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NISSAN
QUEST
MODEL E52 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		
		TM	Transaxle & Transmission
		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
		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
		ADP	Automatic Drive Positioner
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
		DAS	Driver Assistance System
P	MAINTENANCE	MA	Maintenance
Q	INDEX	IDX	Alphabetical Index

FOREWORD

This manual contains maintenance and repair procedure for the 2016 NISSAN QUEST.

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.*

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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: _____

_____

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

Please comment: _____

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

_____

_____

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_____

DATE: _____ YOUR NAME: _____ POSITION: _____

DEALER: _____ DEALER NO.: _____ ADDRESS: _____

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

QUICK REFERENCE CHART QUEST

PFP:00000

ENGINE TUNE-UP DATA (VQ35DE)

ELS0003W

Engine model			VQ35DE
Firing order			1-2-3-4-5-6
Idle speed rpm CVT (In “P” or “N” position)			650 ± 50
Ignition timing (BTDC at idle speed) CVT (In “P” or “N” position)			12° ± 2°
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		122.3 - 151.7 (1.2 - 1.5, 17.7 - 22.0)
	Limit		108 (1.1, 15.6)
Cooling system leakage testing pressure		kPa (kg/cm^2, psi)	156 (1.59, 22.6)
Compression pressure		kPa (kg/cm^2, psi)/rpm	
	Standard		1,275 (13.0, 185)/300
	Minimum		981 (10.0, 142)/300
Spark plug	Make		DENSO
	Standard type		FXE22HR11
	Gap	Standard	1.1 mm (0.043 in)
		Limit	1.4 mm (0.055 in)

FRONT WHEEL ALIGNMENT

ELS0003X

Item			Standard	
			Left side	Right side
Camber Degree minute (Decimal degree)		Minimum	–1° 00′ (–1.00°)	–1° 15′ (–1.25°)
		Nominal	–0° 15′ (–0.25°)	–0° 30′ (–0.50°)
		Maximum	0° 30′ (0.50°)	0° 15′ (0.25°)
		Left and right difference*1	–0° 18′ (–0.30°) - 0° 48′ (0.80°)	
Caster Degree minute (Decimal degree)		Minimum	3° 55′ (3.92°)	4° 05′ (4.09°)
		Nominal	4° 40′ (4.67°)	4° 50′ (4.83°)
		Maximum	5° 25′ (5.41°)	5° 35′ (5.58°)
		Left and right difference*1	–0° 18′ (–0.30°) - 0° 48′ (0.80°)	
Kingpin inclination Degree minute (Decimal degree)		Minimum	12° 00′ (12.00°)	
		Nominal	12° 45′ (12.75°)	
		Maximum	13° 30′ (13.50°)	
Toe-in	Total toe-in Distance	Minimum	Out 1.4 mm (0.055 in)	
		Nominal	In 0.6 mm (0.024 in)	
		Maximum	In 2.6 mm (0.102 in)	
	Total toe-angle Degree minute (Decimal degree)	Minimum	In 0° 00′ (In 0.0°)	
		Nominal	In 0° 08′ (In 0.13°)	
		Maximum	In 0° 16′ (In 0.27°)	

Measure value under unladen*2 conditions.
*1: A difference when assuming the left side a standard.
*2: Fuel, engine coolant and lubricant are full. Spare tire, jack, hand tools and mats are in designated positions.

REAR WHEEL ALIGNMENT

ELS0003Y

Item			Standard
Camber Degree minute (Decimal degree)		Minimum	–1° 06′ (–1.10°)
		Nominal	–0° 36′ (–0.60°)
		Maximum	–0° 06′ (–0.10°)
Toe-in	Total toe-in Distance	Minimum	In 1.2 mm (0.047 in)
		Nominal	In 2.8 mm (0.110 in)
		Maximum	In 4.4 mm (0.173 in)
	Total toe-angle Degree minute (Decimal degree)	Minimum	In 0° 06′ (In 0.1°)
		Nominal	In 0° 14′ (In 0.23°)
		Maximum	In 0° 22′ (In 0.37°)

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)

Item	Standard
Brake pedal height	195.6 – 205.6 (7.70 – 8.09)
Depressed brake pedal height [Depressing 490 N (50 kg, 110 lb) while turning the engine ON]	105.0 (4.13) or more
Clearance between stop lamp switch and brake switch threaded end and the stopper rubber	0.2 – 1.96 (0.008 – 0.0772)
Brake pedal play	3 – 11 (0.12 – 0.43)

BRAKE BOOSTER

Vacuum type

Unit: mm (in)

Item	Standard
Input rod length	127.0 – 128.0 (5.00 – 5.04)

FRONT DISC BRAKE

Unit: mm (in)

Item		Limit
Brake pad	Wear thickness	2.0 (0.079)
Disc rotor	Wear thickness	26.0 (1.024)
	Thickness variation (measured at 8 positions)	0.015 (0.0006)
	Runout (with it attached to the vehicle)	0.040 (0.0016)

REAR DISC BRAKE

Unit: mm (in)

Item		Limit
Brake pad	Wear thickness	2.0 (0.079)
Disc rotor	Wear thickness	14.0 (0.551)
	Thickness variation (measured at 8 positions)	0.015 (0.0005)
	Runout (with it attached to the vehicle)	0.050 (0.0020)

REFILL CAPACITIES

UNIT		Liter	US measure
Fuel tank		75.6	20 gal
Engine coolant capacity (With reservoir tank at “MAX” level)		11.3	12 qt
Engine oil capacity	Drain and refill		
	With oil filter change	4.6	4-7/8 qt
	Without oil filter change	4.3	4-1/2 qt
	Dry engine (Overhaul)	5.3	5-5/8 qt
Transmission	CVT	8.8	9-1/4 qt
Power steering system		1.0	1-1/8 qt
Air conditioning system	Compressor oil	0.25	8.5 fl oz
	Refrigerant	0.9 kg	1.98 lb