



1980 DATSUN 280ZX

SERVICE MANUAL





DATSUN 280ZX

Model S130 Series

FOREWORD

This service manual has been prepared primarily for the purpose of assisting service personnel in providing effective service and maintenance of the 1980 DATSUN 280ZX.

This manual includes procedures for maintenance, adjustments, removal and installation, disassembly and assembly of components, and trouble-shooting.

All information, illustrations and specifications contained in this manual are based on the latest product information available at the time of publication. If your DATSUN model differs from the specifications contained in this manual, consult your NISSAN/DATSUN dealer for information.

The right is reserved to make changes in specifications and methods at any time without notice.

NISSAN MOTOR CO., LTD.

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QUICK REFERENCE INDEX

(GENERAL INFORMATION	- GI
(MAINTENANCE	··MA
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(ENGINE LUBRICATION & COOLING SYSTEMS	LC
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(BRAKE SYSTEM	.∙BR
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(BODY	∙BF
(HEATER & AIR CONDITIONER	-HA
	ELECTRICAL SYSTEM	··EL
	Accordingly, anyone using service procedure	

THE MISSAN must first completely suffice hin



HOW TO USE THIS MANUAL

- This Service Manual is designed as a guide for servicing cars.
- ▶ This manual is divided into 19 sections. The first half of the manual presents sections which concern the engine, and the second half presents sections which deal with the chassis and body.
- A QUICK REFERENCE INDEX is provided on the first page. Refer to this index along with the index of the particular section you wish to consult.
- ▶ The first page of each section lists the contents and gives the page numbers for the respective topics.
- SERVICE DATA AND SPECIFICATIONS are contained in each section.
- ▶ TROUBLE DIAGNOSES AND CORRECTIONS are also included in each section. This feature of the manual lists the likely causes of trouble and recommends the appropriate corrective actions to be taken.
- ▶ A list of SPECIAL SERVICE TOOLS is included in each section. The special service tools are designed to assist you in performing repair safely, accurately and quickly. For information concerning how to obtain special service tools, write to the following address:

Kent-Moore Corporation 29784 Little Mack Roseville, Michigan 48066 Kent-Moore of Canada, Ltd. 2395 Cawthra Mississauga, Ontario Canada L5A 3P2

- ▶ The measurements given in this manual are primarily expressed with the SI unit (International System of Unit), and alternately expressed in the metric system and in the yard/pound system.
- ▶ The back cover of the manual provides maintenance data for quick reference.
- In the text, the following abbreviations are used:

S.D.S.: Service Data and Specifications

(T):

Left Hand, Right Hand L.H., R.H..

Manual Transmission, Automatic Transmission M/T, A/T: Tightening Torque

▶ The captions CAUTION and WARNING warn you of steps that must be followed to prevent personal injury and/or damage to some part of the car.



IMPORTANT SAFETY NOTICE

The proper performance of service is essential for both the safety of the mechanic and the efficient functioning of the car.

The service methods in this Service Manual are described in such a manner that the service may be performed safely and accurately.

Special service tools have been designed to permit safe and proper performance of service. Be sure to use them.

Service varies with the procedures used, the skills of the mechanic and the tools and parts available. Accordingly, anyone using service procedures, tools or parts which are not specifically recommended by NISSAN must first completely satisfy himself that neither his safety nor the car's safety will be jeopardized by the service method selected.

INCH TO METRIC CONVERSION TABLE (Rounded-off for automotive use)

