	QUI	CK REFERENCE INDEX			1_
Edition: July 2005	Α	GENERAL INFORMATION	GI	General Information	
Revision: October 2006	В	ENGINE	EM	Engine Mechanical	از
Publication No. SM6E-1A34U1			LU	Engine Lubrication System	ii
			СО	Engine Cooling System	
			EC	Engine Control System	i
			FL	Fuel System	i
			EX	Exhaust System	Ī
			ACC	Accelerator Control System	Ī
	С	TRANSMISSION/	CL	Clutch	
		TRANSAXLE	MT	Manual Transaxle	ĪŁ
			AT	Automatic Transaxle	Ī
	D	DRIVELINE/AXLE	FAX	Front Axle	Ī۱
			RAX	Rear Axle	Ī
	Е	SUSPENSION	FSU	Front Suspension	Ī
			RSU	Rear Suspension	اآ
			WT	Road Wheels & Tires	
	F	BRAKES	BR	Brake System	i
			РВ	Parking Brake System	Ī
			BRC	Brake Control System	i
NISSAN	G	STEERING	PS	Power Steering System	įL
	Н	RESTRAINTS	SB	Seat Belts	Ī
MAXIMA		-	SRS	Supplemental Restraint System (SRS)	Ī
	T	BODY	BL	Body, Lock & Security System	i
MODEL A34 SERIES			GW	Glasses, Window System & Mirrors	i
			RF	Roof	il
			El	Exterior & Interior	iI
			IP	Instrument Panel	i
			SE	Seat	Ī
	J	AIR CONDITIONER	ATC	Automatic Air Conditioner	Ī
	K	ELECTRICAL	SC	Starting & Charging System	
			LT	Lighting System	İ١
			DI	Driver Information System	il
			WW	Wiper, Washer & Horn	
			BCS	Body Control System	Ī
			LAN	LAN System	Ĩ
			ΑV	Audio Visual, Navigation & Telephone System	ĺ
			ACS	Auto Cruise Control System	ĺ
			PG	Power Supply, Ground & Circuit Elements	ĺ
	L	MAINTENANCE	MA	Maintenance	Ī
	_				_

Alphabetical Index

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M INDEX

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FOREWORD

This manual contains maintenance and repair procedures for the 2006 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 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) 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 Please comment: What information should be included in NISSAN Service Manuals to better support you in servicing or repairing customer vehicles? DATE: _____ YOUR NAME: _____ _____ POSITION: _____ DEALER: _____ DEALER NO.: ____ ADDRESS: ___ _____ STATE/PROV./COUNTRY: _____ ZIP/POSTAL CODE: ____

QUICK REFERENCE CHART: MAXIMA

PFP:00000

Engine Tune-Up Data

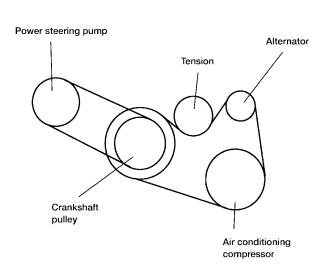
ELS001PU

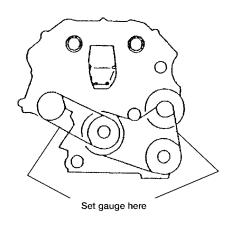
Cylinder arrangemen	Cylinder arrangement			V	'-6
Displacement				3,498 cm ³	(213.45 in ³)
Bore and stroke				95.5 x 81.4 mm (3.76 x 3.205 in)	
Valve arrangement				DOHC	
Firing order	Firing order			1-2-3	-4-5-6
Number of piston ring	ne	Compression			2
Number of pistorring	js	Oil			1
Number of main bear	rings				4
Compression ratio		,		10	.0:1
		Standard		1,275 kPa (13.0 cm²	² , 185 psi) / 300 rpm
Compression pressur	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)		BIO OF INTAKE ON TATION OF THE INTAKE OF OF THE INTAKE OF THE I	OC PBICO187E	
		l			Unit: degree
а	b	С	d	е	f
240°	238°	- 6°	64°	8°	52°

Spark Plugs (Double-Platinum Tipped)

Make	NGK
Standard type	PLFR5A-11
Hot type	PLFR4A-11
Cold type	PLFR6A-11
Gap (nominal)	1.1 mm (0.043 in)

