Revision: October 2014 A GENERAL INFORMATION GI General Information						
Revision: October 2014 Publication No. SM2E-1J50U2  A GENERAL INFORMATION B FORME B FO	Edition: July 2011	QUICK REFERENCE INDEX				
Publication No. SM2E-1J50U2  B ENGINE  EM Engine Mechanical Co Engine Cooling System Co Engine Cooling System F. Publis System F. Publis System F. Publis System F. Publis System ACC Accelerator Control System ACC Accelerator Control System F. Publis System F. Publis System F. Publis System F. Publis System ACC Accelerator Control System F. Publis System F. Steering System F. Steering System F. Steering System F. Steering System F. Syst	Revision: October 2014	A GENERAL INFORMATION	GI	General Information		
LU Engine Lubrication System CO Engine Cooling System EC Engine Control System EC Engine Control System EC Engine Control System EX Exhaust System ACC Accelerator Control System  The Transaction System ACC Accelerator Control Co	Publication No. SM2E-1J50U2	B ENGINE	EM			
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E SUSPENSION  FSU Front Suspension  RSU Rear Suspension  RSU Rear Suspension  WIT Road Wheels & Tires  F BRAKES  F B						
RSU Roar Suspension  Wit Roard Wheels & Tires  BR Brake System  PR Parking Brake System  RRC Brake Control System  RRC Brake Control System  RRC Brake Control System  STC Steering Control System  SR SRS Airbag  SRC SRS Airbag Control System  FR SRS SRS Airbag  SRC SRS Airbag Control System  SRC SRS Airbag Control System  VENTILATION, HEATER & AIR  I VENTILATION, HEATER & AIR  CONDITIONER  I VENTILATION, HEATER & AIR  CONDITIONER  I VENTILATION, HEATER & AIR  I VENTILATION, HEATER & AIR  CONDITIONER  I VENTILATION, HEATER & AIR  I VENTILATION, HEATER & AIR  ON I Heater & AIR Conditioning System  HA Heater & AIR Conditioning System  HA Heater & AIR Conditioning System  HA Heater & AIR Conditioning System  IP Instrument Panel  SE Seat  ADP Automatic Drive Positioner  DIK Door & Lock  RF ROOI  EXT Exterior  RRM Body Repair  III. Interior Lighting System  William System  William System  William System  III. Interior Lighting System  III. Interior Lighting System  III. Interior Lighting System  William System  OFF Power Outlet  BCS Body Control System  TROL  All Rights Reserved. No part of this Service Manual may be reproduced or stored in a retrieval system, or transmitted in any form, or by any means, electronic, mechanical, recording or otherwise, without the prior written permission of NISSAN MOTOR  AVAILIA VAILING VISUal & Navigation System  DAS Driver Assistance System  DAS Driver Assistance System		E CHEDENCION				
F BRAKES BR Brake System  F BRAKES BR Brake System  BRC Brake Control System  G STEERING ST Steering System  ST Steering System  ST Steering System  F BRAKES BR Brake System  BRC Brake Control System  ST Steering System  ST Steering System  ST Steering System  ST Steering System  SR SR SA Sirbag  SR SR SA Sirbag  SR SR SR SA Sirbag  SR SR SR SR SA Sirbag  SR S		E SUSPENSION				
F BRAKES  BR Brake System  PB Parking Brake System  REC Brake Control System  ST Steering Control System  ST Steering Control System  H RESTRAINTS  SB Seat Belt  SR SRS Airbag  SRC SRS Airbag  SRS Airbag  SRC SRS Airbag  SRS Airbag  SRC SRS Airbag  SRC SRS Airbag  SRS Airbag  SRC SRS Airbag  SRS Airbag  SRC SRS Airbag  SRS Airbag  SRS Airbag  SRC SRS Airbag  S			KOU	Real Suspension		
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MODEL J50 SERIES    BRC   Brake Control System		F BRAKES				
MODEL J50 SERIES    G STEERING   ST Steering System	EX					
G STEERING ST Steering System  H RESTRAINTS SB Seat Belt  SR SRS Airbag SRC SRS Airbag Control System  I VENTILATION, HEATER & AIR CONDITIONER  HA Heater & AIR Conditioning System  HAC Heater & AIR Conditioning Control System  HAC Heater & AIR Conditioning Control System  INT Interior  IP Instrument Panel SE Seat  ADP Automatic Drive Positioner  Duck Oore & Lock SEC Security Control System  GW Glass & Window System  PWC Power Window Control System  RF Roof  EXT Exterior  BRM Body Repair  L DRIVER CONTROLS  MR Mirrors  EXL Exterior Lighting System  WW Wiper & Washer  DEF Defogger  HRN Horn  M ELECTRICAL & POWER CON- TROL  MM ELECTRICAL & POWER CON- TROL  AII Rights Reserved. No part of this Service Manual may be reproduced or stored in a retrieval system, or transmitted in any form, or by any means, electronic, mechanical, recording or otherwise, without the prior written permission of NISSAN MOTOR  BY OR OR SHANDOWN System  O CRUISE CONTROL & DRIVE ASSISTANCE  DAS Driver Assistance System	MODEL J50 SERIES		BRC			
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I VENTILATION, HEATER & AIR CONDITIONER  I VENTILATION, HEATER & AIR CONDITIONER  VTL Ventilation System  HAC Heater & Air Conditioning System  HAC Heater & Air Conditioning Control System  HAC Heater & Air Conditioning Control System  HAC Heater & Air Conditioning Control System  INT Interior  IP Instrument Panel  SE Seat  ADP Automatic Drive Positioner  DLK Door & Lock  SEC Security Control System  PWC Power Window Control System  RF Roof  EXT Exterior  BRIM Body Repair  INL Interior Lighting System  WW Wiper & Washer  DEF Defogger  HRN Horn  All Rights Reserved. No part of this Service Manual may be reproduced or stored in a retrieval system, or transmitted in any form, or by any means, electronic, mechanical, recording or otherwise, without the prior written permission of NISSAN MOTOR  I VENTILATION, HEATER & AIR SRC SRS Airbag Control System  WIL Interior  PWC Power United  BRM Body Repair  INL Interior Lighting System  Wiper & Washer  DEF Defogger  HRN Horn  ALI Rights Reserved. No part of this Service Manual may be reproduced or stored in a retrieval system, or transmit-ted in any form, or by any means, electronic, mechanical, recording or otherwise, without the prior written permission of NISSAN MOTOR						
I VENTILATION, HEATER & AIR CONDITIONER  I VENTILATION, HEATER & AIR CONDITIONING System  HAC Heater & Air Conditioning System  HAC Heater & Air Conditioning Control System  INT Interior  IP Instrument Panel  SE Seat  ADP Automatic Drive Positioner  K BODY EXTERIOR, DOORS, ROOF & VEHICLE SECURITY  GW Glass & Window System  PWC Power Window Control System  RF Roof  L DRIVER CONTROLS  MIR Mirrors  EXT Exterior  BRM Body Repair  INI Interior Lighting System  WW Wiper & Washer  DEF Defogger  HRN Horn  All Rights Reserved. No part of this Service Manual may be reproduced or stored in a retrieval system, or transmitted in any form, or by any means, electronic, mechanical, recording or otherwise, without the prior written permission of NISSAN MOTOR  RS C SR8 Airbag Control System  HAC Heater & Air Conditioning System  INT Interior Lighting Control System  WW Wiper & Window Control System  WW Wiper & Washer  DEF Defogger  HAN LAN System  PCS Power Control System  AV Audio, Visual & Navigation System  CCS Cruise Control System  DAS Driver Assistance System		H RESTRAINTS	SB	Seat Belt		
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# **FOREWORD**

