

NISSAN 240SX

MODEL S14 SERIES

QUICK REFERENCE INDEX

GENERAL INFORMATION _____	GI
MAINTENANCE _____	MA
ENGINE MECHANICAL _____	EM
ENGINE LUBRICATION & _____ COOLING SYSTEMS	LC
ENGINE CONTROL SYSTEM _____	EC
ACCELERATOR CONTROL, FUEL & _____ EXHAUST SYSTEMS	FE
CLUTCH _____	CL
MANUAL TRANSMISSION _____	MT
AUTOMATIC TRANSMISSION _____	AT
PROPELLER SHAFT & _____ DIFFERENTIAL CARRIER	PD
FRONT AXLE & FRONT SUSPENSION _____	FA
REAR AXLE & REAR SUSPENSION _____	RA
BRAKE SYSTEM _____	BR
STEERING SYSTEM _____	ST
RESTRAINT SYSTEM _____	RS
BODY & TRIM _____	BT
HEATER & AIR CONDITIONER _____	HA
ELECTRICAL SYSTEM _____	EL
ALPHABETICAL INDEX _____	IDX

FOREWORD

This manual contains maintenance and repair procedures for the 1996 Nissan 240SX.

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: 240SX 1996

ENGINE TUNE-UP DATA

Engine model	KA24DE		
Firing order	1-3-4-2		
Idle speed rpm	700±50		
M/T	700±50		
A/T (in "N" position)	700±50		
Ignition timing (degree BTDC at idle speed)	20°±2°		
Idle "CO" (% at idle speed)	Idle mixture screw is preset and sealed at factory.		
Valve clearance (Hot) mm (in)	0.33 - 0.41 (0.013 - 0.016)		
Intake & Exhaust			
High tension cable resistance kΩ	Less than 30		
Spark plug			
Standard	PFR5C-11		
Type			
Cold	PFR6C-11		
	PFR7C-11		
Gap mm (in)	1.0 - 1.1 (0.039 - 0.043)		
Drive belt deflection (Cold) mm (in)	Used belt deflection		
	Limit	Deflection after adjustment	Deflection of new belt
Alternator	11 (0.43)	7 - 8 (0.28 - 0.31)	6 - 7 (0.24 - 0.28)
Air conditioner compressor	12 (0.47)	7.5 - 8.5 (0.295 - 0.335)	6.5 - 7.5 (0.256 - 0.295)
Power steering pump	13 (0.51)	7.5 - 8.5 (0.295 - 0.335)	6.5 - 7.5 (0.256 - 0.295)
Applied pressed force N (kg, lb)	98 (10, 22)		
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

CLUTCH PEDAL

Unit: mm (in)	
Pedal height	186 - 196 (7.32 - 7.72)
Pedal free play	1 - 3 (0.04 - 0.12)

FRONT WHEEL ALIGNMENT (Unladen*)

Camber	Minimum	-1°30' (-1.50°)
	Nominal	0°45' (-0.75°)
	Maximum	0°00' (0.00°)
	Left and right difference	45' (0.75°) or less
Caster	Minimum	6°00' (6.00°)
	Nominal	6°45' (6.75°)
	Maximum	7°30' (7.50°)
	Left and right difference	45' (0.75°) or less
Total toe-in	Minimum	1.5 (0.059)
	Nominal	2.5 (0.098)
	Maximum	3.5 (0.138)
Distance (A - B) mm (in)	Minimum	8' (0.13°)
	Nominal	14' (0.23°)
	Maximum	20' (0.33°)
Wheel turning angle (Full turn)	Minimum	39°00' (39.00°)
	Nominal	42°00' (42.00°)
	Maximum	43°00' (43.00°)
Inside	Minimum	33°10' (33.17°)
	Nominal	
Outside	Minimum	
	Nominal	

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

REAR WHEEL ALIGNMENT (Unladen*)

Camber	Minimum	-1°40' (-1.67°)
	Nominal	-1°10' (-1.17°)
	Maximum	-0°40' (-0.67°)
Total toe-in	Minimum	0 (0)
	Nominal	2.5 (0.098)
	Maximum	5.0 (0.196)
Distance (A - B) mm (in)	Minimum	0' (0.00°)
	Nominal	14' (0.23°)
	Maximum	28' (0.47°)
Angle (left plus right) Degree minute (Decimal degree)	Minimum	
	Nominal	
	Maximum	

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

BRAKE

Unit: mm (in)		
Disc brake	Front side	2.0 (0.079)
	Rear side	2.0 (0.079)
Pad repair limit	Front	18.0 (0.709)
	Rear	8.0 (0.315)
Rotor thickness repair limit	Front	181 - 191 (7.13 - 7.52)
	Rear	191 - 201 (7.52 - 7.91)
Pedal free height	M/T model	105 (4.13)
	A/T model	115 (4.53)
Pedal depressed height*1	Without ABS	125 (4.92)
	With ABS	125 (4.92)
Parking brake	Without ABS	7 - 9
	With ABS	
Number of notches*2		

*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
Engine model	KA24DE	
Fuel tank	65	17-1/8 gal
Coolant	With reservoir tank	6.7
	Without reservoir tank	7-1/8 qt
Engine	With oil filter	3.5
	Without oil filter	3.2
Transmission	M/T	3-3/8 qt
	A/T	5-1/4 pt
Differential carrier	R200	8-3/4 qt
	R200V	1.3±0.1
Power steering system		2-3/4±1/4 pt
		0.9
Air conditioning system	Lubricant	1 qt
	Refrigerant	0.25
	0.60 - 0.70 kg	8.5 fl oz
		1.32 - 1.54 lb