	QUICK REFERENCE INDEX			
Edition: May 2003	A GENERAL INFORMATION GI General Information			
Revision: February 2004 Publication No. SM4E-1Z33U6	B ENGINE	EM Engine Mechanical		
	B ENGINE	LU Engine Lubrication System		
		CO Engine Cooling System		
		EC Engine Control System		
		FL Fuel System		
		EX Exhaust System		
		ACC Accelerator Control System		
	C TRANSMISSION/	CL Clutch		
	TRANSAXLE	MT Manual Transmission		
		AT Automatic Transmission		
	D DRIVELINE/AXLE	PR Propeller Shaft		
	DINVELINIANCE	RFD Rear Final Drive		
		FAX Front Axle		
NISSAN		RAX Rear Axle		
	E SUSPENSION	FSU Front Suspension		
350Z		RSU Rear Suspension		
MODEL Z33 SERIES		WT Road Wheels & Tires		
	F BRAKES	BR Brake System		
		PB Parking Brake System		
		BRC Brake Control System		
	G STEERING	PS Power Steering System		
	H RESTRAINTS	SB Seat Belts		
		SRS Supplemental Restraint System		
		(SRS)		
	I BODY	BL Body, Lock & Security System		
		GW Glasses, Window System & Mir-		
		rors		
		RF Roof		
		El Exterior & Interior		
		IP Instrument Panel SE Seat		
	L AID CONDITIONED	ATC Automatic Air Conditioner		
	J AIR CONDITIONER			
	K ELECTRICAL	SC Starting & Charging System		
		LT Lighting System		
		DI Driver Information System		
		WW Wiper, Washer & Horn		
		BCS Body Control System LAN LAN System		
		AV Audio, Visual, Navigation & Tele-		
		phone System		
		ACS Auto Cruise Control System		
		PG Power Supply, Ground & Circuit Elements		
	L MAINTENANCE	MA Maintenance		
	M INDEX	IDX Alphabetical Index		
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FOREWORD

This manual contains maintenance and repair procedure for the 2004 NISSAN 350Z.

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 print this form and type or write 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: (248) 488-3910

SERVICE MANUA	AL: Model:	Year:			
PUBLICATION NO	D. (Refer to Quick Reference Index	i):			
Please describe any Service Manual issues or problems in detail:					
Page number(s) _	Note: Please in	clude a copy of each page, i	marked with your comments.		
Are the trouble d	iagnosis procedures logical and e	easy to use? (circle your ar	nswer) YES NO		
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Please describe th	ne issue or problem in detail:				
_	on of the manual clear and easy to	, <u>-</u>	er) YES NO		
What information repairing custom	should be included in NISSAN S er vehicles?	Service Manuals to better s	upport you in servicing or		
DATE:	YOUR NAME:	P(OSITION:		
DEALER:	DEALER NO.:	ADDRESS:			
CITY:	STATE/PROV./COU	NTRY: ZIP/F	POSTAL CODE:		

INCH TO METRIC CONVERSION TABLE

(Rounded-off for automotive use)

(ITOGITACE OII	TOT AUTOTION	vc usc)	
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	24.13
.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		
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METRIC TO INCH CONVERSION TABLE

(Rounded-off for automotive use)

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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	36	1.417	86	3.386
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	37	1.457	87	3.425
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	38	1.496	88	3.465
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	39	1.535	89	3.504
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	40	1.575	90	3.543
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	41		91	
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	42		92	
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				
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				
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1.709 100 3.937				
		1.703	100	3.731

QUICK REFERENCE CHART 350Z

QUICK REFERENCE CHART 350Z ENGINE TUNE-UP DATA (VQ35DE)