This manual contains maintenance and repair procedure for the 2012 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

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 (In P or N position)		rpm	650 ± 50	
Ignition timing (BTDC at i (In P or N position)	idle speed)		16° ± 5°	
Tensions of drive belt			Belt tension is not necessary, as it is automatically adjusted by drive belt auto-tensioner.	
Radiator cap relief pressu	ure	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/ci		kPa (kg/cm², psi)	157 (1.6, 23)	
Compression pressure		kPa (kg/cm <sup>2</sup> , psi)/rpm		
	Standard		1,275 (13.0, 185)/300	
	Minimum		981 (10.0, 142)/300	
	Differential limit bet	ween cylinders	98 (1.0, 14)/300	
Spark plug (Iridium-tipped type)	Make		DENSO	
	Standard type		FXE22HR11	
	Gap (Nominal)	mm (in)	1.1 (0.043)	

# 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°)
Dog.oo	midio (Dosimai dogres)	Maximum	7° 35′ (7.58°)
		Minimum	Out 1 mm (Out 0.03 in)
Toe-in	Total toe-in Distance	Nominal	In 1 mm (In 0.04 in)
		Maximum	In 3 mm (In 0.11 in)
		Minimum	Out 0° 04′ 48" (Out 0.08°)
	Total toe-angle Degree minute (Decimal degree)	Nominal	In 0° 04′ 48″ (In 0.08°)
	2 - 5 - 5 - 1111/10 (2 -	Maximum	In 0° 14′ 24″ (In 0.24°)

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
Caster Degree minute (Decimal degree)		Minimum	3° 25′ (3.42°)
		Nominal	4° 10′ (4.17°)
		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°)
Degree minute (Decimal degree)		Maximum	8° 05′ (8.08°)
		Minimum	Out 1 mm (Out 0.03 in)
Toe-in	Total toe-in Distance	Nominal	In 1 mm (In 0.04 in)
		Maximum	In 3 mm (In 0.11 in)
	Total toe-angle Degree minute (Decimal degree)	Minimum	Out 0° 04′ 48″ (Out 0.08°)
		Nominal	In 0° 04′ 48″ (In 0.08°)
	_ = = =a.c (2 =a. a = g = e e e	Maximum	In 0° 14′ 24″ (In 0.24°)

Measure value under unladen\* conditions.

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

<sup>\*:</sup> 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)
	Total toe-in Distance	Nominal	In 2.9 mm (0.114 in)
Toe-in	Diotalies	Maximum	In 5.8 mm (0.228 in)
Т	Total toe-angle Degree minute (Decimal degree)	Minimum	0° 00′ (0.00°)
		Nominal	In 0° 14′ 24″ (In 0.24°)
		Maximum	In 0° 28′ 12″ (In 0.47°)

Measure value under unladen\* conditions.

#### **BRAKE PEDAL**

Unit: mm (in)

Item	Standard	
Proke padal height	Without DCA	171.5 – 181.5 (6.75 – 7.15)
Brake pedal height	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)

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

# **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
Filial drive	Rear	1.4	3 pt
Power steering system		1.0	1-1/8 qt
Air conditioning system	Compressor oil	0.15	5.07 fl oz
	Refrigerant	0.55 kg	1.21 lb