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FOREWORD

This manual contains maintenance and repair procedure for the 2014 INFINITI QX80.

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

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 SERVICE MANUAL BETTER!

Your comments are important to INFINITI 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 INFINITI 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 QX80 ENGINE TUNE-UP DATA (VK56VD)

PFP:00000

ELS0003W

Engine model			VK56VD	
Firing order		1-8-7-3-6-5-4-2		
Idle speed rpm (In "P or N" position)		rpm	600 ± 50	
Ignition timing (BTDC at idle speed) (In "P or N" position)			12° ± 2°	
Tensions of drive belt			Belt tension is not necessary, as it is automaticall adjusted by drive belt auto-tensioner.	
Radiator cap relief press	ure	kPa (kg/cm ² , psi)		
Standard Limit			108.2 - 127.8 (1.1 - 1.3, 15.7 - 18.5)	
			98 (1.0, 14)	
Cooling system leakage testing pressure kPa (kg/cm², psi)		e kPa (kg/cm², psi)	186 (1.9, 27)	
Compression pressure		kPa (kg/cm ² , psi)/rpm		
	Standard		1,667 (17, 242)/200	
	Minimum		1,226 (12.5, 178)/200	
	Differential	limit between cylinders	98 (1.0, 14)/200	
	Make		NGK	
Spark plug (Iridium-tipped type)	Standard ty	/pe	DILKAR7B11	
	Con	Standard	1.1 mm (0.043 in)	
	Gap Limit		1.25 mm (0.049 in)	

FRONT WHEEL ALIGNMENT

ELS0003X

ltem		Standard		
Measurement wheel		Left side	Right side	
Camber Degree minute (Decimal degree)		Minimum	-0°45′ (-0.75°)	-0°55′ (-0.91°)
		Nominal	0° 00′ (0.00°)	-0°10′ (-0.17°)
		Maximum	0° 45′ (0.75°)	0° 35′ (0.58°)
		Left and right difference	0° 33′ (0.5	5°) or less
		Minimum	2° 20′ (2.34°)	2° 40′ (2.67°)
Caster		Nominal	3° 05′ (3.08°)	3° 25′ (3.42°)
Degree mi	nute (Decimal degree)	Maximum	3° 50′ (3.83°)	4° 10′ (4.16°)
		Left and right difference	0° 45′ (0.75°) or less	
		Minimum	_	_
Kingpin ind Degree mi	clination nute (Decimal degree)	Nominal	13° 20′ (13.33°) ^{*1}	13° 25′ (13.42°) ^{*1}
Dogree minate (Boomai dogree)		Maximum	_	_
		Minimum	In 0.4 mm (In 0.015 in)	
-	Total toe-in Distance	Nominal	In 2.4 mm (In 0.094 in)	
	Distance	Maximum	In 4.4 mm (In 0.173 in)	
		Minimum	In 0° 01′ 48″ (In 0.03°)	
	Total toe-angle Degree minute (Decimal degree)	Nominal	In 0° 10′ 12	" (In 0.17°)
	Dograd Hillato (Dodinal degree)	Maximum	In 0° 18′ 00″ (In 0.30°)	

Measure value under unladen*2 conditions.

REAR WHEEL ALIGNMENT

ELS0003Y

ltem			Standard	
Camber Degree minute (Decimal degree)		Minimum	-1° 00′ (-1.00°)	
		Nominal	-0° 30′ (-0.50°)	
		Maximum	0° 00′ (0.00°)	
		Left and right difference	0° 45′ (0.75°) or less	
		Minimum	0 mm (0 in)	
	Total toe-in Distance	Nominal	In 3.4 mm (In 0.134 in)	
Toe-in	Distance	Maximum	In 6.8 mm (In 0.268 in)	
		Minimum	0° 00′ (0.00°)	
	Total toe-angle Degree minute (Decimal degree)	Nominal	In 0° 13′ 48″ (In 0.23°)	
	Degree minate (Decimal degree)	Maximum	In 0° 28′ 12″ (In 0.47°)	

Measure value under unladen* conditions.

^{*1:} The minimum value and maximum value is the same as the nominal value.

^{*2:} 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.

BRAKE PEDAL

Unit: mm (in)

Item	Standard
Brake pedal height	168.5 (6.63) - 178.5 (7.03)
Depressed brake pedal height [Depressing 490 N (50 kg, 110 lb) while turning the engine ON]	100 (3.94) or more
Clearance between stop lamp switch and brake switch threaded end and the brake pedal bracket	0.2 (0.008) - 1.96 (0.0772)
Brake pedal play	3 (0.12) - 11 (0.43)

FRONT DISC BRAKE

Unit: mm (in)

Item		Limit	
Brake pad	Wear thickness	1.5 (0.059)	
Disc rotor	Wear thickness	28.5 (1.122)	
	Thickness variation (measured at 8 positions)	0.015 (0.0006)	
	Runout (with it attached to the vehicle)	0.053 (0.0021)	

REAR DISC BRAKE

Unit: mm (in)

Item		Limit	
Brake pad Wear thickness		2.0 (0.079)	
Disc rotor	Wear thickness	18.0 (0.709)	
	Thickness variation (measured at 8 positions)	0.015 (0.0006)	
	Runout (with it attached to the vehicle)	0.05 (0.0020)	

REFILL CAPACITIES

ELS00040

UNIT		Liter	US measure
Fuel tank		98.4	26 gal
Engine Coolant (With reservoir tank) at MAX level		14.9	15-6/8 qt
	Drain and refill		
Facing all	With oil filter change	6.5	6-7/8 qt
Engine oil	Without oil filter change	6.2	6-4/8 qt
	Dry engine (Overhaul)	7.6	8 qt
Transmission		10.0	10-5/8 qt
Transfer		1.5	3-1/8 pt
Final drive	Front	0.75	1-5/8 pt
	Rear	1.75	3-3/4 pt
Power steering system		1.0	1-1/8 qt
	Compressor oil	0.21	7.1 fl oz
Air conditioning system	Refrigerant	1.05 kg	2.32 lb