

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 1998 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



PLEASE HELP MAKE THIS SERVICE MANUAL BETTER!

Your comments are important to NISSAN and will help us to improve our Service Manuals.
Use this form to report any issues or comments you may have regarding our Service Manuals.
Please photocopy this form and type or print your comments below. Mail or fax to:

Nissan North America, Inc.
Technical Service Information
39001 Sunrise Drive, P.O. Box 9200
Farmington Hills, MI USA 48331
FAX: (810) 488-3910

SERVICE MANUAL: Model: _____ Year: _____

PUBLICATION NO. (Please photocopy back cover): _____

VEHICLE INFORMATION VIN: _____ **Production Date:** _____

Please describe any issues or problems in detail:

Page number(s) _____ *Note: Please include a copy of each page, marked with your comments.*

Are the trouble diagnosis procedures logical and easy to use? (circle your answer) YES NO

If no, what page number(s)? _____ *Note: Please include a copy of each page, marked with your comments.*

Please describe the issue or problem in detail: _____

Is the organization of the manual clear and easy to follow? (circle your answer) YES NO

Please comment: _____

What information should be included in NISSAN Service Manuals to better support you in servicing or repairing customer vehicles?

DATE: _____ **YOUR NAME:** _____ **POSITION:** _____

DEALER: _____ **DEALER NO.:** _____ **ADDRESS:** _____

CITY: _____ **STATE/PROV./COUNTRY:** _____ **ZIP/POSTAL CODE:** _____

QUICK REFERENCE CHART: 240SX 1998

ENGINE TUNE-UP DATA

Engine model	KA24DE		
Firing order	1-3-4-2		
Idle speed rpm	700±50		
M/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		
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	192 - 202 (7.56 - 7.95)
Pedal free play	9 - 16 (0.35 - 0.63)

FRONT WHEEL ALIGNMENT (Unladen*)

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

REAR WHEEL ALIGNMENT (Unladen*)

Camber	Degree minute (Decimal degree)	Minimum	-1°40' (-1.67°)
		Nominal	-1°10' (-1.17°)
		Maximum	-0°40' (-0.67°)
		Left and right difference	45' (0.75°) or less
Total toe-in	Distance (A - B) mm (in)	Minimum	0 (0)
		Nominal	2.5 (0.098)
		Maximum	5.0 (0.196)
		Left and right difference	0' (0.00°)
Angle (left plus right)	Degree minute (Decimal degree)	Minimum	14' (0.23°)
		Nominal	14' (0.23°)
		Maximum	28' (0.47°)
		Left and right difference	45' (0.75°) or less

* 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	20.0 (0.787)
	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	100 (3.94)
	With ABS	110 (4.33)
A/T model	Without ABS	115 (4.53)
	With ABS	115 (4.53)
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		
Coolant	With reservoir tank	6.9	7-1/4 qt
Engine	With oil filter	3.8	4 qt
	Without oil filter	3.5	3-3/4 qt
Transmission	M/T	2.5	5-1/4 pt
	A/T	8.3	8-3/4 qt
Differential carrier	R200	1.2 - 1.4	2-1/2 - 3 pt
	R200V	1.2 - 1.4	2-1/2 - 3 pt
Power steering system	0.9		
Air conditioning system	Lubricant	0.25	8.5 fl oz
	Refrigerant	0.60 - 0.70 kg	1.32 - 1.54 lb

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

TEST VALUE AND TEST LIMIT (GST ONLY — NOT APPLICABLE TO CONSULT-II)

The following is the information specified in Mode 6 of SAE J1979.

The test value is a parameter used to determine whether a system/circuit diagnostic test is “OK” or “NG” while being monitored by the ECM during self-diagnosis. The test limit is a reference value which is specified as the maximum or minimum value and is compared with the test value being monitored.

Items for which these data (test value and test limit) are displayed are the same as SRT code items.

These data (test value and test limit) are specified by Test ID (TID) and Component ID (CID) and can be displayed on the GST screen.

: Applicable *: Not applicable

SRT item	Self-diagnostic test item	DTC	Test value (GST display)		Test limit	Application	Unit
			TID	CID			
CATALYST	Three way catalyst function	P0420	01H	01H	Max.	X	—
		P0440	05H	03H	Max.	X	—
EVAP SYSTEM	EVAP control system (Small leak)	P1440	05H	03H	Max.	X	—
	EVAP control system purge flow monitoring	P1447	06H	83H	Min.	X	mV
H02S	Heated oxygen sensor 1	P0133	09H	04H	Max.	X	ms
		P0131	0AH	84H	Min.	X	mV
		P0130	0BH	04H	Max.	X	mV
		P0132	0CH	04H	Max.	X	mV
		P0134	0DH	04H	Max.	X	s
	Heated oxygen sensor 2	P0139	19H	86H	Min.	X	mV/500ms
		P0137	1AH	86H	Min.	X	mV
		P0140	1BH	06H	Max.	X	mV
		P0138	1CH	06H	Max.	X	mV
		P0135	29H	08H	Max.	X	mV
H02S HTR	Heated oxygen sensor 1 heater	P0135	2AH	88H	Min.	X	mV
	Heated oxygen sensor 2 heater	P0141	2DH	0AH	Max.	X	mV
		P0141	2EH	8AH	Min.	X	mV
EGR SYSTEM	EGR function	P0400	31H	8CH	Min.	X	°C
		P0400	32H	8CH	Min.	X	°C
		P0400	33H	8CH	Min.	X	°C
		P0400	34H	8CH	Min.	X	°C
		P1402	35H	0CH	Max.	X	°C
	EGRC-BPT valve function	P0402	36H	0CH	Max.	X	—
		P0402	37H	8CH	Min.	X	—