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NISSAN

350Z

MODEL Z33 SERIES

QUICK REFERENCE INDEX

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	CO Engine Cooling System
	EC Engine Control System
	FL Fuel System
	EX Exhaust System
	ACC Accelerator Control System
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	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
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	WT Road Wheels & Tires
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	PB Parking Brake System
	BRC Brake Control System
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FOREWORD

This manual contains maintenance and repair procedure for the 2006 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.

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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 A/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			
Drive belt	Deflection adjustment		Unit: mm (in)	Tension adjustment Unit: N (kg, lb)		
	Used belt		New belt	Used belt		New belt
	Limit	After adjustment		Limit	After adjustment	
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 pressure kPa (kg/cm ² , psi)			78 - 98 (0.8 - 1.0, 11 - 14)			
Standard						
Limit			59 (0.6, 9)			
Cooling system leakage testing pres- sure kPa (kg/cm ² , psi)			157 (1.6, 23)			
Compression pressure kPa (kg/cm ² , psi)/rpm						
Standard			1,275 (13.0, 185)/300			
Minimum			981 (10.0, 142)/300			
Differential limit between cylinders			98 (1.0, 14)/300			
Spark plug	Standard type		PLFR5A-11			
	Hot type		PLFR4A-11			
	Cold type		PLFR6A-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	Distance	Minimum	0 mm (0 in)
		Nominal	1 mm (0.04 in)
		Maximum	2 mm (0.08 in)
	Angle (left wheel or right wheel) Degree minute (Decimal degree)	Minimum	0°00' (0.00°)
		Nominal	0°02'30" (0.04°)
		Maximum	0°05' (0.08°)
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*)

ELS0003Y

Camber Degree minute (Decimal degree)		Minimum	-2°05' (-2.08°)
		Nominal	-1°35' (-1.58°)
		Maximum	-1°05' (-1.08°)
Total toe-in	Distance	Minimum	1.1 mm (0.043 in)
		Nominal	1.9 mm (0.075 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 brembro : 26.0 (1.024) With brembro : 28.4 (1.118)
Rear brake	Pad repair limit thickness	2.0 (0.079)
	Rotor repair limit thickness	Other than brembro : 14.0 (0.551) With brembro : 20.2 (0.795)

QUICK REFERENCE CHART 350Z**2006**

Brake pedal height (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)		8.7	9-1/4 qt
Engine	Drain and refill		
	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	0.18	6.0 fl oz
	Refrigerant	0.55 kg	1.21 lb