Edition: November 2006	QUICK REFERENCE INDEX		
Revision: November 2006	A GENERAL INFORMATION	GI General Information	
Publication No. SM7E-1Z33U0	B ENGINE	EM Engine Mechanical	
		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	
		RFD Rear Final Drive	
		FAX Front Axle	
		RAX Rear Axle	
	E SUSPENSION	FSU Front Suspension	
BUCCABL		RSU Rear Suspension	
NISSAN		WT Road Wheels & Tires	
350Z	F BRAKES	BR Brake System	
MODEL Z33 SERIES		PB Parking Brake System	
		BRC Brake Control System	
	G STEERING	PS Power Steering System	
		STC Steering Control 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	
	J AIR CONDITIONER	ATC Automatic 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 El- ements	
	L MAINTENANCE	MA Maintenance	
	M INDEX	IDX Alphabetical Index	

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FOREWORD

This manual contains maintenance and repair procedure for the 2007 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.

QUICK REFERENCE CHART 350Z

QUICK REFERENCE CHART 350Z ENGINE TUNE-UP DATA (VQ35HR)

Engine model			VQ35HR	
Firing order			1-2-3-4-5-6	
Idle speedrpmA/T (In "P" or "N" position)M/T (In "Neutral" position)		rpm	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 engine runs smoothly	
Tension of drive belts			Auto adjustment by auto tensioner	
Radiator cap relief press	Radiator cap relief pressure kPa (kg/cm ² , psi) Standard		108 - 127 (1.1 - 1.3, 16 - 18)	
	Limit		88 (0.9, 13)	
Cooling system leakage testing pres- kPa (kg/cm , psi) sure		kPa (kg/cm⊢, psi)	157 (1.6, 23)	
Compression pressure kPa (kg/cm ² , psi)/rpm Standard Minimum		kPa (kg/cm ² , psi)/rpm		
			1,275 (13.0, 185)/300	
			981 (10.0, 142)/300	
	Differential lin	nit between cylinders	98 (1.0, 14)/300	
Spork plug	Standard type		FXE22HR11	
Spark plug	Gap (Nominal) mm (in)		1.1 (0.043)	

FRONT WHEEL ALIGNMENT (Unladen*)

Minimum -1°20' (-1.33°) Nominal -0°35′ (-0.58°) Camber Degree minute (Decimal degree) 0°10′ (0.17°) Maximum Left and right difference 45' (0.75°) 7°25′ (7.42°) Minimum Nominal 8°10' (8.17°) Caster Degree minute (Decimal degree) 8°55' (8.92°) Maximum Left and right difference 45' (0.75°) Minimum 4°20' (4.33°) Kingpin inclination 5°05' (5.08°) Nominal Degree minute (Decimal degree) 5°50' (5.83°) Maximum Minimum 0 mm (0 in) Distance Nominal 1 mm (0.04 in) Maximum 2 mm (0.08 in) Total toe-in Minimum 0°00′ (0.00°) Angle (left wheel or right wheel) 0°02′30″ (0.04°) Nominal Degree minute (Decimal degree) Maximum 0°05′ (0.08°)

ELS0003W

ELS0003X

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QUICK REFERENCE CHART 350Z

Wheel turning angle (Full turn)	Inside Degree minute (Decimal degree)	Minimum	35°55′ (35.9°)
		Nominal	38°55′ (38.9°)
		Maximum	39°55′ (39.9°)
	Outside Degree minute (Decimal degree)	Nominal	30°40′ (30.7°)

* : Fuel, engine coolant and lubricant are full. Spare tire, jack, hand tools and mats are in designated positions.

REAR WHEEL ALIGNMENT (Unladen*)

Camber Degree minute (Decimal degree)		Minimum	-2°05′ (-2.08°)
		Nominal	-1°35′ (-1.58°)
		Maximum	-1°05′ (-1.08°)
	Distance	Minimum	1.1 mm (0.043 in)
		Nominal	1.9 mm (0.075 in)
Total toe-in		Maximum	2.7 mm (0.106 in)
	Angle (left wheel or right wheel) Degree minute (Decimal degree)	Minimum	0°02′54″ (0.05°)
		Nominal	0°04′54″ (0.08°)
		Maximum	0°06′54″ (0.12°)

* : Fuel, engine coolant and lubricant are full. Spare tire, jack, hand tools and mats are in designated positions.

BRAKE

ELS0003Z Unit:mm(in)

Front brake	Pad repair limit thickness	2.0 (0.079)		
	Rotor repair limit thickness	Other than brembo : 26.0 (1.024) With brembo : 28.4 (1.118)		
Rear brake	Pad repair limit thickness	2.0 (0.079)		
	Rotor repair limit thickness	Other than brembo : 14.0 (0.551) With brembo : 20.2 (0.795)		
Brake pedal I	neight (from dash lower panel top surface)	M/T : 153.2 - 163.2 (6.03 - 6.43) A/T : 161.5 - 171.5 (6.36 - 6.75)		
Depressed pedal height*		M/T : More than 90 (3.54) A/T : More than 95 (3.74)		

* : Under a force of 490 N(50 kg, 110 lb) with the engine running.

REFILL CAPACITIES

ELS00040

UNIT		Liter	US measure
Fuel tank		76	20 gal
Engine coolant (With reservoir tank)		9.0	9-1/2 qt
	Drain and refill		
Engine	With oil filter change	4.7	5 qt
	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	0.15	5.3 fl oz
	Refrigerant	0.55 kg	1.21 lb

ELS0003Y