inches	mm	inches	mm
.100	2.54	.610	15.49
.110	2.79	.620	15.75
.120	3.05	.630	16.00
.130	3.30	.640	16.26
.140	3.56	.650	16.51
.150	3.81	.660	16.76
.160	4.06	.670	17.02
.170	4.32	.680	17.27
.180	4.57	.690	17.53
.190	4.83	.700	17.78
.200	5.08	.710	18.03
.210	5.33	.720	18.29
.220	5.59	.730	18.54
.230	5.84	.740	18.80
.240	6.10	.750	19.05
.250	6.35	.760	19.30
.260	6.60	.770	19.56
.270	6.86	.780	19.81
.280	7.11	.790	20.07
.290	7.37	.800	20.32
.300	7.62	.810	20.57
.310	7.87	.820	20.83
.320	8.13	.830	21.08
.330	8.38	.840	21.34
.340	8.64	.850	21.59
.350	8.89	.860	21.84
.360	9.14	.870	22.10
.370	9.40	.880	22.35
.380	9.65	.890	22.61
.390	9.91	.900	22.86
.400	10.16	.910	23.11
.410	10.41	.920	23.37
.420	10.67	.930	23.62
.430	10.92	.940	23.88
.440	11.18	.950	24.11
.450	11.43	.960	24.38
.460	11.68	.970	24.64
.470	11.94	.980	24.89
.480	12.19	.990	25.15
.490	12.45	1.000	25.40
.500	12.70	2.000	50.80
.510	12.95	3.000	76.20
.520	13.21	4.000	101.60
.530	13.46	5.000	127.00
.540	13.72	6.000	152.40
.550	13.97	7.000	177.80
.560	14.22	8.000	203.20
.570	14.48	9.000	228.60
.580	14.73	10.000	254.00
.590	14.99	20.000	508.00
.600	15.24		

METRIC TO INCH CONVERSION TABLE

(Rounded-off for automotive use)

mm	inches	mm	inches
1	.0394	51	2.008
2	.079	52	2.047
3	.118	53	2.087
4	.157	54	2.126
5	.197	55	2.165
6	.236	56	2.205
7	.276	57	2.244
8	.315	58	2.283
9	.354	59	2.323
10	.394	60	2.362
11	.433	61	2.402
12	472	62	2.441
13	.512	63	2.480
14	.551	64	2.520
15	.591	65	2.559
16	.630	66	2.598
17	.669	67	2.638
18	.709	68	2.677
19	.748	69	2.717
20	.787	70	2.756
21	.827	71	2.795
22	.866	72	2.835
23	.906	73	2.874
24	.945	74	2.913
25	.984	75	2.953
26	1.024	76	2.992
27	1.063	77	3.031
28	1.102	78	3.071
29	1.142	79	3.110
30	1.181	80	3.150
31	1.220	81	3.189
32	1.260	82	3.228
33	1.299	83	3.268
34	1.339	84	3.307
35	1.378	85	3.346
36	1.417	86	3.386
37	1.457	87	3.425
38	1.496	88	3.465
39	1.535	89	3.504
40	1.575	90	3.543
41	1.614	91	3.583
42	1.654	92	3.622
43	1.693	93	3.661
44	1.732	94	3.701
45	1.772	95	3.740
46	1.811	96	3.780
47	1.850	97	3.819
48	1,890	98	3.858
49	1.929	99	3.898
50	1.969	100	3.937

DUICK REFERENCE CHART: 280ZX

ENGINE TUNE-UP DATA

			0.116	Non-Ca	lifornia
			California	For U.S.A.	For Canada
Engine model				L28E	
Firing order				1-5-3-6-2-4	
	M/	Т		700 ±100	
Idle speed rpm	A/	T	700	±100 (in "D" positi	on)
Ignition timing * (degree B.T.D.C, at i	dle spec	d)		10 ±2°	
"CO" % at idle	%		Idle mixture screw is preset and sealed at factory.	1.0 ±0.8 (No air, with full enrichment)	5.0 ±1.0 (With full enrichment)
B.C.D.D. operating pressu [At sea level] kPa (mm		g)	-70.6 ±2.7 (-530 ±20, -20.87 ±0.79)	-76.0 ±2.7 (-570 ±20, -22.44 ±0.79)	-74.6 ±2.7 (-560 ±20, -22.05 ±0.79)
Valve clearance (Hot)	Intake			0.25 (0.010)	
mm (in)	Exhau	st		0.30 (0.012)	
Drive belt deflection [Applied pressed force mm lin] 98N (10 kg, 22 lb)]		8 - 12 (0.31 - 0.47)			
Radiator cap relief pressu kPa (kg/c)		88 (0.9, 13)	
Cooling system leakage te pressure kPa (kg/c)		157 (1.6, 23)	
Compression pressure	Stand	ard	1	,177 (12.0, 171)/350	
kPa (kg/cm ² , psi)/rpm	Minim	um		883 (9.0, 128)/350	
High tension cable resistar	nce kΩ			Less than 30	
Spark plug Type			BP6E	S-11	BPR6ES-11
Gap	mm (i	n)	1	.0 - 1.1 (0.039 - 0.04	3)
Battery Type			N5	oz	N70Z
Capacity	V-AH		12-	60	12 - 70
Full charging specific	gravity		1.2	1.28	
Distributor Vacuum advance [Maximum distributo	M/	г	15°/40.0	9°/41.3 (310, 12.20)	12.5°/46.7
degree/distributor kPa (mmHg, inHg)]	АЛ	Г	(300, 11.81)	7.5°/37.3 (280, 11.02)	(350, 13.78)
Centrifugal advance [Maximum distributo degree/distributor rpi				8.5°/1,250	
Tightening torque			N-m	kg-m	ft-lb
Fuel hose clamp			1.0 - 1.5	0.10 - 0.15	0.7 - 1.1
Cylinder head		021	69 - 83	7.0 - 8.5	51 - 61
Rocker cover bolt			10 - 16	1.0 - 1.6	7 - 12
Manifold bolt and	M8 bo	It	15 - 25	1.5 - 2.5	11 - 18
	М10 Ь	olt	34 - 44	3.5 - 4.5	25 - 33
nut					

