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FOREWORD

This manual contains maintenance and repair procedure for the 2011 INFINITI EX.

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 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: ____

ELS0003W

QUICK REFERENCE CHART EX

QUICK REFERENCE CHART EX ENGINE TUNE-UP DATA (VQ35HR)

PFP:00000

Engine model			VQ35HR	
Firing order			1-2-3-4-5-6	
Idle speed A/T (In "N" position)		rpm	650 ± 50	
Ignition timing (BTDC at idle speed)			16° ± 5°	
Tensions of drive belt			Auto adjustment by auto tensioner	
Radiator cap relief pressure		kPa (kg/cm², psi)		
	Standard		122.3 - 151.7 (1.2 - 1.5, 18 - 22)	
	Limit		107 (1.1, 16)	
Cooling system leakage testing pressure kPa (kg/cm², psi)		kPa (kg/cm², psi)	157 (1.6, 23)	
Compression pressure	ŀ	kPa (kg/cm², psi)/rpm		
	Standard		1,275 (13.0, 185)/300	
	Minimum		981 (10.0, 142)/300	
	Differential limit betwee	n cylinders	98 (1.0, 14)/300	
	Make		DENSO	
Spark plug (Iridium-tipped type)	Standard type		FXE22HR11	
(a.app od typo)	Gap (Nominal)	mm (in)	1.1 (0.043)	

FRONT WHEEL ALIGNMENT 2WD

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 m	inute (Decimal degree)	Maximum	5° 00′ (5.00°)
		Left and right difference	0° 39' (0.65°) or less
		Minimum	6° 05′ (6.09°)
Kingpin in Degree m	clination inute (Decimal degree)	Nominal	6° 50′ (6.83°)
Dog.co m	inate (200inal aug.00)	Maximum	7° 35′ (7.58°)
		Minimum	0 mm (0 in)
	Total toe-in Distance	Nominal	In 1 mm (0.04 in)
T :-		Maximum	In 2 mm (0.08 in)
Toe-in		Minimum	0° 00 (0.00°)
	Toe angle (Left wheel or right wheel) Degree minute (Decimal degree)	Nominal	In 0° 02′ 24″ (0.04°)
	_ = = = (= eoi.na. deg.ee)	Maximum	In 0° 04′ 48″ (0.08°)

Measure value under unladen* conditions.

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 m	ninute (Decimal degree)	Maximum	4° 55′ (4.91°)
		Left and right difference	0° 39′ (0.65°) or less
		Minimum	6° 35′ (6.59°)
Kingpin ir	nclination ninute (Decimal degree)	Nominal	7° 20′ (7.33°)
Bogico ii	mate (200mai dog.00)	Maximum	8° 05′ (8.08°)
		Minimum	0 mm (0 in)
	Total toe-in Distance	Nominal	In 1 mm (0.04 in)
-		Maximum	In 2 mm (0.08 in)
Toe-in	Toe-angle (Left wheel or right wheel) Degree minute (Decimal degree)	Minimum	0° 00′ (0.00°)
		Nominal	In 0° 02′ 24″ (0.04°)
	253.55	Maximum	In 0° 04′ 48″(0.08°)

Measure value under unladen* conditions.

^{*:} 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.

REAR WHEEL ALIGNMENT

ELS0003Y

	Item		Standard
Camber Degree minute (Decimal degree)		Minimum	-1° 05′ (-1.08°)
		Nominal	-0° 35′ (-0.58°)
		Maximum	-0° 05′ (-0.09°)
		Minimum	0 mm (0 in)
Toe-in Toe ar	Total toe-in Distance	Nominal	In 2.9 mm (0.114 in)
	2.013.1100	Maximum	In 5.8 mm (0.228 in)
	Toe angle (Left wheel or right wheel) Degree minute (Decimal degree)	Minimum	0° 00′ (0.00°)
		Nominal	In 0° 07′ (0.12°)
		Maximum	In 0° 14′ (0.23°)

Measure value under unladen* conditions.

BRAKE PEDAL

Unit: mm (in)

Item	Standard	
Brake pedal height	Without DCA 171.5 – 181.5 (6.75 – 7.15)	
	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)
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)	0.035 (0.0014)

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 (0.0006)	
	Runout (with it attached to the vehicle)	0.055 (0.0022)	

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

QUICK REFERENCE CHART EX

REFILL CAPACITIES

ELS00040

UNIT Fuel tank Engine Coolant (With reservoir tank) at MAX level		Liter	US measure
		Applox. 76	20 gal 9-1/8 qt
		8.6	
	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
rinai unve	Rear	1.4	3 pt
Power steering system		1.0	1-1/8 qt
Air conditioning avatam	Compressor oil	0.15	5.07 fl oz
Air conditioning system	Refrigerant	0.55 kg	1.21 lb