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FOREWORD

This manual contains maintenance and repair procedure for the 2014 INFINITI QX50.

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.



PLEASE HELP MAKE THIS SERVIC	E MANUAL BETTER!
	A second s
Your comments are important to INFINITI and will help us to improv	
Use this form to report any issues or comments you may have rega	•
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 eac	ch page, marked with your comments.
Are the trouble diagnosis procedures logical and easy to use? (circle	
If no, what page number(s)?Note: Please include a copy of ea	
Please describe the issue or problem in detail:	
Is the organization of the manual clear and easy to follow? (circle yo	our answer) YES NO
Please comment:	
What information should be included in INFINITI Service Manuals to	better support you in servicing or
repairing customer vehicles?	
DATE: YOUR NAME:	
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CITY: STATE/PROV./COUNTRY:	ZIP/POSTAL CODE:

QUICK REFERENCE CHART QX50

QUICK REFERENCE CHART QX50 ENGINE TUNE-UP DATA (VQ37VHR)

Gap(Nominal)

ENGINE TUNE	UP DATA (VQ37VHR)	ELS0003W
Engine model		VQ37VHR
Firing order		1-2-3-4-5-6
Idle speed (In "N" position)	rpm	650 ± 50
Ignition timing (BTDC at (In "N" position)	idle speed)	$10^{\circ} \pm 5^{\circ}$
Tensions of drive belt		Belt tension is not necessary, as it is automatically adjusted by drive belt auto-tensioner.
Radiator cap relief press	sure kPa (kg/cm ² , psi)	
	Standard	122.3 - 151.7 (1.2 - 1.5, 18 - 22)
	Limit	107 (1.1, 16)
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)
	Make	DENSO
Spark plug (Iridium-tipped type)	Standard type	FXE24HR11
(Con (Naminal)	1 1 (0 0 12)

mm (in)

1.1 (0.043)

PFP:00000

FRONT WHEEL ALIGNMENT

ELS0003X

Item			Standard
Camber Degree minute (Decimal degree)		Minimum	-0° 40′ (-0.66°)
		Nominal	0° 05′ (0.08°)
		Maximum	0° 50′ (0.83°)
		Left and right difference	0° 33′ (0.55°) or less
		Minimum	3° 30′ (3.50°)
Caster		Nominal	4° 15′ (4.25°)
Degree minute (Decimal degree)		Maximum	5° 00′ (5.00°)
		Left and right difference	0° 39′ (0.65°) or less
		Minimum	6° 05′ (6.09°)
	nclination ninute (Decimal degree)	Nominal	6° 50′ (6.83°)
Degree minute (Decimal degree)		Maximum	7° 35′ (7.58°)
		Minimum	Out 1 mm (Out 0.03 in)
Total toe-in Distance Toe-in Total toe-angle	Nominal	In 1 mm (In 0.04 in)	
	Distance	Maximum	In 3 mm (In 0.11 in)
		Minimum	Out 0° 04' 48" (Out 0.08°)
	Total toe-angle Degree minute (Decimal degree)	Nominal	ln 0° 04′ 48″ (ln 0.08°)
		Maximum	ln 0° 14′ 24″ (ln 0.24°)

Measure value under unladen* conditions.

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

AWD

Item			Standard
Camber Degree minute (Decimal degree)		Minimum	-1° 05′ (-1.08°)
		Nominal	-0° 20′ (-0.33°)
		Maximum	0° 25′ (0.41°)
		Left and right difference	0° 33′ (0.55°) or less
		Minimum	3° 25′ (3.42°)
Caster		Nominal	4° 10′ (4.17°)
Degree minute (Decimal degree)		Maximum	4° 55′ (4.91°)
		Left and right difference	0° 39′ (0.65°) or less
		Minimum	6° 35′ (6.59°)
	nclination ninute (Decimal degree)	Nominal	7° 20′ (7.33°)
		Maximum	8° 05′ (8.08°)
		Minimum	Out 1 mm (Out 0.03 in)
Total toe-in Distance Toe-in		Nominal	In 1 mm (In 0.04 in)
	2.000.000	Maximum	In 3 mm (In 0.11 in)
		Minimum	Out 0° 04' 48" (Out 0.08°)
	Total toe-angle Degree minute (Decimal degree)	Nominal	ln 0° 04′ 48″ (ln 0.08°)
		Maximum	ln 0° 14′ 24″ (ln 0.24°)

Measure value under unladen* conditions.

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

QUICK REFERENCE CHART QX50

REAR WHEEL ALIGNMENT

ELS0003Y

2014

Item		Standard	
Camber Degree minute (Decimal degree)		Minimum	-1° 05′ (-1.08°)
		Nominal	-0° 35′ (-0.58°)
		Maximum	-0° 05′ (-0.09°)
Toe-in	Total toe-in Distance	Minimum	0 mm (0 in)
		Nominal	In 2.9 mm (In 0.114 in)
		Maximum	In 5.8 mm (In 0.228 in)
		Minimum	0° 00′ (0.00°)
	Total toe-angle Degree minute (Decimal degree)	Nominal	ln 0° 14′ 24″ (ln 0.24°)
		Maximum	In 0° 28′ 12″ (In 0.47°)

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

Item	Standard		
Brake pedal height	Without DCA 171.5 – 181.5 (6.75 – 7.15)		
Diake peda neight	With DCA	158.4 – 195.4 (7.30 – 7.69)	
Clearance between the stop lamp switch and ASCD brake switch threaded end and the stopper rubber	0.74 – 1.96 (0.0291 – 0.0772)		
Brake pedal play		3.0 – 11.0 (0.118 – 0.433)	
Depressed brake pedal height	Without DCA	114.0 (4.49) or more	
[Depressing 490 N (50 kg, 110 lb) while turning the engine ON]	With DCA	120.8 (4.76) or more	

FRONT DISC BRAKE

		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)

REAR DISC BRAKE

Unit:	mm	(in)
Unit.		(111)

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)

QUICK REFERENCE CHART QX50

REFILL CAPACITIES

ELS00040

UNIT		Liter	US measure
Fuel tank		Applox. 76	20 gal
Engine Coolant (With reservoir tank) at MAX level		8.6	9-1/8 qt
	Drain and refill		
Engine oil	With oil filter change	4.9	5-1/8 qt
Engine oil	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
Transfer		1.0	2-1/8 pt
Final drive	Front	0.65	1-3/8 pt
Final unve	Rear	1.4	3 pt
Power steering system		1.0	1-1/8 qt
	Compressor oil	0.15	5.07 fl oz
Air conditioning system	Refrigerant	0.55 kg	1.21 lb