PFP:00000

ELS0003W

Engine model		VQ35DE				
Firing order		1-2-3-4-5-6				
Idle speed rpm A/T (In "P" or "N" position) M/T (In "Neutral" position)		650±50				
Ignition timing (BTDC at idle speed) A/T (In "P" or "N" position) M/T (In "Neutral" position)		15°± 5°				
CO% at idle			0	.7 - 9.9 % and e	engine runs smooth	ly
	Deflection adj	ustment	Unit: mm (in)	Tension adjus	tment	Unit: N (kg, lb)
Drive belt		Used belt	New belt	Us	sed belt	New belt
	Limit	After adjustment	New beit	Limit	After adjustment	New beit
Alternator and power steering oil pump belt	7 (0.28)	4 - 5 (0.16 - 0.20)	3.5 - 4.5 (0.138 - 0.177)	294 (30, 66)	730 - 818 (74.5 - 83.5, 164 - 184)	838 - 926 (85.5 - 94.5, 188 - 208)
A/C compressor belt	12 (0.47)	9 - 10 (0.35 - 0.39)	8 - 9 (0.31- 0.35)	196 (20, 44)	348 - 436 (35.5 - 44.5, 78 - 98)	470 - 559 (48 - 57, 106 - 126)
Applied pushing force		98 N (10kg, 22lb)			_	
Radiator cap relief press	Radiator cap relief pressure kPa (kg/cm², psi) Standard		78 - 98 (0.8 - 1.0, 11 - 14)			
	Limit			59	(0.6, 9)	
Cooling system leakage testing pres- kPa (kg/cm , psi) sure		157 (1.6, 23)				
Compression pressure	Standard	kPa (kg/cm ² , psi)/rpm	1,275 (13.0, 185) / 300			
Minimum			981 (10.0, 142) / 300			
	Differential limit between cylinders 98 (1.0, 14) / 300), 14) / 300			
Spark plug	Standard type		PLFR5A - 11			
	Hot type		PLFR4A - 11			
	Cold type			PLF	R6A - 11	
	Gap (Nominal) mm (in)	1.1 (0.043)			

FRONT WHEEL ALIGNMENT (Unladen*)

ELS0003X

Camber	Degree minute (Decimal degree)	Minimum	- 1° 20′ (- 1.33°)
		Nominal	- 0° 35′ (- 0.58°)
		Maximum	0° 10′ (0.17°)
		Left and right difference	45' (0.75°)
Caster	Degree minute (Decimal degree)	Minimum	7° 25′ (7.42°)
		Nominal	8° 10′ (8.17°)
		Maximum	8° 55′ (8.92°)
		Left and right difference	45′ (0.75°)
Kingpin inclination	Degree minute (Decimal degree)	Minimum	4° 20′ (4.33°)
		Nominal	5° 05′ (5.08°)
		Maximum	5° 50′ (5.83°)
Total toe-in	mm (in)	Minimum	0(0)
Distance (A – B)		Nominal	1 (0.04)
		Maximum	2 (0.08)
Wheel turning angle (Full turn)	Inside	Minimum	35° 55′ (35.9°)
	Degree minute (Decimal degree)	Nominal	38° 55′ (38.9°)
		Maximum	39° 55′ (39.9°)
	Outside	Nominal	30° 40′ (30.7°)
	Degree minute (Decimal degree)		

^{*:} Fuel, engine coolant and engine oil are full. Spare tire, jack, hand tools and mats are located in designated positions.

REAR WHEEL ALIGNMENT (Unladen*)

ELS0003Y

Camber	Degree minute (Decimal degree)	Minimum	- 2° 05′ (- 2.08°)
		Nominal	- 1° 35′ (- 1.58°)
		Maximum	- 1° 05′ (- 1.08°)
Total-in	mm (in)	Minimum	0.2 mm (0.008 in) [17 inch tire] 1.1 mm (0.043 in) [18 inch tire]
Distance (A – B)		Nominal	1.0 mm (0.039 in) [17 inch tire] 1.9 mm (0.075 in) [18 inch tire]
		Maximum	1.8 mm (0.071 in) [17 inch tire] 2.7 mm (0.106 in) [18 inch tire]

^{*:} Fuel, engine coolant and oil full. Spare tire, jack, hand tools and mats in designated positions.

BRAKE

ELS0003Z

Unit: mm (in)

Front brake	Pad wear limit	2.0 (0.079)
	Rotor repair limit	CLZ25VD : 22.0 (0.866) OPB27VA : 28.4 (1.118)
Rear brake	Pad wear limit	2.0 (0.079)
	Rotor repair limit	AD14VE: 14.0 (0.551) OPB13VB: 20.2 (0.795)
Pedal free he	eight	M/T : 154 - 164 (6.06 - 6.46) A/T : 162 - 172 (6.38 - 6.77)
Pedal depres	ssed height*	M/T : More than 90 (3.54) A/T : More than 95 (3.74)

^{*:} Under force of 490 N(50 kg, 110 lb) with engine running.

REFILL CAPACITIES

ELS00040

UNIT		Liter	US measure
Fuel tank		76	20 - 1/8 gal
Engine coolant (With reservoir tank)		8.7	9 - 1/4 qt
	Drain and refill		
Engine	With oil filter change	4.7	5 qt
Engine	Without oil filter change	4.4	4 - 5/8 qt
	Dry engine (Overhaul)	5.4	5 - 3/4 qt
Transmission	A/T	10.3	10 - 7/8 qt
	M/T	2.9	3 - 1/8 qt
Differential carrier		1.4	3 pt
Power steering system		1.0	1 - 1/8 qt
Air conditioning system	Compressor oil	0.18	6.0 fl oz
	Refrigerant	0.55 kg	1.21 lb