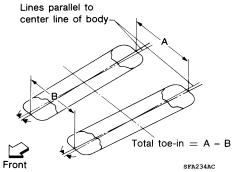
Make	DENSO	
Standard type*	FXE22HR11	
Con	Standard	1.1 (0.043)
Gap	Limit	1.4 (0.055)

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

Front Wheel Alignment (Unladen*)

INFOID:0000000008945617

Market			United States/Canada Mexico			xico
Tire size			P245/45R18	P245/40R19	P245/45R18	P245/40R19
Camber		Minimum	-1°05' (-1.10°)	-1°10' (-1.15°)	-0°55'	(-0.95°)
Degree minute (Decimal degree)	LH	Nominal	-0°20' (-0.35°)	-0°25' (-0.40°)	-0°10'	(-0.20°)
9.00)		Maximum	0°25' (0.40°)	0°20' (0.35°)	0°35' (0.55°)	
		Minimum	-1°20' (-1.35°)	-1°25' (-1.40°)	-1°10'	(-1.20°)
	RH	Nominal	-0°35' (-0.60°)	-0°40' (-0.65°)	-0°25'	(-0.45°)
		Maximum	0°10' (0.15°)	0°05' (0.10°)	0°20'	(0.30°)
	RH with respec	t to LH	0°15' ± 0°33' (0.25°± 0.55°)			
Caster		Minimum	4°10' (4.20°)	4°15' (4.25°)	3°45'	(3.75°)
Degree minute (Decimal degree Against ground surface	e)	Nominal	4°55' (4.95°)	5°00' (5.00°)	4°30'	(4.50°)
rigamet ground candos		Maximum	5°40' (5.70°)	5°45' (5.75°)	5°15'	(5.25°)
		Maximum left and right dif- ference	0°33' (0.55°)			
Kingpin offset Degree minute (Decimal degree)		14°25'	(14.42°)	14°05'	(14.10°)	



Total toe-in		Minimum	Out 1 mm (Out 0.03 in)
	Total toe-in Distance (A - B)	Nominal	In 1 mm (In 0.03 in)
Toe-in	2.0ta00 (x x 2)	Maximum	In 3 mm (In 0.11 in)
10e-111		Minimum	(Out 0.08°) (Out 0°04′48")
	Angle (left or right, each side) Degree minute (Degree)	Nominal	(In 0.08°) (In 0°04′48″)
		Maximum	(In 0.24°) (Out 0°14′24″)

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

Rear Wheel Alignment (Unladen*)

INFOID:0000000008945615

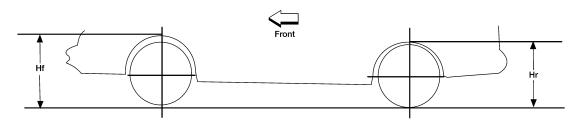
Market			United States*1	United States*2	Canada*1	Canada*2	Mexico
Camber Degree minute (Decimal degree)		Minimum	-0° 55′ (- 0.92°)	-1° 02′ (- 1.03°)	-0° 52′ (- 0.87°)	-1° 02′ (- 1.03°)	-0° 10′ (- 0.2°)
		Nominal	-0° 25′ (- 0.42°)	-0° 32′ (- 0.53°)	-0° 22′ (- 0.37°)	-0° 32′ (- 0.53°)	0° 20′ (0.3°)
		Maximum	0° 05′ (0.08°)	-0° 02′ (- 0.03°)	0° 8′ (0.13°)	-0° 02′ (- 0.03°)	0° 50′ (0.8°)
Toe-in Angle Degree minute (decimal degree)		Minimum	Out 1.4 mm (Out 0.05 in)	Out 1.1 mm (Out 0.04 in)	Out 1.4 mm (Out 0.05 in)	Out 1.1 mm (Out 0.04 in)	Out 1.4 mm (Out 0.05 in)
	Distance	Nominal	In 1.6 mm (In 0.06 in)	In 1.9 mm (In 0.07 in)	In 1.6 mm (In 0.06 in)	In 1.9 mm (In 0.07 in)	In 1.6 mm (In 0.06 in)
	Maximum	In 4.6 mm (In 0.18 ln)	In 4.9 mm (In 0.19 in)	In 4.6 mm (In 0.18 ln)	In 4.9 mm (In 0.19 in)	In 4.6 mm (In 0.18 ln)	
	Minimum	Out 0° 3′ 36″ (Out 0.06°)	Out 0° 2′ 24″ (Out 0.04°)	Out 0° 3′ 36″ (Out 0.06°)	Out 0° 2′ 24″ (Out 0.04°)	Out 0° 3′ 36″ (Out 0.06°)	
	Degree minute (decimal	Nominal	In 0° 8′ 24″ (In 0.14°)	In 0° 9′ 36″ (In 0.16°)	In 0° 8′ 24″ (In 0.14°)	In 0° 9′ 36″ (In 0.16°)	In 0° 8′ 24″ (In 0.14°)
		Maximum	In 0° 20′ 24″ (In 0.34°)	In 0° 21′ 36″ (In 0.36°)	In 0° 20′ 24″ (In 0.34°)	In 0° 21′ 36″ (In 0.36°)	In 0° 20′ 24″ (In 0.34°)

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

Wheelarch Height (Unladen*1)

INFOID:0000000008945616

Unit: mm (in)



