NISSAN 240SX

MODEL S14 SERIES

QUICK REFERENCE INDEX

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			
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)			
Intake & Exhaust	0.33 - 0.41 (0.013 - 0.016)		
High tension cable resistance kΩ	Less than 30		
Spark plug			
Type — Standard	PFR5C-11		
Type — Cold	PFR6C-11		
Type — Cold	PFR7C-11		
Gap mm (in)	1.0 - 1.1 (0.039 - 0.043)		
Drive belt deflection (Cold) mm (in)	Used belt deflection		Deflection of new belt
	Limit	Deflection after adjustment	
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°)
Degree minute (Decimal degree)	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°)
Degree minute (Decimal degree)	Left and right difference	45′ (0.75°) or less
Total toe-in	Minimum	1.5 (0.059)
Distance (A — B) mm (in)	Nominal	2.5 (0.098)
	Maximum	3.5 (0.138)
Angle (left plus right)	Minimum	8′ (0.13°)
	Nominal	14′ (0.23°)
Degree minute (Decimal degree)	Maximum	20′ (0.33°)
Wheel turning angle (Full turn)	Minimum	39°00′ (39.00°)
Inside	Nominal	42°00′ (42.00°)
Degree minute (Decimal degree)	Maximum	43°00′ (43.00°)
Outside Degree minute (Decimal degree)	Nominal	33°10′ (33.17°)

* 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°)
Degree minute (Decimal degree)	Maximum	–0°40′ (–0.67°)
Total toe-in	Minimum	0 (0)
Distance (A — B) mm (in)	Nominal	2.5 (0.098)
	Maximum	5.0 (0.196)
Angle (left plus right)	Minimum	0′ (0.00°)
	Nominal	14′ (0.23°)
Degree minute (Decimal degree)	Maximum	28′ (0.47°)

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

BRAKE

Unit: mm (in)

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

*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	7-1/8 qt
Engine	With oil filter	3.5	3-3/4 qt
	Without oil filter	3.2	3-3/8 qt
Transmission	M/T	2.5	5-1/4 pt
	A/T	8.3	8-3/4 qt
Differential carrier	R200	1.3±0.1	2-3/4±1/4 pt
	R200V	1.3±0.1	2-3/4±1/4 pt
Power steering system		0.9	1 qt
Air conditioning system	Lubricant	0.25	8.5 fl oz
	Refrigerant	0.60 - 0.70 kg	1.32 - 1.54 lb