NISSAN
STANZA
ALTIMA
MODEL U13 SERIES

QUICK REFERENCE INDEX

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.

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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	BKR5E-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		Deflection of new belt
		Limit	Deflection after adjustment	
Generator & power steering oil pump		8 (0.31)	6 - 7 (0.24 - 0.28)	5 - 6 (0.20 - 0.24)
Air conditioner compressor		10 (0.39)	7 - 8 (0.28 - 0.31)	6 - 7 (0.24 - 0.28)
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 kPa (kg/cm2, psi)/rpm	Standard	1,226 (12.5, 178)/300		
	Minimum	1,030 (10.5, 149)/300		
Tightening torque		N-m	kg-m	ft-lb
Spark plug		20 - 29	2.0 - 3.0	14 - 22
Oil pan drain plug		29 - 39	3.0 - 4.0	22 - 29

FRONT WHEEL ALIGNMENT (Unladen*)

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

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

REAR WHEEL ALIGNMENT (Unladen*)

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

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

BRAKE

Unit: mm (in)

Disc brake	
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)

REFILL CAPACITIES

Unit			Liter	US measure
Fuel tank			60	15-7/8 gal
Coolant	With reservoir tank		7.8	8-1/4 qt
Engine	With oil filter		3.9	4-1/8 qt
	Without oil filter		3.5	3-3/4 qt
Transaxle	M/T	RS5F50A	4.5 - 4.8	9-1/2 - 10-1/8 pt
		RS5F50V	4.3 - 4.5	9-1/8 - 9-1/2 pt
	A/T		9.4	10 qt
Power steering system			0.9	1 qt
Air conditioning system	Lubricant		0.2	6.8 fl oz
	Refrigerant*		0.7 - 0.8 kg	1.54 - 1.76 lb

* R-134a

CLUTCH PEDAL

Unit: mm (in)

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