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C ELECTRIC POWER TRAIN		Starting System
C ELECTRIC POWER TRAIN	ACC	
o Ellomoronen mann		Accelerator Control System
D TRANSMISSION & DRIVELINE		Towns and a Communication
	I M	Transaxle & Transmission
	ΕΛΥ	Front Axle
		Rear Axle
E SUSPENSION	FSU	Front Suspension
	RSU	Rear Suspension
	WT	Road Wheels & Tires
F BRAKES	BR	Brake System
	PB	Parking Brake System
		Brake Control System
G STEERING		Steering System
U DECTRANITO		Steering Control System
H RESTRAINTS	28	Seat Belt
	SD.	SRS Airbag
		SRS Airbag Control System
I VENTILATION, HEATER & AIR		Ventilation System
CONDITIONER		Heater & Air Conditioning System
	HAC	Heater & Air Conditioning Control System
J BODY INTERIOR	INT	Interior
	IP	Instrument Panel
		Seat
		Automatic Drive Positioner
ROOF & VEHICLE SECURITY		Door & Lock
KOOL & VEHICLE GEOCKITT		Security Control System
		Glass & Window System Power Window Control System
		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 & BOWER CON	DWG	Power Outlet
		Power Outlet Body Control System
-		LAN System
		Power Control System
		Charging System
	PG	Power Supply, Ground & Circuit Elements
N DRIVER INFORMATION &	MWI	Meter, Warning Lamp & Indicator
MULTIMEDIA	WCS	Warning Chime System
	AV	Audio, Visual & Navigation System
		Cruise Control System
DRIVER ASSISTANCE	DAS	Driver Assistance System
D. MAINTENANCE	N/A	Majatawanaa
F WAIN I ENANCE	MA	Maintenance
	E SUSPENSION F BRAKES G STEERING H RESTRAINTS I VENTILATION, HEATER & AIR CONDITIONER J BODY INTERIOR K BODY EXTERIOR, DOORS, ROOF & VEHICLE SECURITY L DRIVER CONTROLS M ELECTRICAL & POWER CONTROL N DRIVER INFORMATION &	E SUSPENSION FAX RAX RAX E SUSPENSION FSU RSU WT F BRAKES BR BRC G STEERING ST STC H RESTRAINTS SB SR SRC SRC SRC SRC SRC SRC SRC SRC SRC

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FOREWORD

This manual contains maintenance and repair procedure for the 2013 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. Are the trouble diagnosis procedures logical and easy to use? (circle your answer) 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) 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: ___ _____ STATE/PROV./COUNTRY: _____ ZIP/POSTAL CODE: ____

QUICK REFERENCE CHART QUEST ENGINE TUNE-UP DATA (VQ35DE)

PFP:00000

ELS0003W

Engine model			VQ35DE
Firing order			1-2-3-4-5-6
Idle speed CVT (In "P" or "N" position	on)	rpm	650 ± 50
Ignition timing (BTDC at 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 press	ure	kPa (kg/cm², psi)	
	Standard		122.3 - 151.7 (1.2 - 1.5, 17.7 - 22.0)
	Limit		108 (1.1, 15.6)
Cooling system leakage t	esting pressure	kPa (kg/cm², psi)	156 (1.59, 22.6)
Compression pressure		kPa (kg/cm², psi)/rpm	
	Standard		1,275 (13.0, 185)/300
	Minimum		981 (10.0, 142)/300
Spark plug	Make		DENSO
	Standard type)	FXE22HR11
	Con	Standard	1.1 mm (0.043 in)
	Gap	Limit	1.4 mm (0.055 in)

ELS0003X

FRONT WHEEL ALIGNMENT

FOR USA MODELS Standard

	Item		Standard		
	nem		Left side	Right side	
		Minimum	-1° 00′ (-1.00°)	-1° 15′ (-1.25°)	
Cambe	Camber	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	Degree 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°)		
_ og. oc	,a.o (2 comiai deg.co)	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)		
Toe-in	2.566.765	Maximum	In 2.6 mm (0.102 in)		
		Minimum	In 0° 00′ (In 0.0°)		
	Total toe-angle Degree minute (Decimal degree)	Nominal	In 0° 08′	(In 0.13°)	
	Degree minute (Decimal degree)	Maximum	In 0° 16′ (In 0.27°)		

Measure value under unladen*2 conditions.

FOR CANADA MODELS

For 3.5S Grade

	ltem		Standard	
	пеш		Left side	Right side
		Minimum	-1° 00′ (-1.00°)	-1° 15′ (-1.25°)
Cambe	er 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 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°)	
٠.	n inclination e minute (Decimal degree)	Nominal	12° 45′ (12.75°)	
Dog.o.	o minute (Beelman degree)	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 Total toe-angle Degree minute (Decimal degree)	Maximum	In 2.6 mm	(0.102 in)	
		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.

^{*1:} A difference when assuming the left side a standard.

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For 3.5SV Grade

	Item		Standard		
	Item		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° 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°)	
	n inclination e minute (Decimal degree)	Nominal	12° 45′ (12.75°)		
Dog.oc	o minute (Decimal degree)	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 Total toe-angle	2.0303	Maximum	In 2.6 mm (0.102 in)		
		Minimum	In 0° 00′ (In 0.0°)		
	Total toe-angle Degree minute (Decimal degree)	Nominal	In 0° 08′	In 0° 08′ (In 0.13°)	
	20g. 00 mm.a.o (200mar dogroo)	Maximum	In 0° 16′	(In 0.27°)	

Measure value under unladen*2 conditions.

For 3.5SL and 3.5LE Grade

ltem		Standard		
	пеш		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	Degree 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°)
Dogio	o minute (Beenman degree)	Maximum	13° 30′	(13.50°)
		Minimum	Out 1.4 mr	m (0.055 in)
	Total toe-in Distance	Nominal	In 0.6 mm (0.024 in)	
Toe-in	Maximum	In 2.6 mm	(0.102 in)	
		Minimum	In 0° 00′ (In 0.0°)	
	Total toe-angle Degree minute (Decimal degree)	Nominal	In 0° 08′ (In 0.13°)	
	Degree minute (Decimal degree)	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.

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REAR WHEEL ALIGNMENT

FOR USA MODELS

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

Measure value under unladen* conditions.

FOR CANADA MODELS

	Item		Stand	dard
Wheel s	size		16 inch	18 inch
Minimum		Minimum	-1° 05′ (-1.08°)	
Camber Degree	minute (Decimal degree)	Nominal	−0° 35′ (-	-0.58°)
Dogroo minato (Doomar aogroo)		Maximum	-0° 05′ (-0.09°)	
		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	2 10101.100	Maximum	In 4.0 mm (0.157 in)	In 4.1 mm (0.161 in)
106-111	Total toe-angle Degree minute (Decimal degree)	Minimum	In 0° 04′ (In 0.07°)	
		Nominal	In 0° 12′ (In 0.2°)	
	Degree minute (Decimal degree)		In 0° 20′ (In 0.33°)	

Measure value under unladen* conditions.

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

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

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

FRONT DISC BRAKE

Unit: mm (in)

	Item	Limit
Brake pad	Wear thickness	2.0 (0.079)
Disc rotor	Wear thickness	26.0 (1.024)
DISC TOTOI	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)
DISCIOIOI	Runout (with it attached to the vehicle)	0.050 (0.0020)

FREFILL 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			
Engine oil consoity	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	10-3/4 qt
Power steering system		1.0	1-1/8 qt
Compressor oil		0.25	8.5 fl oz
Air conditioning system	Refrigerant	0.9 kg	1.98 lb