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NISSAN MAXIMA

MODEL A32 SERIES

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ALPHABETICAL INDEX -

FOREWORD

This manual contains maintenance and repair procedures for the 1998 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.



Overseas Service Department Tokyo, Japan



NISSAN 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 photocopy this form and type or print your comments below. Mail or fax to:

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SERVICE MANUAL	Model:	Year:
		Production Date:
•	issues or problems in detail:	
Page number(s)	Note: Please inc	lude a copy of each page, marked with your comments
		
Are the trouble diag	nosis procedures logical and ea	sy to use? (circle your answer) YES NO
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Please describe the i	ssue or problem in detail:	
What information sh		rvice Manuals to better support you in servicing o
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CITY:	STATE/PROV./COUNT	RY: ZIP/POSTAL CODE:
		1693

QUICK REFERENCE CHART: MAXIMA [

ENGINE TUNE-UP DATA

Engine model	VQ30DE				
Firing order	1-2-3-4-5-6				
	M/T				
ldle speed rpm	A/T (in "N" position)		70 0±50		
Ignition timing (degree	BTDC at idle speed)	M/T: A/T: 15°±2°			
CO% at idle		idle mi	kture screw is pro sealed at factory		
Drive belt deflection (Cold	l) mm (in)	Use	d belt		
Aiternator		Límit	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 pun	n p	11 (0.43)	7.3 - 8 (0.287 - 0.315)	6.5 - 7 (0.256 - 0.276)	
Applied pressed force	98 (10, 22)				
Radiator cap relief pressu	78 - 98 (0.8 - 1.0, 11 - 14)				
Cooling system leakage testing pressure kPa (kg/cm², psi)		157 (1.6, 23)			
Compression pressure	Standard	1,275 (13.0, 185)/300			
kPa (kg/cm², psi)/rpm	kPa (kg/cm², psi)/rpm Minimum		981 (10.0, 142)/300		
Spark plug	Туре	PFR5G-11			
Shork hind	1.0 - 1.1 (0.039 - 0.043)				

CLUTCH PEDAL

	Unit: mm (in)
Pedal height	168 - 175 (6.61 - 6.89)
Pedal free play	9 - 16 (0.35 - 0.63)

FRONT WHEEL ALIGNMENT (Unladen*

Camber		Minimum	~1°00′ (-1.00°)	
		Nominal	-0°15′ (-0.25°)	
	Degree minute	Maximum	0°30′ (0.50°)	
	(Decimal degree)	Left and right difference	45' (0.75°) or less	
Caster	'	Minimum	2°00′ (2.00°)	
		Nominal	2°45′ (2.75°)	
	Degree minute	Maximum	3°30′ (3.50°)	
	(Decimal degree)	Left and right difference	45' (0.75°) or less	
Total toe-in Distance (A = B)		Minimum	1 (0.04)	
		Nominal	2 (0.08)	
·	mm (in)	Maximum	3 (0.12)	
Angle (left	plus right)	Minimum	5.5′ (0.09°)	
Aligia (leit	Degree minute	Nominal	11′ (0.18°)	
	(Decimal degree)	Maximum	16′ (0.27°)	
Wheel turning a	ngle (Full tum)	Minimum	36°00' (36.00°)	
Inside	_	Nominal	39°30′ (39.50°)	
	Degree minute (Decimal degree)	Maximum	40°30′ (40.50°)	
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°)
Degree minute	Nominal	-1°00′ (-1.00°)
(Decimal degree)	Maximum	-0°15′ (-0.25°)
Total toe-in	Minimum	-3 (-0.12)
Distance (A - B)	Nominal	1 (0.04)
mm (in)	Maximum	5 (0.20)
Angle (left plus right)	Minimum	-16′ (-0.26°)
Degree minute	Nominal	5.5′ (0.09°)
(Decimal degree)	Maximum	26' (0.43°)

Fuel, radiator coolant and engine oil full.

Spare tire, jack, hand tools and mats in designated positions.

BRAKE

	Unit: mm (i
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		
Coolant wit	Coolant with reservoir		8.5	9 qt	
Engine With oil filter Without oil filter			4.0	4-1/4 qt	
		ter	3.7	3-7/8 qt	
Transaxle	M/T	RS5F50V	4.3 - 4.5	9-1/8 - 9-1/2 pt	
	I MA/ I	RS5F50A	4.5 - 4.8	9-1/2 - 10-1/8 pt	
	A/T	RE4F04A/V	9.4	10 qt	
Power steering system			1.1	1-1/8 qt	
Air conditioning system Compressor oil		Refrigerant	0.60 - 0.70 kg	1.32 - 1.54 lb	
			0.2	6.8 fl oz	

TEST VALUE AND TEST LIMIT (GST ONLY — NOT APPLICABLE TO CONSULT-II)

The following is the information specified in Mode 6 of SAE J1979.

The test value is a parameter used to determine whether a system/circuit diagnostic test is "OK" or "NG" while being monitored by the ECM during self-diagnosis. The test limit is a reference value which is specified as the maximum or minimum value and is compared with the test value being monitored.

Items for which these data (test value and test limit) are displayed are the same as SRT code items.

These data (test value and test limit) are specified by Test ID (TID) and Component ID (CID) and can be displayed on the GST screen.

: Applicable ·: Not applicable

						. Applicable	: Not appilcable
	Self-diagnostic test item		Test value				
SRT item		DTC	(GST display)		Te s t limit	Application	Unit
			TID	CID			
CATALYST	Three way catalyst function	P0420	01H	01H	Max.	Χ	ı
ONTALIOT	Till ee way catalyst fulletion	P0420	02H	81H	Min.	Χ	-
	EVAP control system (Small leak)	P0440	05H	03H	Max.	Χ	-
EVAP SYSTEM	,	P1440	05H	03H	Max.	Χ	-
	EVAP control system purge flow monitoring	P1447	06H	83H	Min.	Χ	mV
		P0133	09H	04H	Max.	Χ	ms
		P0131	OAH	84H	Min.	Χ	mV
	Heated oxygen sensor 1	P0130	0BH	04H	Max.	Χ	mV
		P0132	0CH	04H	Max.	Χ	mV
H02S		P0134	ODH	04H	Max.	Χ	S
		P0139	19H	86H	Min.	Χ	mV/500ms
	Heated oxygen sensor 2	P0137	1AH	86H	Min.	Χ	mV
		P0140	1BH	06H	Max.	Χ	mV
		P0138	1CH	06H	Max.	Χ	mV
	Heated oxygen sensor 1 heater	P0135	29H	08H	Max.	Χ	mV
HO2S HTR		P0135	2AH	88H	Min.	Χ	mV
11023 1111	Heated oxygen sensor 2 heater	P0141	2DH	OAH	Max.	Χ	mV
		P0141	2EH	8AH	Min.	Χ	mV
	EGR function	P0400	31H	8CH	Min.	Χ	ပ္
		P0400	32H	8CH	Min.	Χ	°C
		P0400	33H	8CH	Min.	Χ	Ω
EGR SYSTEM*1		P0400	34H	8CH	Min.	Χ	ပ္
		P1402	35H	0CH	Max.	Χ	Ç
	EGRC-BPT valve function	P0402	36H	0CH	Max.	Χ	ı
	EURO DEL VALVE TURICCION	P0402	37H	8CH	Min.	Χ	ı

^{*1 :} Except models V41 VG33E engine 2001MY and V41 VG33E engine 200