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FOREWORD

This manual contains maintenance and repair procedure for the 2009 NISSAN 370Z.

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 370Z

QUICK REFERENCE CHART 370Z ENGINE TUNE-UP DATA (VQ37VHR)

Engine model			VQ37VHR
Firing order			1-2-3-4-5-6
Idle speed rpm A/T (In "P or N" position) M/T (In Neutral position)		rpm	650 ± 50
Ignition timing (BTDC at idle speed)			$10^\circ\pm5^\circ$
CO% at idle			0.7 - 9.9 % and engine runs smoothly
Tensions of drive belts			Auto adjustment by auto tensioner
Radiater cap relief pressure kPa (kg/cm ² , psi)		kPa (kg/cm ² , psi)	
	Standard		122.3 - 151.7 (1.2 - 1.5, 18 - 22)
	Limit		107 (1.1, 16)
Cooling system leakage testing pressure kPa (kg/cm ² , psi)		kPa (kg/cm ² , psi)	157 (1.6, 23)
Compression pressure	k	Pa (kg/cm ² , psi)/200 rpm	
	Standard		1,667 - 2,354 (17 - 24, 242 - 341)
	Minimum		1,226 (12.5, 178)
	Differential limit be	tween cylinders	98 (1.0, 14)
	Make		DENSO
Spark plug (Iridium-tipped type)	Standard type		FXE24HR11
(marani upped type)	Gap (Nominal)	mm (in)	1.1 (0.043)

2009

ELS0003W

PFP:00000

FRONT WHEEL ALIGNMENT

ELS0003X

2009

Camber Degree minute (Decimal degree)		Minimum	-1° 25′ (-1.41°)
		Nominal	-0° 40′ (-0.67°)
		Maximum	0° 05′ (0.08°)
		Left and right difference	0° 33′ (0.55°) or less
		Minimum	4° 25′ (4.42°)
Caster		Nominal	5° 10′ (5.17°)
Degree minute (Decimal degree)		Maximum	5° 55′ (5.91°)
		Left and right difference	0° 39′ (0.65°) or less
		Minimum	6° 55′ (6.92°)
Kingpin inclir	nation te (Decimal degree)	Nominal	7° 40′ (7.67°)
209.00		Maximum	8° 25′ (8.41°)
		Minimum	In 1 mm (0.04 in)
	Distance	Nominal	In 2 mm (0.08 in)
Total tao in		Maximum	In 3 mm (0.11 in)
Total toe-in	Angle (Left wheel or right wheel) Degree minute (Decimal degree)	Minimum	In 0° 03′ (0.05°)
		Nominal	In 0° 05′ (0.08°)
		Maximum	In 0° 07′ (0.11°)

Measure value under unladen* conditions.

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

REAR WHEEL ALIGNMENT

Wheel size		18 inch	19 inch	
Camber Degree minute (Decimal degree)		Minimum	-2° 10′ (-2.16°)	
		Nominal	-1° 40′ (-1.67°)	
Dogroomin		Maximum	-1° 10′ (-1.17°)	
Total toe-in Angle (Left wheel or right wheel) Degree minute (Decimal degree)	Minimum	In 2.0 mm (0.079 in)	In 2.0 mm (0.079 in)	
	Nominal	In 3.8 mm (0.150 in)	In 3.7 mm (0.146 in)	
	Maximum	In 5.6 mm (0.221 in)	In 5.4 mm (0.213 in)	
	Minimum	In 0° 05′ (0.09°)		
	Nominal	In 0° 09′ (0.15°)		
		Maximum	In 0° 13′ (0.21°)	

Measure value under unladen* conditions.

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

BRAKE PEDAL

Unit : mm (in.)

ELS0003Y

Depressed brake pedal height (H1)	171.5 - 181.5 (6.75 - 7.15)
Brake pedal reserve height (H2) [Depressing 490 N (50 kg, 110 lb) while turning the engine ON]	124.0 (4.88) or more

QUICK REFERENCE CHART 370Z

FRONT DISK BRAKE 2 Piston Type

		Unit : mm (in.)
Brake pad	Wear limit thickness	2.0 (0.079)
Disc rotor	Wear limit thickness	26.0 (1.024)

4 Piston Type

Unit	÷	mm	(in.)

Brake pad	Wear limit thickness	2.0 (0.079)
Disc rotor	Wear limit thickness	30.0 (1.181)

REAR DISK BRAKE

1 Piston Type

Brake pad	Wear limit thickness	2.0 (0.079)
Disc rotor	Wear limit thickness	14.0 (0.551)

2 Piston Type

		Unit : mm (in.)
Brake pad	Wear limit thickness	2.0 (0.079)
Disc rotor	Wear limit thickness	18.0 (0.709)

REFILL CAPACITIES

UNIT Liter US measure Imp measure Fuel tank 71.9 19 gal 15-7/8 gal A/T models 8.5 7-1/2 qt 9 qt Engine Coolant (With reservoir tank) at MAX level M/T models 8.6 9-1/8 qt 7-5/8 qt Drain and refill With oil filter change 5-1/8 qt 4-1/4 qt 4.9 Engine oil Without oil filter change 4-7/8 qt 4.6 4 qt Dry engine (Overhaul) 5.7 6 qt 5 qt A/T 9.2 9-3/4 qt 8-1/8 qt Transmission M/T 2.83 5 pt 6 pt Final drive 1.4 3 pt 2-1/2 pt Power steering system 1.0 1-1/8 qt 7/8 qt Compressor oil 0.15 5.07 fl oz 5.3 fl oz Air conditioning system 1.1 lb 1.1 lb 0.5 kg Refrigerant

2009

Unit : mm (in.)

ELS00040