	QUI	CK REFERENCE INDEX			I _
Edition: May 2006	Α	GENERAL INFORMATION	GI	General Information	
Revision: May 2006	В	ENGINE	EM	Engine Mechanical	14
Publication No. SM7E-1A34U0			LU	Engine Lubrication System	ĪF
			СО	Engine Cooling System	
			EC	Engine Control System	īĿ
			FL	Fuel System	7
			EX	Exhaust System	
			ACC	Accelerator Control System	
	С	TRANSMISSION/ TRANSAXLE	CVT	СVТ	
	D	DRIVELINE/AXLE	FAX	Front Axle	
			RAX	Rear Axle	
	Е	SUSPENSION	FSU	Front Suspension	
			RSU	Rear Suspension	
			WT	Road Wheels & Tires	
	F	BRAKES	BR	Brake System	
			PB	Parking Brake System	
			BRC	Brake Control System	
BUCCARI	G	STEERING	PS	Power Steering System	
NISSAN	Н	RESTRAINTS	SB	Seat Belts	
RAAVIRAA			SRS	Supplemental Restraint System (SRS)	
MAXIMA	I	BODY	BL	Body, Lock & Security System	
140DEL 404 0EDIE0			GW	Glasses, Window System & Mirrors	
MODEL A34 SERIES			RF	Roof	
			티	Exterior & Interior	
			IP	Instrument Panel	
			SE	Seat	
	J	AIR CONDITIONER	ATC	Automatic Air Conditioner	
	K	ELECTRICAL	SC	Starting & Charging System	
			LT	Lighting System	
			DI	Driver Information System	
			WW	Wiper, Washer & Horn	
			BCS	Body Control System	
			LAN	LAN System	
			AV	Audio Visual, Navigation & Telephone System	
			ACS	Auto Cruise Control System	
			PG	Power Supply, Ground & Circuit Elements	
		MAINTENIANCE	B/I A	Maintananaa	i

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MΑ

Maintenance

Alphabetical Index

L MAINTENANCE

M INDEX

FOREWORD

This manual contains maintenance and repair procedures for the 2007 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) 488-3910 SERVICE MANUAL: Model: ______ Year: _____ PUBLICATION NO. (Refer to Quick Reference Index):

Please describe a	ny Service Manual issues or problems in	detail:
Page number(s) _	Note: Please include	a copy of each page, marked with your comment
Are the trouble d	liagnosis procedures logical and easy t	to use? (circle your answer) YES NO
f no, what page nu	umber(s)?Note: Please includ	de a copy of each page, marked with your comment
Please describe th	ne issue or problem in detail:	
	_	
s the organization	on of the manual clear and easy to follo	ow? (circle your answer) YES NO
Please comment:		
What information epairing custom		e Manuals to better support you in servicing o
epairing custom	er veriicles:	
 DATE:	YOUR NAME:	POSITION:
		ADDRESS:
CITY:	STATE/PROV./COUNTRY:	ZIP/POSTAL CODE:

QUICK REFERENCE CHART: MAXIMA

PFP:00000

Engine Tune-Up Data

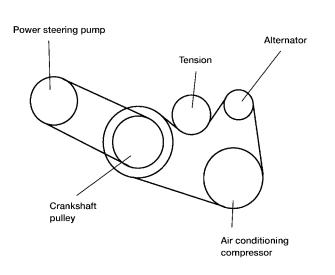
ELS001PU

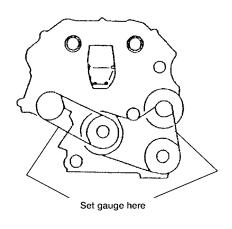
Cylinder arrangemen	.t			\/	-6	
Displacement				3,498 cm ³ (213.45 in ³)		
Bore and stroke				95.5 x 81.4 mm (3.76 x 3.205 in)		
Valve arrangement					HC	
Firing order		I		1-2-3-4-5-6		
Number of piston ring	gs	Compression			2	
		Oil			1	
Number of main bear	rings				4	
Compression ratio		1			.3:1	
	Standard			1,275 kPa (13.0 cm²	² , 185 psi) / 300 rpm	
Compression pressu	re	Minimum		981 kPa (10.0 cm ²	, 142 psi) / 300 rpm	
		Differential limit betw	een cylinders	98 kPa (1.0 cm ²	, 14 psi) / 300 rpm	
			FRONT	SEM713A		
Valve timing (IVTC - 0	OFF)		BIG CONTAINTAINE OF STANDS	OC SANOLO OC PBICO187E		
		1			Unit: degree	
а	b	С	d	е	f	
	238°	- 6°	64°	8°	52°	

