	0	UICK REFERENCE INDEX			1
Edition: August 2010 Revision: January 2011	_	GENERAL INFORMATION	GI	General Information	
Publication No. SM1E-1A35U1			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	
	С	HYBRID	HBC	Hybrid Control System	
			HBB	Hybrid Battery System	
	<u> </u>	TRANSMISSION & DRIVE-	HBR CL	Hybrid Brake System Clutch System	
	U	LINE	TM	Transaxle & Transmission	
			DLN	Driveline	
			FAX	Front Axle	
			RAX	Rear Axle	
	Е	SUSPENSION	FSU	Front Suspension	
			RSU	Rear Suspension	
			SCS	Suspension Control System	
			WT	Road Wheels & Tires	
	F	BRAKES	BR	Brake System	
			PB	Parking Brake System	<b>I</b> G
			BRC	Brake Control System	
	G	STEERING	ST	Steering System	
	<del></del>		STC	Steering Control System	
INISSAN	н	RESTRAINTS	SB	Seat Belt	
			SBC SR	Seat Belt Control System SRS Airbag	
MAXIMA			SRC	SRS Airbag Control System	
		VENTILATION, HEATER &	VTL	Ventilation System	
MODEL A35 SERIES	•	AIR CONDITIONER	HA	Heater & Air Conditioning System	
MODEL 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	SEC	Security Control System	
			GW	Glass & Window System	
			PWC RF	Power Window Control System Roof	
			EXT	Exterior	
			BRM	Body Repair Manual	ΝЛ
	L	DRIVER CONTROLS	MIR	Mirrors	
			EXL	Exterior Lighting System	
			INL	Interior Lighting System	
			WW	Wiper & Washer	
			DEF	Defogger	
			HRN	Horn	
All rights reserved. No part	М	ELECTRICAL & POWER CONTROL	PWO	Power Outlet	
of this Service Manual may		CONTINCE	BCS	Body Control System	
be reproduced or stored in a			LAN PCS	LAN System 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.		CRUISE CONTROL	CCS	Cruise Control System	
	Ρ	MAINTENANCE	MA	Maintenance	
					8

# FOREWORD

This manual contains maintenance and repair procedure for the 2011 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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repairing customer vehicles?	
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## Engine Tune-up Data

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				DC	HC	
Firing order				1-2-3	-4-5-6	
Number of pictor vis	~~	Compression			2	
Number of piston ring	ys	Oil			1	
Number of main bear	rings	+			4	
Compression ratio				10	.6:1	
Q		Standard		1,275 (1	3.0, 185)	
Compression pressu kPa (kg/cm <sup>2</sup> , psi)/300		Minimum		981 (10	0.0, 142)	
	o ipin	Differential limit betw	een cylinders	98 (1	.0, 14)	
		FRONT SEM713A				
Valve timing (Valve timing control	- "OFF")		POLACTON OF POLATION OF	STATA		
					Unit: degre	
а	b	C	d	е	Unit: degre f	

#### **DRIVE BELT**

Tension of drive belt

INFOID:000000006832743

# Spark Plug

INFOID:000000006832745

2011

#### 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:000000006832742

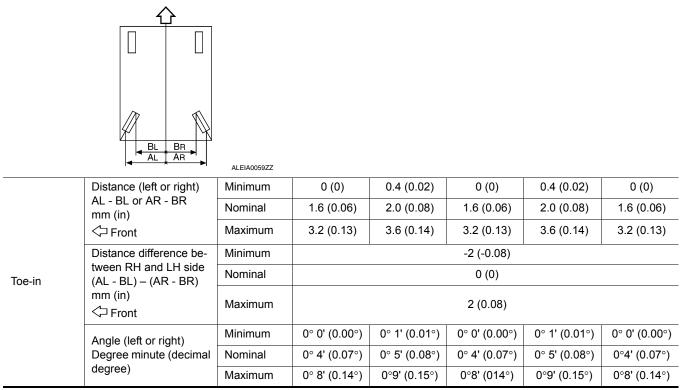
Market				United Stat	tes/Canada	Me	xico	
Tire size				245/45R18	245/40R19	245/45R18	245/40R19	
Camber			Minimum	-1°05' (-1.10°)	-1°10' (-1.15°)	-0°55'	(-0.95°)	
Degree minute gree)	Degree minute (Decimal de-		Nominal	-0°20' (-0.35°)	-0°25' (-0.40°)	-0°10'	(-0.20°)	
9.00)			Maximum	0°25' (0.40°)	0°20' (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°)	
	RH with respec		Maximum	0°10' (0.15°)	0°05' (0.10°)	0°20'	(0.30°)	
			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 Against ground	(Decimal degree	)	Nominal	4°55' (4.95°)	5°00' (5.00°)	4°30'	(4.50°)	
, iganier ground	currace		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°)		(14.10°)		
			Minimum	0 mm (0.0 in)				
	Distance (A - B	)	Nominal		1 mm (0.039 in)			
Total toe-in		-		2 mm (0.079 in)				
					0°00′(0.00°)			
	Angle (left or rig Degree minute		Nominal	0°02′(0.03°)				
			Maximum		0°00′(	(0.00°)		