Drive Belt Deflection and Tension





LBIA0076E

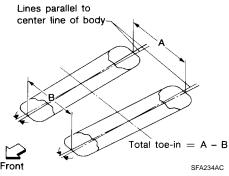
	Deflection adjustment		Unit: mm (in)	Tension adjustment*		Unit: N (kg, lb)
	Us	ed belt	New belt	Use	ed belt	New belt
	Limit	After adjustment	new beit	Limit	After adjustment	new beit
Alternator and air conditioning compressor	7 (0.28)	4.2 - 4.6 (0.17 - 0.18)	3.7 - 4.1 (0.15 - 0.16)	294 (30, 66)	730 - 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		United States	s and Canada	Mexico
Tire size	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		
Caster	Minimum	2°05′ (2.08°)		1°55′ (1.92°)
degree minute (decimal degree)	Nominal	2°50′ (2.83°)		2°40′ (2.67°)
	Maximum	3°35′ (3.58°)		3°25′ (3.42°)
	Left and right difference	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	0.5 (0.020)	
		Maximum	1.5 (0	0.059)	2.0 (0.080)
Angle (left plus right degree minute (dec degree)	Angle (left plus right)	Minimum	-	_	_
	degree minute (decimal	Nominal	2′ (0	2′ (0.03°) —	
	degree)	Maximum	-		
Wheel turning	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°)	_

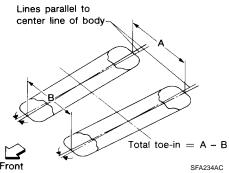
^{*1:} Fuel, radiator coolant and engine oil full. Spare tire, jack, hand tools and mats in designated positions.

^{*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°)
203.00	Maximum	-0° 68′ (-1.13°)	0° 30' (0.5°)



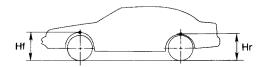
Distance (A – B) mm (in) Distance difference between RH and LH side mm (in) Angle (left plus right) Degree minute (Decimal deg		Minimum	2.3 (0.091)	1.3 (0.051)
	,	Nominal	3.8 (0.150)	2.8 (0.110)
		Maximum	5.3 (0.209)	4.3 (0.169)
	Distance difference	Minimum	-2.0 (-0.079)	
		Nominal	0 ((0)
	mm (in)	Maximum	2.0 (0	0.079)
		Minimum	0° 6′ (0.10°)	0° 3' (0.05°)
		Nominal	0° 10′ (0.17°)	0° 7' (0.12°)
	Dog. ooato (Doomiai dog. oo)	Maximum	0° 14′ (0.23°)	0° 11' (0.18°)
	1	1	1	

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

Wheelarch Height (Unladen*)

EES0025Q

Unit: mm (in)



SFA818A

Market	United States and Canada		Me	xico
Tire	225/55R17	245/45R18	225/55R17	245/45R18
Front (Hf)	738 (29.06)	737 (29.02)	787 (30.98)	761 (29.96)
Rear (Hr)	705 (27.76)	705 (27.76)	743 (29.25)	726 (28.58)

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

Brake

Unit: mm (in)

	Brake model		CLZ25VE disc brake
	Cylinder bore diameter		57.2 (2.25)
Front brake	Pad Length × width × thicknes	s	111.0 × 62.5 × 9.5 (4.37 × 2.46 × 0.37)
	Rotor outer diameter × th	ickness	320 × 28 (12.60 × 1.10)
	Brake model		AD9A disc brake
	Cylinder bore diameter		34.9 (1.374)
Rear brake	Pad Length × width × thicknes	s	83.0 × 33.0 × 8.5 (3.27 × 1.30 × 0.33)
	Rotor outer diameter × th	ickness	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	B. 1	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)

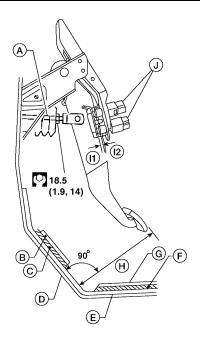
Disc Brake - Repair Limits

Unit: mm (in)

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

Brake Pedal

Unit: mm (in)



WFIA0423E

Free height "H"*	M/T	164.1 - 174.1 (6.46 - 6.85)
Tree neight Tr	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
- A: Input rod
- 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

QUICK REFERENCE CHART: MAXIMA

2006

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
Manual transaxle fluid (MTF)		2.2	2 3/8 qt	2 qt
Transaxle fluid (ATF)	5 A/T	7.3	7 3/4 qt	6 3/8 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