Spark Plugs (Double-Platinum Tipped)

Make	NGK
Part number	DILFR5A11
Gap (nominal)	1.1 mm (0.043 in)

Drive Belt Deflection and Tension





LBIA0076E

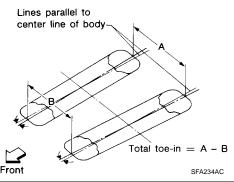
	Deflection adjus	tment	Unit: mm (in)	Tension adjustme	ent*	Unit: N (kg, lb)
	Use	ed belt	New belt	Use	d belt	New belt
	Limit	After adjustment	new beit	Limit	After adjustment	New Delt
Alternator and air conditioning compressor	7 (0.28)	4.2 - 4.6 (0.17 - 0.18)	3.7 - 4.1 (0.15 - 0.16)	294 (30, 66)	730 - 818 (74.5 - 83.5, 164 - 184)	838 - 926 (85.5 - 94.5, 188 - 208)
Power steering pump	11 (0.43)	7.3 - 8 (0.29 - 0.30)	6.5 - 7.2 (0.26 - 0.28)	196 (20, 44)	495 - 583 (50.5 - 59.5, 111 - 131)	603 - 691 (61.5 - 70.5, 135.6 - 155.4)
Applied pushing force		98 (10, 22)			_	

^{*:} If belt tension gauge cannot be installed at check points shown, check drive belt tension at different location on the belt.

Front Wheel Alignment (Unladen*1)

ELS001PV

Market Tire size		United States	s and Canada	Mexico
		225/55R17	245/45R18	All
Camber	Minimum	-1°00′	(-1.00°)	-0°50′ (-0.83°)
degree minute (decimal degree)	Nominal	-0°15′	(-0.25°)	-0°05′ (-0.08°)
	Maximum	0°30′	(0.50°)	0°40′ (0.67°)
	Left and right difference	45' (0.75°) or less		45' (0.75°) or less
Caster	Minimum	2°05′ (2.08°)		1°55′ (1.92°)
degree minute (decimal degree)	Nominal	2°50′ (2.83°)		2°40′ (2.67°)
	Maximum	ximum 3°35′ (3.58°)		3°25′ (3.42°)
	Left and right difference	45′ (0.75	5°) or less	45' (0.75°) or less
Kingpin inclination	Minimum	13°50′	(13.83°)	13°10′ (13.17°)
degree minute (decimal degree)	Nominal	14°35′ (14.58°)		13°55′ (13.92°)
	Maximum	15°20′	(15.33°)	14°40′ (14.67°)



Total toe-in		Minimum	-0.5 (-	-0.020)	0.0 (0.000)
	Distance (A – B) mm (in)	Nominal	0.5 (0.020)		1.0 (0.040)
	()	Maximum	1.5 (0.059)		2.0 (0.080)
	Angle (left plus right)	Minimum	_	_	_
	degree minute (decimal	Nominal	2′ (0.03°)		3′ (0.05°)
	degree)	Maximum	_		_
Wheel turning	urning Inside	Minimum	32°00′ (32.0°)	31°00′ (31.0°)	_
angle full turn*2	degree minute (decimal	Nominal	35°30′ (35.5°)	34°30′ (34.5°)	_
	degree)	Maximum	36°30′ (36.5°)	35°30′ (35.5°)	_
	Outside degree minute (decimal degree)	Nominal	29°00′ (29.0°)	28°30′ (28.5°)	_

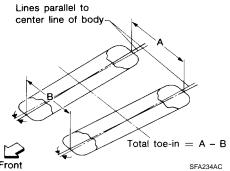
^{*1:} Fuel, radiator coolant and engine oil full. Spare tire, jack, hand tools and mats in designated positions.

^{*2:} On power steering models, wheel turning force (at circumference of steering wheel) of 98 to 147 N (10 to 15 kg, 22 to 33 lb) with engine idle.

