Edition: August 2013	QUICK REFERENCE INDEX		
Revision: May 2014	A GENERAL INFORMATION	GI General Information	
Publication No. SM14E00E52U0	B ENGINE	EM Engine Mechanical	
		LU Engine Lubrication System CO Engine Cooling System	
		EC Engine Cooling System	
		FL Fuel System	
		EX Exhaust System	
		STR Starting System	Б
		ACC Accelerator Control System	
	C ELECTRIC POWER TRAIN		
	D TRANSMISSION & DRIVELINE		
	D TRANSMISSION & DRIVELINE	TM Transaxle & Transmission	
			Ε
		FAX Front Axle	
NISSAN		RAX Rear Axle	
QUEST	E SUSPENSION	FSU Front Suspension	
•		RSU Rear Suspension	
MODEL E52 SERIES		WT Road Wheels & Tires	
	F BRAKES	BR Brake System	G
		PB Parking Brake System	G
		BRC Brake Control System	
	G STEERING	ST Steering System	
	H RESTRAINTS	STC Steering Control System	H
	H RESTRAINTS	SB Seat Belt	
		SR SRS Airbag	
		SRC SRS Airbag Control System	
	I VENTILATION, HEATER & AIR		
	CONDITIONER	HA Heater & Air Conditioning System	
	J BODY INTERIOR	HAC Heater & Air Conditioning Control System INT Interior	
	3 BODT INTERIOR	IP Instrument Panel	
		SE Seat	
		ADP Automatic Drive Positioner	
	K BODY EXTERIOR, DOORS,	DLK Door & Lock	
	ROOF & VEHICLE SECURITY	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	
© 2014 NISSAN MOTOR CO.,LTD.	M ELECTRICAL & POWER CON- TROL		
		BCS Body Control System LAN LAN System	
All Rights Reserved. No part		PCS Power Control System	
of this Service Manual may		CHG Charging System	
be reproduced or stored in a		PG Power Supply, Ground & Circuit Elements	
retrieval system, or transmit-	N DRIVER INFORMATION &	MWI Meter, Warning Lamp & Indicator	
ted in any form, or by any	MULTIMEDIA	WCS Warning Chime System	
means, electronic, mechani-		AV Audio, Visual & Navigation System	
cal, recording or otherwise,	O CRUISE CONTROL &	CCS Cruise Control System	
without the prior written per-	DRIVER ASSISTANCE	DAS Driver Assistance System	
mission of NISSAN MOTOR			
CO., LTD.	P MAINTENANCE	MA Maintenance	

FOREWORD

This manual contains maintenance and repair procedure for the 2014 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.

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NISSAN PLEASE HELP MAKE THIS SE	
	RVICE 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 y	ou may have regarding our Service Manuals.
Please print this form and type or write your comr	nents below. Mail or fax to:
Nissan North America, I Technical Service Inform 39001 Sunrise Drive, P. Farmington Hills, MI US FAX: (248) 488-3880	nation O. Box 9200
SERVICE MANUAL: Model:	Year:
PUBLICATION NO. (Refer to Quick Reference Index	
Please describe any Service Manual issues or problem	-
Page number(s) Note: Please inc	clude a copy of each page, marked with your comments.
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QUICK REFERENCE CHART QUEST ENGINE TUNE-UP DATA (VQ35DE)

PFP:00000

2014

ENGINE TUNE-	UP DATA	(VQ35DE)	ELS0003	
Engine model			VQ35DE	
Firing order			1-2-3-4-5-6	
Idle speed CVT (In "P" or "N" positio	n)	rpm	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)		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 te	estingpressure	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	9	FXE22HR11	
	Con	Standard	1.1 mm (0.043 in)	
	Gap	Limit	1.4 mm (0.055 in)	

FRONT WHEEL ALIGNMENT

FOR USA MODELS

ltem		Standard		
	item		Left side	Right side
		Minimum	-1° 00′ (-1.00°)	–1° 15′ (–1.25°)
Cambe	ər	Nominal	–0° 15′ (–0.25°)	-0° 30′ (-0.50°)
Degree	e minute (Decimal degree)	Maximum	0° 30′ (0.50°)	0° 15′ (0.25°)
		Left and right difference*1	–0° 18′ (–0.30°) - 0° 48′ (0.80°)
		Minimum	3° 55′ (3.92°)	4° 05′ (4.09°)
Caster		Nominal	4° 40′ (4.67°)	4° 50′ (4.83°)
Degree	e minute (Decimal degree)	Maximum	5° 25′ (5.41°)	5° 35′ (5.58°)
		Left and right difference*1	-0° 18′ (-0.30°) - 0° 48′ (0.80°)	
		Minimum	12° 00′ (12.00°)	
	n inclination e minute (Decimal degree)	Nominal	12° 45′	(12.75°)
Dogiot		Maximum	13° 30′	(13.50°)
		Minimum	Out 1.4 mr	m (0.055 in)
	Total toe-in Distance	Nominal	In 0.6 mm	n (0.024 in)
Toe-in	Maximum		In 2.6 mm	n (0.102 in)
106-111		Minimum	ln 0° 00	' (ln 0.0°)
	Total toe-angle Degree minute (Decimal degree)	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.