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

# Rear Wheel Alignment (Unladen\*)

INFOID:000000006832740

Market		USA*1	USA*2	Canada*1	Canada*2	Mexico
	Minimum	−0° 55′ (− 0.92°)	-1° 02′ (- 1.03°)	–0° 52′ (– 0.87°)	−1° 02′ (− 1.03°)	-0° 10′ (- 0.2°)
Camber Degree minute (Decimal degree)	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°)



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

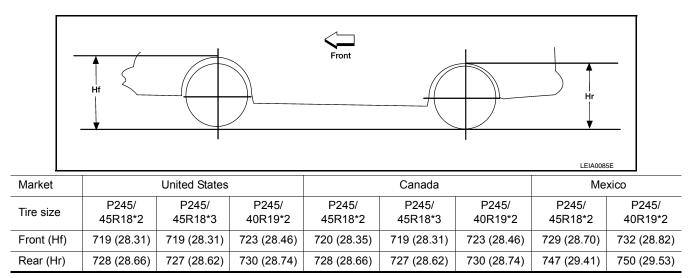
\*1: 18" tire.

\*2: 19" tire.

#### Wheelarch Height (Unladen\*1)

INFOID:000000006832741

Unit: mm (in)



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

\*2: Without top load sunroof

\*3: With top load sunroof

# Brake Specifications

INFOID:000000006832738

Unit: mm (in)

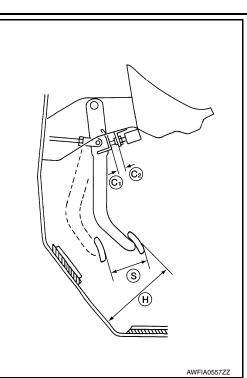
2011

Brake model		Kiriu	
	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	
Descharte	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	23.81 (0.937)	
Control valve	Valve model	Electric brake force distribution	
Brake booster	Booster model	Bosch	
Recommended b	brake fluid	DOT 3	

## Brake Pedal

INFOID:000000006832739

Unit: mm (in)



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 and threaded end of stop lamp switch (C1) and ASCD cancel switch (C2)	0.74 - 1.96 (0.0291 - 0.0772)

# Front Disc Brake

INFOID:000000006832736

Unit: mm (in)

Brake model		Kiriu
Brake pad	Standard thickness (new)	11.0 (0.433)
	Repair limit thickness	2.0 (0.079)

Brake model		Kiriu	
	Standard thickness (new)	28.0 (1.102)	
Disc rotor	Repair limit thickness	26.0 (1.024)	
	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

INFOID:000000006832737

Unit: mm (in)

Brake model		Kiriu
Droke red	Standard thickness (new)	8.5 (0.335)
Brake pad	Repair limit thickness	1.0 (0.039)
	Standard thickness (new)	16.0 (0.630)
Diag ratar	Repair limit thickness	14.0 (0.551)
Disc rotor	Thickness variation (measured at 8 positions)	0.015 (0.0006)
	Maximum runout (with it attached to the vehicle)	0.05 (0.002)

# Fluids and Lubricants: for NORTH AMERICA

INFOID:000000006832730

De	escription	Capacity (Approximate)				
De	scription	Liter	US measure	Imp measure		
Fuel		75.6	20 gal	16-5/8 gal		
	With oil filter change	4.8	5-1/8 qt	4-1/2 qt		
Engine oil Drain and refill	Without oil filter change	4.5	4-3/4 qt	4 qt		
	Dry engine (Overhaul)	5.3	5-5/8 qt	4-5/8 qt		
Cooling system with reservoir at MAX level		9.0	9-1/2 qt	7-7/8 qt		
CVT fluid		10.2	10-3/4 qt	9 qt		
Power steering fluid (PSF)		1.0	1-1/8 qt	7/8 qt		
Brake fluid		_	—	_		
Multi-purpose grease		_	—	_		
Air conditioning system refrigerant		$0.55\pm0.025~\text{kg}$	$1.21\pm0.055~\text{lb}$	$1.21\pm0.055~\text{lb}$		
Air conditioning system oil		150 m <i>l</i>	5.03 fl oz	5.03 fl oz		
Windshield washer fluid		4.3	4 1/2 qt	3 3/4 qt		

# Fluids and Lubricants: for MEXICO

INFOID:000000006832733

Description		Capacity (Approximate)	
Description		Liter	Imp measure
Fuel		75.6	16-5/8 gal
Engine oil Drain and refill	With oil filter change	4.8	4 1/2 qt
	Without oil filter change	4.5	4 qt
	Dry engine (engine overhaul)	5.3	4 5/8 qt
Cooling system (with reservoir at MAX level)		9.0	7-7/8 qt

Description	Capacity (Approximate)	
Description	Liter	Imp measure
CVT fluid	10.2	9 qt
Power steering fluid	1.0	7/8 qt
Brake fluid	_	—
Multi-purpose grease	_	—
Air conditioning system refrigerant	$0.55\pm0.025~\text{kg}$	$1.21\pm0.055~\text{lb}$
Air conditioning system oil	150 m ℓ	5.03 fl oz
Windshield washer fluid	4.3	3 3/4 qt