

NISSAN 300ZX

MODEL Z32 SERIES

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FOREWORD

This manual contains maintenance and repair procedures for the 1996 Nissan 300ZX.

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: 300ZX 1996

ENGINE TUNE-UP DATA

Engine model		VG30DE	VG30DETT
Firing order		1-2-3-4-5-6	
Idle speed	M/T	700±50	700±50, 750±50*
	A/T (In "N" position)	770±50	750±50
Ignition timing (degree BTDC at idle speed)		10±2	15±2
CO% at idle		Idle mixture screw is preset and sealed at factory.	
Drive belt deflection (Cold)	mm (in)	Used belt deflection	
		Limit	Deflection after adjustment
Alternator		11.5 (0.453)	7 - 8 (0.28 - 0.31)
Air conditioner compressor		12.5 (0.492)	8 - 9 (0.31 - 0.35)
Power steering oil pump		19 (0.75)	12 - 13.5 (0.472 - 0.531)
Applied pressed force		98 (10, 22)	
Radiator cap relief pressure kPa (kg/cm ² , psi)		108 - 127 (1.1 - 1.3, 16 - 18)	
Cooling system leakage testing pressure kPa (kg/cm ² , psi)		157 (1.6, 23)	
Compression pressure	Standard	1,285 (13.1, 186)/300	1,177 (12.0, 171)/300
	kPa (kg/cm ² , psi) /rpm	981 (10.0, 142)/300	883 (9.0, 128)/300
Spark plug	Type (Standard)	PFR6B-11	
	Gap mm (in)	1.0 - 1.1 (0.039 - 0.043)	

*: For Canada

CLUTCH PEDAL

Engine		Unit: mm (in)
VG30DE		
Pedal height	197 - 207 (7.76 - 8.15)	
VG30DETT		
Pedal free play	1 - 3 (0.04 - 0.12)	

FRONT WHEEL ALIGNMENT (Unladen*)

Applied model		2 seater	2 + 2 seater
Camber	Minimum	-1°35' (-1.58°)	
	Nominal	-0°50' (-0.83°)	
	Maximum	-0°05' (-0.08°)	
	Degree minute (Decimal degree)	Left and right difference	
Caster	Minimum	8°55' (8.92°)	
	Nominal	9°40' (9.67°)	
	Maximum	10°25' (10.42°)	
	Degree minute (Decimal degree)	Left and right difference	
Total toe-in	Minimum	0 (0)	
	Nominal	1 (0.04)	
	Maximum	2 (0.08)	
	Degree minute (Decimal degree)	Left and right difference	
Angle (left plus right)	Minimum	0' (0.00°)	
	Nominal	5' (0.08°)	
	Maximum	11' (0.18°)	
	Degree minute (Decimal degree)	Left and right difference	
Wheel turning angle (Full turn)	Minimum	32°30' (32.50°)	
	Nominal	34°30' (34.50°)	
	Maximum	36°30' (36.50°)	
	Degree minute (Decimal degree)	Left and right difference	
Inside	Minimum	32°30' (32.50°)	
	Nominal	34°30' (34.50°)	
	Maximum	36°30' (36.50°)	
	Degree minute (Decimal degree)	Left and right difference	
Outside	Minimum	32°30' (32.50°)	
	Nominal	34°30' (34.50°)	
	Maximum	36°30' (36.50°)	
	Degree minute (Decimal degree)	Left and right difference	

* 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°36' (-1.60°)
		Nominal	-1°06' (-1.10°)
		Maximum	-0°36' (-0.60°)
Total toe-in	mm (in)	Minimum	0.4 (0.016)
		Nominal	2.4 (0.094)
		Maximum	4.4 (0.173)
Angle (left plus right)	Degree minute (Decimal degree)	Minimum	2' (0.03°)
		Nominal	13' (0.22°)
		Maximum	24' (0.40°)

* 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	28.0 (1.102)
Rear brake	
Pad wear limit	2.0 (0.079)
Rotor repair limit	16.0 (0.630)
Pedal free height	M/T model 186 - 196 (7.32 - 7.72)
	A/T model 195 - 205 (7.68 - 8.07)
Pedal depressed height*1	M/T model 100 (3.94) or more
	A/T model 105 (4.13) or more
Parking brake	
Number of notches*2	6 - 7

*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	72	19 gal
Coolant	9	9-1/2 qt
Engine	With oil filter	3.4
	Without oil filter	3.0
Transmission	M/T	2.8
	A/T	Non-turbocharger
		8-3/4 qt
Differential carrier	Turbocharger	8-5/8 qt
	Non-turbocharger	1.3
Power steering system	Turbocharger	1.8
	Non-turbocharger	1.3
Air conditioning system	Compressor oil	1-3/8 qt
	Refrigerant	0.20
		6.8 fl oz
		1.32 - 1.54 lb