On non-California models for U.S.A., ignition timing should be checked with distributor vacuum hose disconnected and plugged up.

RRAKE

		Unit: mm (in
Disc brake	Front	Rear
Pad minimum thickness	2.0 (0	0.079)
Rotor repair limit Runout	Less than 0.10 (0.0039)	Less than 0.15 (0.0059)
Parallelism circumferential direction	Less than 0.	03 (0.0012)
Minimum thickness	18.0 (0.709)	8.6 (0.339)

CLUTCH PEDAL

	Unit: mm (in)
Height	203 (7.99)
Free play	1 - 5 (0.04 - 0.20)

WHEEL ALIGNMENT (Unladen)

Camber	degree	-35	- 55'
Caster	degree	4º10'	- 5°40'
Toe-in	mm (in)	1 - 3 (0.04 - 0.12)	
	degree	6' - 16' (On	both sides)
Turning angle	degree	Power steering model	Manual steering mode
Toe-out - turns (Inside	de/Outside)	20°/18.1°	20°/18.7°
Inside		32° - 36°	33%° - 37%°
Outside		24%° - 28%°	29° - 33°

^{*:} Tankful of fuel, radiator coolant and engine oil full. Spare tire, jack, hand tools, mats in designed position.

FRONT WHEEL BEARING I

Tightening torque N-m (kg-m, ft-lb)	25 - 29 (2.5 - 3.0, 18 - 22)
Return angle degree	60°

WHEEL AND TIRE

AND DESCRIPTION OF THE PARTY OF	HR-14	C78-14 *1
Under 160 (100)	Over 160 (100)	Under 80 (50)
28 (200)	32 (230)	28 (200)
		Under 160 (100) Over 160 (100) 28 (200) 32 (230)

REFILL CAPACITIES

U	nit	Liter	US measure
Fuel tank		80	21-1/8 gal
	With reservoir	10.5	11-1/8 qt
Coolant	Without reservoir	9.7	10-1/4 qt
Francisco est	With oil filter	4.5	4-3/4 qt
Engine oil	Without oil filter	4.0	4-1/4 qt
Transmission	M/T	2.0	4-1/4 pt
Fransmission	A/T	5.5	5-7/8 qt
	R200	1.3	2-3/4 pt
Different carrier	R180	1.0	2-1/8 pt
Power steering system		1.1	1-1/8 qt
Windshield washer tar	ık	2.8	3 qt
Headlight cleaner washer tank		2.0	2-1/8 qt
Air conditioning	Compressor oil	150 ml	5.1 fl oz
system	Refrigerant	0.9 - 1.1 kg	2.0 - 2.4 16

EXPORT SERVICE DEPARTMENT

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^{*1:} Space Saver Spare tire or Foldable Spare tire.
*2: Tire pressure should be checked when tires are cold.