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QUICK REFERENCE INDEX

NISSAN
370Z
MODEL Z34 SERIES

A GENERAL INFORMATION	GI General Information
B ENGINE	EM Engine Mechanical
	LU Engine Lubrication System
	CO Engine Cooling System
	EC Engine Control System
	FL Fuel System
	EX Exhaust System
	STR Starting System
C ELECTRIC POWER TRAIN	ACC Accelerator Control System
D TRANSMISSION & DRIVELINE	CL Clutch
	TM Transaxle & Transmission
	DLN Driveline
	FAX Front Axle
	RAX Rear Axle
E SUSPENSION	FSU Front Suspension
	RSU Rear Suspension
F BRAKES	WT Road Wheels & Tires
	BR Brake System
G STEERING	PB Parking Brake System
	BRC Brake Control System
	ST Steering System
H RESTRAINTS	STC Steering Control System
	SB Seat Belt
	SBC Seat Belt Control System
	SR SRS Airbag
I VENTILATION, HEATER & AIR CONDITIONER	SRC SRS Airbag Control System
	VTL Ventilation System
	HA Heater & Air Conditioning System
J BODY INTERIOR	HAC Heater & Air Conditioning Control System
	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
L DRIVER CONTROLS	EXT Exterior
	BRM Body Repair
	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 2015 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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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.*

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

PF0:00000

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) A/T (In "P" or "N" position) M/T (In Neutral position)	10° ± 5°		
Tensions of drive belt	Belt tension is not necessary, as it is automatically adjusted by drive belt auto-tensioner.		
Radiator cap relief pressure	kPa (kg/cm ² , psi)	78.2 - 97.8 (0.8 - 1.0, 11 - 14)	
	Standard		
	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	1,667 - 2,354 (17 - 24, 242 - 341)	
	Standard		
	Minimum		
	Differential limit between cylinders	98 (1.0, 14)	
Spark plug (Iridium-tipped type)	Make	DENSO	
	Standard type	FXE24HR11	
	Gap(Nominal)	Standard	1.1 mm (0.043 in)
		Limit	1.4 mm (0.055 in)

FRONT WHEEL ALIGNMENT

Except for NISMO

Item		Standard	
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	Out 1 mm (0.04 out)
		Nominal	In 1 mm (0.04 in)
		Maximum	In 3 mm (0.12 in)
	Toe angle (left wheel or right wheel) Degree minute (Decimal degree)	Minimum	In 0° 04' (0.07°)
		Nominal	In 0° 05' (0.08°)
		Maximum	In 0° 06' (0.10°)

Measure value under unladen* conditions.

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

For NISMO

Item		Standard	
Camber Degree minute (Decimal degree)	Minimum	-1° 30' (-1.50°)	
	Nominal	-0° 45' (-0.75°)	
	Maximum	0° 00' (0.00°)	
	Left and right difference	0° 33' (0.55°) or less	
Caster Degree minute (Decimal degree)	Minimum	4° 30' (4.50°)	
	Nominal	5° 15' (5.25°)	
	Maximum	6° 00' (6.00°)	
	Left and right difference	0° 39' (0.65°) or less	
Kingpin inclination Degree minute (Decimal degree)	Minimum	7° 00' (7.00°)	
	Nominal	7° 45' (7.75°)	
	Maximum	8° 30' (8.50°)	
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

Except for NISMO

Item		Standard		
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)	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)
	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.

For NISMO

Item		Standard		
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	171.5 - 181.5 (6.75 - 7.15)
Depressed brake pedal height [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.)

Item		Limit
Brake pad	Wear thickness	2.0 (0.079)
	Wear thickness	26.0 (1.024)
Disc rotor	Thickness variation (measured at 8 positions)	0.015 (0.0006)
	Runout (with it attached to the vehicle)	0.035 (0.0014)

4 Piston Type

Unit: mm (in.)

Item		Limit
Brake pad	Wear thickness	2.0 (0.079)
	Wear thickness	30.0 (1.181)
Disc rotor	Thickness variation (measured at 8 positions)	0.015 (0.0006)
	Runout (with it attached to the vehicle)	0.035 (0.0014)

REAR DISC BRAKE

1 Piston Type

Unit: mm (in.)

Item		Limit
Brake pad	Wear thickness	2.0 (0.079)
	Wear thickness	14.0 (0.551)
Disc rotor	Thickness variation (measured at 8 positions)	0.015 (0.0006)
	Runout (with it attached to the vehicle)	0.055 (0.0022)

2 Piston Type

Unit: mm (in.)

Item		Limit
Brake pad	Wear thickness	2.0 (0.079)
	Wear thickness	18.0 (0.709)
Disc rotor	Thickness variation (measured at 8 positions)	0.015 (0.0006)
	Runout (with it attached to the vehicle)	0.055 (0.0022)

REFILL CAPACITIES

UNIT		Liter	US measure
Fuel tank		71.9	19 gal
Engine Coolant (With reservoir tank) at MAX level	A/T models	9.1	9-5/8 qt
	M/T models	9.2	9-3/4 qt
Engine oil	Drain and refill		
	With oil filter change	4.9	5-1/8 qt
	Without oil filter change	4.6	4-7/8 qt
	Dry engine (Overhaul)	5.7	6 qt
Transmission	A/T	9.2	9-3/4 qt
	M/T	2.83	6 pt
Final drive	Rear	1.4	3 pt
Power steering system		1.0	1-1/8 qt
Air conditioning system	Compressor oil	0.15	5.07 fl oz
	Refrigerant	0.5 kg	1.1 lb