FOR CANADA MODELS

For 3.5S Grade

ltem		Standard		
		Left side	Right side	
		Minimum	-1° 00′ (-1.00°)	-1° 15′ (-1.25°)
Cambe	er	Nominal	–0° 15′ (–0.25°)	-0° 30′ (-0.50°)
Degree	e minute (Decimal degree)	Maximum	0° 30′ (0.50°)	0° 15′ (0.25°)
		Left and right difference*1	-0° 18′ (-0.30°) - 0° 48′ (0.80°)
	Minimum		3° 50′ (3.84°)	4° 05′ (4.09°)
Caster		Nominal	4° 35′ (4.58°)	4° 50′ (4.83°)
Degree	e minute (Decimal degree)	Maximum	5° 20′ (5.33°)	5° 35′ (5.58°)
		Left and right difference*1	-0° 18′ (-0.30°) - 0° 48′ (0.80°)	
		Minimum	12° 00′ (12.00°)	
01	n inclination e minute (Decimal degree)	Nominal	12° 45′	(12.75°)
Dogiot		Maximum	13° 30′	(13.50°)
		Minimum	Out 1.4 mr	n (0.055 in)
	Total toe-in Distance	Nominal	In 0.6 mm (0.024 in)	
Taa in	Distance	Maximum	In 2.6 mm	ı (0.102 in)
Toe-in		Minimum	In 0° 00′	′ (ln 0.0°)
	Total toe-angle Degree minute (Decimal degree)	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.

ELS0003X

For 3.5SV Grade

Item		Standard		
		Left side	Right side	
		Minimum	-1° 00′ (-1.00°)	-1° 15′ (-1.25°)
Cambe	PL	Nominal	-0° 15′ (-0.25°)	-0° 30′ (-0.50°)
Degree	e minute (Decimal degree)	Maximum	0° 30′ (0.50°)	0° 15′ (0.25°)
		Left and right difference*1	-0° 18′ (-0.30°)) - 0° 48′ (0.80°)
		Minimum	3° 50′ (3.84°)	4° 00′ (4.00°)
Caster		Nominal	4° 35′ (4.58°)	4° 45′ (4.75°)
Degree	e minute (Decimal degree)	Maximum	5° 20′ (5.33°)	5° 30′ (5.50°)
		Left and right difference*1	-0° 18′ (-0.30°) - 0° 48′ (0.80°)	
		Minimum	12° 00′ (12.00°)	
01	n inclination e minute (Decimal degree)	Nominal	12° 45′	(12.75°)
Dogroe		Maximum	13° 30′	(13.50°)
		Minimum	Out 1.4 mm (0.055 in)	
	Total toe-in Distance	Nominal	In 0.6 mm (0.024 in)	
Taain	Distance	Maximum	In 2.6 mm (0.102 in)	
Toe-in		Minimum	In 0° 00′	(ln 0.0°)
	Total toe-angle Degree minute (Decimal degree)	Nominal	ln 0° 08′ (ln 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.

For 3.5SL and 3.5LE Grade

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

FOR USA MODELS

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 to		Minimum	In 1.2 mm (0.047 in)
	Total toe-in Distance	Nominal	In 2.8 mm (0.110 in)
		Maximum	In 4.4 mm (0.173 in)
		Minimum	In 0° 06′ (In 0.1°)
	Total toe-angle Degree minute (Decimal degree)	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.

FOR CANADA MODELS

Item		Stand	lard	
Wheel s	Wheel size		16 inch	18 inch
Minimum		Minimum	-1° 05′ (–1.08°)
Camber Degree	minute (Decimal degree)	Nominal	-0° 35′ (-0.58°) -0° 05′ (-0.09°)	
Dogioo		Maximum		
		Minimum	In 0.8 mm (0.031 in)	In 0.9 mm (0.035 in)
	Total toe-in Distance	Nominal	In 2.4 mm (0.094 in)	In 2.5 mm (0.098 in)
Toe-in	Distance	Maximum	In 4.0 mm (0.157 in)	In 4.1 mm (0.161 in)
ioe-in		Minimum In		In 0.07°)
	Total toe-angle Degree minute (Decimal degree)	Nominal	In 0° 12′ (In 0.2°)	
		Maximum	ln 0° 20′ (ln 0.33°)	

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)

ELS0003Y

FRONT DISC BRAKE

Unit:	mm	(in)

2014

Item		Limit	
Brake pad	Wear thickness	2.0 (0.079)	
Disc rotor	Wear thickness	26.0 (1.024)	
	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)	
DISCIDIO	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
	Drain and refill		
	With oil filter change	4.6	4-7/8 qt
Engine oil capacity	Without oil filter change	4.3	4-1/2 qt
	Dry engine (Overhaul)	5.3	5-5/8 qt
Transmission	CVT	10.2	9 qt
Power steering system		1.0	1-1/8 qt
Air conditioning overem	Compressor oil	0.25	8.5 fl oz
Air conditioning system	Refrigerant	0.9 kg	1.98 lb