

# NISSAN MAXIMA

MODEL A32 SERIES

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# FOREWORD

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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.

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## 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	
		Limit	Deflection after adjustment
Alternator			Deflection of new belt
	With air conditioner compressor	7 (0.28)	4.2 - 4.6 (0.165 - 0.181)
Without air conditioner compressor	10 (0.39)	6.3 - 6.9 (0.248 - 0.272)	3.8 - 4.1 (0.150 - 0.161)
Power steering oil pump	11 (0.43)	7.3 - 8 (0.287 - 0.315)	5.8 - 6.2 (0.228 - 0.244)
Applied pressed force	N (kg, lb)	98 (10, 22)	
Radiator cap relief pressure	kPa (kg/cm <sup>2</sup> , psi)	78 - 98 (0.8 - 1.0, 11 - 14)	
Cooling system leakage testing pressure	kPa (kg/cm <sup>2</sup> , psi)	157 (1.6, 23)	
Compression pressure	Standard	1,275 (13.0, 185)/300	
	kPa (kg/cm <sup>2</sup> , psi)/rpm	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	Minimum	-1°00' (-1.00°)
	Nominal	-0°15' (-0.25°)
	Maximum	0°30' (0.50°)
Degree minute (Decimal degree)	Left and right difference	45' (0.75°) or less
Caster	Minimum	2°00' (2.00°)
	Nominal	2°45' (2.75°)
	Maximum	3°30' (3.50°)
Degree minute (Decimal degree)	Left and right difference	45' (0.75°) or less
Total toe-in	Minimum	1 (0.04)
	Nominal	2 (0.08)
	Maximum	3 (0.12)
Distance (A - B)		
	mm (in)	
Angle (left plus right)	Minimum	11' (0.18°)
	Nominal	22' (0.37°)
	Maximum	32' (0.53°)
Degree minute (Decimal degree)		
Wheel turning angle (Full turn)	Minimum	36°00' (36.00°)
	Nominal	39°30' (39.50°)
	Maximum	40°30' (40.50°)
Degree minute (Decimal degree)		
Inside		
Degree minute (Decimal degree)		
Outside		
Degree minute (Decimal degree)		
	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	Minimum	-1°45' (-1.75°)
	Nominal	-1°00' (-1.00°)
	Maximum	-0°15' (-0.25°)
Degree minute (Decimal degree)		
Total toe-in	Minimum	-3 (-0.12)
	Nominal	1 (0.04)
	Maximum	5 (0.20)
Distance (A - B)		
	mm (in)	
Angle (left plus right)	Minimum	-32' (-0.53°)
	Nominal	11' (0.18°)
	Maximum	52' (0.87°)
Degree minute (Decimal degree)		

\* 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	9-1/8 - 9-1/2 pt
	A/T	RSF50A	4.5 - 4.8	9-1/2 - 10-1/8 pt
Power steering system		9.4	10 qt	
Air conditioning system	Refrigerant	1.1	1-1/8 qt	
	Compressor oil	0.60 - 0.70 kg	1.32 - 1.54 lb	
		0.25	8.5 fl oz	