Rear Wheel Alignment (Unladen*)

ELS001PW

Market		United States and Canada	Mexico
	Minimum	-0° 08' (-0.13°)	-0° 30' (-0.5°)
Camber Degree minute (Decimal degree)	Nominal	-0° 38′ (-0.63°)	0° 0' (0°)
	Maximum	-0° 68′ (-1.13°)	0° 30' (0.5°)



		Minimum	2.3 (0.091)	1.3 (0.051)
	Distance (A – B) mm (in)	Nominal	3.8 (0.150)	2.8 (0.110)
	()	Maximum	5.3 (0.209)	4.3 (0.169)
Total toe-in	Distance difference	Minimum	-2.0 (-	0.079)
	between RH and LH side	Nominal	0	(0)
	mm (in)	Maximum	2.0 (0	0.079)
Angle (left plus right) Degree minute (Decimal degree)	Minimum	0° 6′ (0.10°)	0° 3' (0.05°)	
	Nominal	0° 10′ (0.17°)	0° 7' (0.12°)	
	Maximum	0° 14′ (0.23°)	0° 11' (0.18°)	

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

Brake

ELS001PX

Unit: mm (in)

	Brake model		CLZ25VE disc brake
	Cylinder bore diameter		57.2 (2.25)
Front brake	Pad Length × width × thicknes	SS	111.0 × 62.5 × 9.5 (4.37 × 2.46 × 0.37)
	Rotor outer diameter × th	nickness	320 × 28 (12.60 × 1.10)
	Brake model		AD9A disc brake
	Cylinder bore diameter		34.9 (1.374)
Rear brake	Pad Length × width × thicknes	SS	83.0 × 33.0 × 8.5 (3.27 × 1.30 × 0.33)
	Rotor outer diameter × th	nickness	292 × 9 (11.50 × 0.35)
Master cylinder	Cylinder bore diameter		23.81 (15/16)
Control valve	Screw in type		30 × 0.4 (1.18 × 0.02)
	Booster model		M215T
Brake booster		Primary	230 (9.06)
	Diaphragm diameter	Secondary	205 (8.07)
Recommended brake	fluid		Genuine NISSAN Super Heavy Duty Brake Fluid, or equivalent DOT 3 (US FMVSS No. 116)

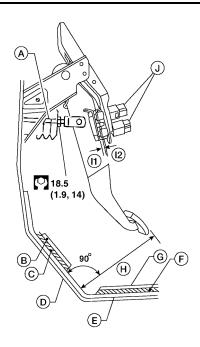
Disc Brake - Repair Limits

Unit: mm (in)

Brake model		CLZ25VE (Front)	AD9A (Rear)
Pad wear limit	Minimum thickness	2.0 (0.079)	2.0 (0.079)
	Maximum runout	0.07 (0.0028)	0.05 (0.0020)
Rotor repair limit	Minimum thickness	26.0 (1.02)	8.0 (0.31)
	Maximum uneven wear (measured at 8 positions)	0.015 (0.0006) or less	

Brake Pedal

Unit: mm (in)



WFIA0423E

Froe beight "L"*	M/T	164.1 - 174.1 (6.46 - 6.85)
Free height "H"*	A/T	173.1 - 183.1 (6.81 - 7.21)
Pedal height (with engine running, brake pedal force 490 N	M/T	More than 84 (3.31)
(50 kg-f, 110 lb-f) "H"	A/T	More than 90.3 (3.55)
Clearance "I1" or "I2" between pedal stopper and threaded er ASCD switch	0.74 - 1.96 (0.0291 - 0.0772)	
Pedal play		3 - 11 (0.12 - 0.43)

^{*:} Measured from surface of dash reinforcement panel to surface of pedal pad

- B: Floor carpet
- C: Dash Insulator
- D: Floor Panel
- E: Dash reinforcement panel
- F: Dash insulator
- G: Floor carpet
- I1, I2: Gap
- J: Stop lamp switch and ASCD switch

A: Input rod

QUICK REFERENCE CHART: MAXIMA

2007

Refill Capacities				
Description		Capacity (approximate)		
		Liter	US measure	Imp measure
		75.6	20 gal	16 5/8 gal
Engine oil Drain and refill	With oil filter change	4.2	4 1/2 qt	3 3/4 qt
	Without oil filter change	4.0	4 1/4 qt	3 1/2 qt
Dry engine (engine overhaul)		4.6	4 7/8 qt	4 qt
Cooling system	With reservoir at MAX level	8.5	2 1/4 gal	1 7/8 gal
CVT fluid		10	10 5/8 qt	8 3/4 qt
Power steering fluid (PSF)		1.0	2 1/8 pt	1 3/4 pt
Air conditioning system refrigerant		0.55 ± 0.025 kg	1.21 ± 0.055 lb	1.21 ± 0.055 lb
Air conditioning system lubricant		150 m ℓ	5.03 fl oz	5.3 fl oz