

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

ENGINE TUNE-UP DATA

Engine model		VG30DE	VG30DETT
Firing order		1-2-3-4-5-6	
Idle speed	rpm	700±50	700±50, 750±50*
	M/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		N (kg, lb)	
		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	kPa (kg/cm ² , psi) /rpm	Standard	
		1,285 (13.1, 186)/300	1,177 (12.0, 171)/300
	Minimum	981 (10.0, 142)/300	883 (9.0, 128)/300
Spark plug	Type (Standard)	PFR8B-11	
	Gap	mm (in)	
		1.0 - 1.1 (0.039 - 0.043)	

*: For Canada

CLUTCH PEDAL

Unit: mm (in)

Engine	VG30DE	VG30DETT
Pedal height	197 - 207 (7.76 - 8.15)	183 - 193 (7.20 - 7.60)
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	
		45' (0.75°) or less	
Caster	Minimum	8°55' (8.92°)	
	Nominal	9°40' (9.67°)	
	Maximum	10°25' (10.42°)	
	Degree minute (Decimal degree)	Left and right difference	
		45' (0.75°) or less	
Total toe-in	Minimum	0 (0)	1 (0.04)
	Nominal	1 (0.04)	2 (0.08)
	Maximum	2 (0.08)	3 (0.12)
Distance (A - B) mm (in)	Minimum	0' (0.00°)	5' (0.08°)
	Nominal	5' (0.08°)	11' (0.18°)
	Maximum	11' (0.18°)	16' (0.27°)
	Degree minute (Decimal degree)	Left and right difference	
		45' (0.75°) or less	
Wheel turning angle (Full turn)	Minimum	32°30' (32.50°)	
	Nominal	34°30' (34.50°)	
	Maximum	36°30' (36.50°)	
Inside Degree minute (Decimal degree)	Minimum	32°30' (32.50°)	
	Nominal	34°30' (34.50°)	
Outside Degree minute (Decimal degree)	Minimum	32°30' (32.50°)	
	Nominal	34°30' (34.50°)	

* 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)
Distance (A - B)	mm (in)	Minimum	2' (0.03°)
		Nominal	13' (0.22°)
		Maximum	24' (0.40°)
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
		Turbocharger	8.2
Differential carrier	Non-turbocharger	1.3	
	Turbocharger	1.8	
Power steering system	1.3	1-3/8 qt	
Air conditioning system	Compressor oil	0.20	
	Refrigerant	0.60 - 0.70 kg	6.8 fl oz