

NISSAN

STANZA

ALTIMA

MODEL U13 SERIES

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FOREWORD

This manual contains maintenance and repair procedures for the 1996 Nissan STANZA ALTIMA.

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 NORTH AMERICA, INC.

Technical Information Department
Torrance, California

QUICK REFERENCE CHART: STANZA ALTIMA 1996

ENGINE TUNE-UP DATA

Engine model	KA24DE		
Firing order	1-3-4-2		
Idle speed	rpm		
M/T		700 ± 50	
A/T (in "N" position)		700 ± 50	
Ignition timing (degree B.T.D.C. at idle speed)	20° ± 2°		
CO% at idle	Idle mixture screw is preset and sealed at factory		
Valve clearance (Hot)	mm (in)		
Intake		0.31 - 0.39 (0.012 - 0.015)	
Exhaust		0.33 - 0.41 (0.013 - 0.016)	
Spark plug			
Type	Standard	BKR6E-11	
	Cold	BKR6E-11	
		BKR7E-11	
Gap	mm (in)	1.0 - 1.1 (0.039 - 0.043)	
Drive belt deflection (Cold)	mm (in)	Used belt	
		Limit	Deflection after adjustment
Generator & power steering oil pump		8 (0.31)	6 - 7 (0.24 - 0.28)
Air conditioner compressor		10 (0.39)	7 - 8 (0.28 - 0.31)
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	1,226 (12.5, 178)/300	
kPa (kg/cm ² , psi)/rpm	Minimum	1,030 (10.5, 149)/300	
Tightening torque		N·m	kg·m
Spark plug		20 - 29	2.0 - 3.0
Oil pan drain plug		29 - 39	3.0 - 4.0

REAR WHEEL ALIGNMENT (Unladen*)

Camber	Minimum	-2°00' (-2.00°)
	Nominal	-1°15' (-1.25°)
	Maximum	-0°30' (-0.50°)
Total toe-in	Minimum	1 (0.04)
Distance (A - B)	Nominal	2 (0.08)
	Maximum	3 (0.12)
Angle (left plus right)	Minimum	6' (0.10°)
	Nominal	12' (0.20°)
	Maximum	18' (0.30°)

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

BRAKE

Disc brake	Unit: mm (in)
Pad minimum thickness	2.0 (0.079)*1, 1.5 (0.059)*2
Rotor repair limit	
Minimum thickness	20.0 (0.787)*1, 8.0 (0.315)*2
Drum brake	
Lining minimum thickness	1.5 (0.059)
Drum repair limit	
Maximum inner diameter	230.0 (9.06)
Pedal free height	M/T: 169 - 179 (6.65 - 7.05) A/T: 177 - 187 (6.97 - 7.36)
Pedal depressed height*3	90 (3.54)
Parking brake	
Number of notches*4	7 - 8

*1 Front disc brake
*2 Rear disc brake
*3 Under force of 490N (50kg, 110lb) with engine running
*4 At pulling force: 196N (20kg, 44lb)

FRONT WHEEL ALIGNMENT (Unladen*)

Camber	Minimum	-0°50' (-0.83°)
	Nominal	-0°05' (-0.08°)
	Maximum	0°40' (0.67°)
Left and right difference		45' (0.75°)
Caster	Minimum	1°55' (1.92°)
	Nominal	2°40' (2.67°)
	Maximum	3°25' (3.42°)
Left and right difference		45' (0.75°)
Kingpin inclination	Minimum	13°20' (13.33°)
	Nominal	14°06' (14.08°)
	Maximum	14°50' (14.83°)
Total toe-in	Minimum	0 (0)
Distance (A - B)	Nominal	1 (0.04)
	Maximum	2 (0.08)
Angle (left plus right)	Minimum	0' (0.00°)
	Nominal	6' (0.10°)
	Maximum	12' (0.20°)
Wheel turning angle	Minimum	31°30' (31.50°)
Inside	Nominal	34°30' (34.50°)
	Maximum	35°30' (35.50°)
Outside	Nominal	28°36' (28.60°)

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

REFILL CAPACITIES

Unit	Liter	US measure
Fuel tank	60	15-7/8 gal
Coolant	With reservoir tank	7.8
	With oil filter	8-1/4 qt
Engine	Without oil filter	3.9
		4-1/8 qt
Transaxle	M/T	RS5F50A
	A/T	RS5F50V
		4.5 - 4.8
		9-1/2 - 10-1/8 pt
Power steering system		0.9
		1 qt
Air conditioning system	Lubricant	0.2
	Refrigerant*	0.7 - 0.8 kg
		1.54 - 1.76 lb

* R-134a

CLUTCH PEDAL

Pedal height	168 - 178 (6.61 - 7.01)
Pedal free play	1 - 3 (0.04 - 0.12)