

QUICK REFERENCE INDEX

NISSAN
370Z
MODEL Z34 SERIES

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	EC Engine Control System
	FL Fuel System
	EX Exhaust System
	STR Starting System
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D TRANSMISSION & DRIVELINE	CL Clutch
	TM Transaxle & Transmission
	DLN Driveline
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	RAX Rear Axle
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I VENTILATION, HEATER & AIR CONDITIONER	VTL Ventilation System
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J BODY INTERIOR	INT Interior
	IP Instrument Panel
	SE Seat
K BODY EXTERIOR, DOORS, ROOF & VEHICLE SECURITY	DLK Door & Lock
	SEC Security Control System
	GW Glass & Window System
	PWC Power Window Control System
	RF Roof
	EXT Exterior
	BRM Body Repair
L DRIVER CONTROLS	MIR Mirrors
	EXL Exterior Lighting System
	INL Interior Lighting System
	WW Wiper & Washer
	DEF Defogger
	HRN Horn
M ELECTRICAL & POWER CONTROL	PWO Power Outlet
	BCS Body Control System
	LAN LAN System
	PCS Power Control System
	CHG Charging System
	PG Power Supply, Ground & Circuit Elements
N DRIVER INFORMATION & MULTIMEDIA	MWI Meter, Warning Lamp & Indicator
	WCS Warning Chime System
	AV Audio, Visual & Navigation System
O CRUISE CONTROL & DRIVER ASSISTANCE	CCS Cruise Control System
P MAINTENANCE	MA Maintenance

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FOREWORD

This manual contains maintenance and repair procedure for the 2012 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.

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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:

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Technical Service Information
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Farmington Hills, MI USA 48331
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SERVICE MANUAL: Model: _____ **Year:** _____

PUBLICATION NO. (Refer to Quick Reference Index): _____

Please describe any Service Manual issues or problems in detail:

Page number(s) _____ *Note: Please include a copy of each page, marked with your comments.*

Are the trouble diagnosis procedures logical and easy to use? (circle your answer) YES NO

If no, what page number(s)? _____ *Note: Please include a copy of each page, marked with your comments.*

Please describe the issue or problem in detail: _____

Is the organization of the manual clear and easy to follow? (circle your answer) YES NO

Please comment: _____

What information should be included in NISSAN Service Manuals to better support you in servicing or repairing customer vehicles?

DATE: _____ YOUR NAME: _____ POSITION: _____

DEALER: _____ DEALER NO.: _____ ADDRESS: _____

CITY: _____ STATE/PROV./COUNTRY: _____ ZIP/POSTAL CODE: _____

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

PFP:00000

ELS0003W

Engine model		VQ37VHR
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)		10° ± 5°
Tensions of drive belt		Auto adjustment by auto tensioner
Radiator cap relief pressure	kPa (kg/cm ² , psi)	
Standard		78.2 - 97.8 (0.8 - 1.0, 11 - 14)
Limit		59 (0.6, 9)
Cooling system leakage testing pressure	kPa (kg/cm ² , psi)	157 (1.6, 23)
Compression pressure	kPa (kg/cm ² , psi)/200 rpm	
Standard		1,667 - 2,354 (17 - 24, 242 - 341)
Minimum		1,226 (12.5, 178)
Differential limit between cylinders		98 (1.0, 14)
Spark plug (Iridium-tipped type)		
Make		DENSO
Standard type		FXE24HR11
Gap (Nominal)	mm (in)	1.1 (0.043)

FRONT WHEEL ALIGNMENT

ELS0003X

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	
Caster Degree minute (Decimal degree)	Minimum	4° 25' (4.42°)	
	Nominal	5° 10' (5.17°)	
	Maximum	5° 55' (5.91°)	
	Left and right difference	0° 39' (0.65°) or less	
Kingpin inclination Degree minute (Decimal degree)	Minimum	6° 55' (6.92°)	
	Nominal	7° 40' (7.67°)	
	Maximum	8° 25' (8.41°)	
Toe-in	Total toe-in Distance	Minimum	In 1 mm (0.04 in)
		Nominal	In 2 mm (0.08 in)
		Maximum	In 3 mm (0.11 in)
	Toe 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

ELS0003Y

Wheel size		18 inch	19 inch
Camber Degree minute (Decimal degree)	Minimum	-2° 10' (-2.16°)	
	Nominal	-1° 40' (-1.67°)	
	Maximum	-1° 10' (-1.17°)	
Toe-in	Total toe-in Distance	Minimum	In 2.0 mm (0.079 in)
		Nominal	In 3.8 mm (0.150 in)
		Maximum	In 5.6 mm (0.221 in)
	Toe angle (Left wheel or right wheel) Degree minute (Decimal degree)	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.)

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

FRONT DISC 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 DISC BRAKE

1 Piston Type

Unit : mm (in.)

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

ELS00040

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