

NISSAN MAXIMA

MODEL A32 SERIES

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FOREWORD

This manual contains maintenance and repair procedures for the 1996 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.



NISSAN MOTOR CO., LTD.

Overseas Service Department
Tokyo, Japan

QUICK REFERENCE CHART: MAXIMA 1996

ENGINE TUNE-UP DATA

Engine model		VQ30DE		
Firing order		1-2-3-4-5-6		
Idle speed	rpm	M/T	625±50	
		A/T (in "N" position)	700±50	
Ignition timing (degree BTDC at idle speed)		M/T: 15°±2° A/T:		
CO% at idle		Idle mixture screw is preset and sealed at factory.		
Drive belt deflection (Cold)		mm (in)	Used belt	
Alternator		Limit	Deflection after adjustment	
			Deflection of new belt	
	With air conditioner compressor	7 (0.28)	4.2 - 4.6 (0.165 - 0.181)	3.8 - 4.1 (0.150 - 0.161)
	Without air conditioner compressor	10 (0.39)	6.3 - 6.9 (0.248 - 0.272)	5.8 - 6.2 (0.228 - 0.244)
	Power steering oil pump	11 (0.43)	7.3 - 8 (0.287 - 0.315)	6.5 - 7 (0.256 - 0.276)
Applied pressed force		N (kg, lb)	98 (10, 22)	
Radiator cap relief pressure		kPa (kg/cm ² , psi)	78 - 98 (0.8 - 1.0, 11 - 14)	
Cooling system leakage testing pressure		kPa (kg/cm ² , psi)	157 (1.6, 23)	
Compression pressure	Standard	1,275 (13.0, 185)/300		
	Minimum	981 (10.0, 142)/300		
Spark plug	Type	PFR5G-11		
	Gap	mm (in)	1.0 - 1.1 (0.039 - 0.043)	

CLUTCH PEDAL

		Unit: mm (in)
Pedal height	168 - 175 (6.61 - 6.89)	
Pedal free play	1 - 3 (0.04 - 0.12)	

FRONT WHEEL ALIGNMENT (Unladen*)

Camber	Degree minute (Decimal degree)	Minimum	-1°00' (-1.00°)
		Nominal	-0°15' (-0.25°)
		Maximum	0°30' (0.50°)
		Left and right difference	45' (0.75°) or less
Caster	Degree minute (Decimal degree)	Minimum	2°00' (2.00°)
		Nominal	2°45' (2.75°)
		Maximum	3°30' (3.50°)
		Left and right difference	45' (0.75°) or less
Total toe-in	Distance (A - B) mm (in)	Minimum	1 (0.04)
		Nominal	2 (0.08)
		Maximum	3 (0.12)
		Angle (left plus right) Degree minute (Decimal degree)	11' (0.18°)
Wheel turning angle (Full turn)	Degree minute (Decimal degree)	Minimum	36°00' (36.00°)
		Nominal	39°30' (39.50°)
		Maximum	40°30' (40.50°)
		Nominal	32°00' (32.00°)

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

REAR WHEEL ALIGNMENT (Unladen*)

Camber	Degree minute (Decimal degree)	Minimum	-1°45' (-1.75°)
		Nominal	-1°00' (-1.00°)
		Maximum	-0°15' (-0.25°)
Total toe-in	Distance (A - B) mm (in)	Minimum	-3 (-0.12)
		Nominal	1 (0.04)
		Maximum	5 (0.20)
Angle (left plus right)	Degree minute (Decimal degree)	Minimum	-32' (-0.53°)
		Nominal	11' (0.18°)
		Maximum	52' (0.87°)

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

BRAKE

		Unit: mm (in)
Front brake	Pad wear limit	2.0 (0.079)
	Rotor repair limit	20.0 (0.787)
Rear brake	Pad wear limit	1.5 (0.059)
	Rotor repair limit	8.0 (0.315)
Pedal free height	M/T: 158 - 165 (6.22 - 6.50) A/T: 167 - 174 (6.57 - 6.85)	
Pedal depressed height*1	M/T: 70 (2.76) A/T: 75 (2.95)	
Parking brake	Number of notches*2	10 - 11

*1 Under force of 490 N (50 kg, 110 lb) with engine running

*2 At pulling force: 196 N (20 kg, 44 lb)

REFILL CAPACITIES

Unit		Liter	US measure
Fuel tank		70	18-1/2 gal
Coolant with reservoir		8.5	9 qt
Engine	With oil filter	4.0	4-1/4 qt
	Without oil filter	3.7	3-7/8 qt
Transaxle	M/T	RSF50V	4.3 - 4.5
	A/T	RSF50A	4.5 - 4.8
Power steering system		1.1	1-1/8 qt
Air conditioning system	Refrigerant	0.60 - 0.70 kg	1.32 - 1.54 lb
	Compressor oil	0.25	8.5 fl oz