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NISSAN

370Z

MODEL Z34 SERIES

QUICK REFERENCE INDEX

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
	ACC Accelerator Control System
C ELECTRIC POWER TRAIN	
D TRANSMISSION & DRIVELINE	CL Clutch
	TM Transaxle & Transmission
	DLN Driveline
	FAX Front Axle
	RAX Rear Axle
E SUSPENSION	FSU Front Suspension
	RSU Rear Suspension
	WT Road Wheels & Tires
F BRAKES	BR Brake System
	PB Parking Brake System
	BRC Brake Control System
G STEERING	ST Steering System
	STC Steering Control System
H RESTRAINTS	SB Seat Belt
	SBC Seat Belt Control System
	SR SRS Airbag
	SRC SRS Airbag Control System
I VENTILATION, HEATER & AIR CONDITIONER	VTL Ventilation System
	HA Heater & Air Conditioning System
	HAC Heater & Air Conditioning Control System
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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A

B

D

E

F

G

H

I

J

K

L

M

N

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P

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.*

Please describe the issue or problem in detail: _____

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

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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

PFP:00000

ENGINE TUNE-UP DATA (VQ37VHR)

ELS0003W

Engine model			VQ37VHR
Firing order			1-2-3-4-5-6
Idle speed		rpm	650 ± 50
A/T (In “P” or “N” position)			
M/T (In Neutral position)			
Ignition timing (BTDC at idle speed)			10° ± 5°
A/T (In “P” or “N” position)			
M/T (In Neutral position)			
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			1,226 (12.5, 178)
Differential limit between cylinders			98 (1.0, 14)
Make			DENSO
Standard type			FXE24HR11
Spark plug (Iridium-tipped type)	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)
		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.

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