LEIA0085E

Market		United States			Canada		Me	xico
Tire size	P245/ 45R18 ^{*2}	P245/ 45R18 ^{*3}	P245/ 40R19 ^{*2}	P245/ 45R18 ^{*2}	P245/ 45R18 ^{*3}	P245/ 40R19 ^{*2}	P245/ 45R18 ^{*2}	P245/ 40R19 ^{*2}
Front (Hf)	719 (28.31)	719 (28.31)	723 (28.46)	720 (28.35)	719 (28.31)	723 (28.46)	729 (28.70)	732 (28.82)
Rear (Hr)	728 (28.66)	727 (28.62)	730 (28.74)	728 (28.66)	727 (28.62)	730 (28.74)	747 (29.41)	750 (29.53)

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

Brake Specifications

INFOID:0000000008945613

Unit: mm (in)

Brake model	Kiriu

^{*1: 18&}quot; tire.

^{*2: 19&}quot; tire.

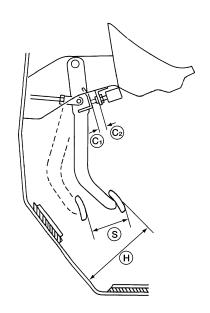
^{*2:} Without top load sunroof

^{*3:} With top load sunroof

	Cylinder bore diameter	57.15 (2.250)
Front brake	Pad length × width × thickness	123.6 × 47.5 × 11 (4.866 × 1.870 × 0.433)
	Rotor outer diameter × thickness	320 × 28 (12.598 × 1.102)
	Brake model	Kiriu
Rear brake	Cylinder bore diameter	34.93 (1.375)
Real 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	23.81 (0.937)
Control valve	Valve model	Electric brake force distribution
Brake booster	Booster model Bosch	

Brake Pedal

Unit: mm (in)



AWFIA0557ZZ

Brake pedal free height (H)	190.7 - 202.7 (7.51 - 7.98)
Brake pedal full stroke (S)	130.0 (5.12)
Clearance between brake pedal bracket (C1) and threaded end of stop lamp switch and ASCD cancel switch (C2)	0.74 - 1.96 (0.0291 - 0.0772)

Front Disc Brake

Unit: mm (in)

Brake model		Kiriu
Brake pad	Standard thickness (new)	11.0 (0.433)
Бтаке рац	Minimum thickness	2.0 (0.079)
	Standard thickness (new)	28.0 (1.102)
Disc rotor	Minimum thickness	26.0 (1.024)
DISC TOLOI	Thickness variation (measured at 8 positions)	0.015 (0.0006)
	Maximum runout (with it attached to the vehicle)	0.035 (0.0014)

Rear Disc Brake

Unit: mm (in)

Brake model		Kiriu
Brake pad	Standard thickness (new)	8.5 (0.335)
Біаке рац	Minimum thickness	1.0 (0.039)
	Standard thickness (new)	16.0 (0.630)
Disc rotor	Minimum thickness	14.0 (0.551)
DISCIOIOI	Thickness variation (measured at 8 positions)	0.015 (0.0006)
	Maximum runout (with it attached to the vehicle)	0.05 (0.002)

FOR USA AND CANADA: Fluids and Lubricants

INFOID:0000000008945605

Description -		Capacity (Approximate)		
		Metric	US measure	Imp measure
		75.6 <i>ℓ</i>	20 gal	16-5/8 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>l</i>	4-3/4 qt	4 qt
	Dry engine (Overhaul)	5.3 ℓ	5-5/8 qt	4-5/8 qt
Cooling system (with reservoir at MAX level)		9.0 ℓ	9-1/2 qt	7-7/8 qt
CVT fluid		10.2 ℓ	10-3/4 qt	9 qt
Power steering fluid (PSF)		1.0 ℓ	1-1/8 qt	7/8 qt
Brake fluid		_	_	_
Multi-purpose grease		_	_	_
Windshield washer fluid		4.5 ℓ	4-3/4 qt	4 qt
Air conditioning system refrigera	ant	$0.55 \pm 0.025 \ kg$	1.21 ± 0.055 lb	1.21 ± 0.055 lb
Air conditioning system oil	_	150 m ℓ	5.03 fl oz	5.03 fl oz

FOR MEXICO: Fluids and Lubricants

INFOID:0000000008945608

Description		Capacity (Approximate)		
Description		Metric US measure Imp measure		
Fuel 75.6		75.6 ℓ	20 gal	16-5/8 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)	5.3 ℓ	5-5/8 qt	4 5/8 qt
Cooling system (v	vith reservoir at MAX level)	9.0 ℓ	9-1/2 qt	7-7/8 qt
CVT fluid		10.2 ℓ	10-3/4 qt	9 qt
Power steering flu	id	1.0 ℓ	1-1/8 qt	7/8 qt
Brake fluid		_	_	_

Description	Capacity (Approximate)			
Description	Metric	Metric US measure Imp mea		
Multi-purpose grease	_	_	_	
Air conditioning system refrigerant	$0.55 \pm 0.025 \ \text{kg}$	1.21 ± 0.055 lb	1.21 ± 0.055 lb	
Air conditioning system oil	150 m ℓ	5.03 fl oz	5.03 fl oz	
Windshield washer fluid	4.5 ℓ	4-3/4 qt	4 qt	