

Edition: May 2012
Revision: August 2012
Publication No. SM3E-1Z34U1

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 |
| 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 |
| | VTL Ventilation System |
| I VENTILATION, HEATER & AIR CONDITIONER | 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 |
| L DRIVER CONTROLS | BRM Body Repair |
| | MIR Mirrors |
| | EXL Exterior Lighting System |
| | INL Interior Lighting System |
| | WW Wiper & Washer |
| | DEF Defogger |
| | HRN Horn |
| | |
| | PWO Power Outlet |
| M ELECTRICAL & POWER CONTROL | BCS Body Control System |
| | LAN LAN System |
| | PCS Power Control System |
| | CHG Charging System |
| | PG Power Supply, Ground & Circuit Elements |
| | MWI Meter, Warning Lamp & Indicator |
| N DRIVER INFORMATION & MULTIMEDIA | WCS Warning Chime System |
| | |
| | AV Audio, Visual & Navigation System |
| O CRUISE CONTROL & DRIVER ASSISTANCE | CCS Cruise Control System |
| | |
| P MAINTENANCE | MA Maintenance |

©2012 NISSAN MOTOR CO.,LTD.

All Rights Reserved. No part of this Service Manual may be reproduced or stored in a retrieval system, or transmitted in any form, or by any means, electronic, mechanical, recording or otherwise, without the prior written permission of NISSAN MOTOR CO., LTD.

**A
B
D
E
F
G
H
I
J
K
L
M
N
O
P**

FOREWORD

This manual contains maintenance and repair procedure for the 2013 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.



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:

Nissan North America, Inc.
Technical Service Information
39001 Sunrise Drive, P.O. Box 9200
Farmington Hills, MI USA 48331
FAX: (248) 488-3880

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 | | Belt tension is not necessary, as it is automatically adjusted by drive belt 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 | 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.)

| | | |
|------------|----------------------|--------------|
| 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 |
|---|---------------------------|--------|------------|
| 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 |

Thanks for your reading.

Please click here to download complete manual instantly.

And can also choose other manuals.

Feel free --->write to me with any questions.

Our service email:

manuals007@hotmail.com