Edition: August 2013	QUICK REFERENCE INDEX		
Revision: August 2013	A GENERAL INFORMATION	GI General Information	
Pub. No. SM14E0TA60U0	B ENGINE	EM Engine Mechanical	
		LU Engine Lubrication System	
		CO Engine Cooling System	
		EC Engine Control System	
		FL Fuel System	
		EX Exhaust System	
		STR Starting System	
		ACC Accelerator Control System	
	C HYBRID	HBC Hybrid Control System	
		HBB Hybrid Battery System	
		HBR Hybrid Brake System	
	D TRANSMISSION & DRIVE- LINE	TM Transaxle & Transmission	
		DLN Driveline FAX Front Axle	
		RAX Rear Axle	
	E SUSPENSION	FSU Front Suspension	
	E SUSPENSION	RSU Rear Suspension	
		SCS Suspension Control System	
NISSAN		WT Road Wheels & Tires	
ARMADA	F BRAKES	BR Brake System	
		PB Parking Brake System	
MODEL TAGO SERIES		BRC Brake Control System	
	G STEERING	ST Steering System	
		STC Steering Control System	
	H RESTRAINTS	SB Seat Belt	
		SBC Seat Belt Control System	
		SR SRS Airbag	
		SRC SRS Airbag Control System	
	I VENTILATION, HEATER &	VTL Ventilation System	
	AIR CONDITIONER	HA Heater & Air Conditioning System	
		HAC Heater & Air Conditioning Control System	
	J BODY INTERIOR	INT Interior	
		IP Instrument Panel	
		SE Seat	
		ADP Automatic Drive Postioner	
		AP Adjustable Pedal	
	K BODY EXTERIOR, DOORS, ROOF & VEHICLE	DLK Door & Lock SEC Security Control System	
	SECURITY	GW Glass & Window System	
		PWC Power Window Control System	
		RF Roof	
		EXT Exterior	
		BRM Body Repair Manual	
	L DRIVER CONTROLS	MIR Mirrors	
		EXL Exterior Lighting System	
		INL Interior Lighting System	
		WW Wiper & Washer	
		DEF Defogger	
		HRN Horn	
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of this Service Manual may	CONTROL	BCS Body Control System	
be reproduced or stored in a		LAN LAN System	
retrieval system, or transmit-		PCS Power Control System	
ted in any form, or by any		CHG Charging System	
		PG Power Supply, Ground & Circuit Elements	
means, electronic, mechani-	N DRIVER INFORMATION & MULTIMEDIA	MWI Meter, Warning Lamp & Indicator	
cal, photo-copying, record-	MOLINIEDIA	WCS Warning Chime System	
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prior written permission of		AV Audio, Visual & Navigation System	
Nissan North America, Inc.	O CRUISE CONTROL	CCS Cruise Control System MA Maintenance	
	P MAINTENANCE		

FOREWORD

This manual contains maintenance and repair procedures for the 2014 NISSAN ARMADA.

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 NORTH AMERICA, INC. Technical Publications Department

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CITY:	STATE/PROV./COUNTRY:	ZIP/POSTAL CODE:					

Engine Tune-up Data

GENERAL SPECIFICATIONS

Cylinder arrangemen	t			V	-8
Displacement cm ³ (įin ³)			5,552 (338.80)
Bore and stroke mm (in)			98 x 92 (3.86 x 3.62)		
Valve arrangement			DC	HC	
Firing order			1-8-7-3	-6-5-4-2	
Number of piston ring	10	Compression		:	2
	J 5	Oil			1
Number of main bear	ings	-		ł	5
Compression ratio				9.8	3:1
0		Standard		1,520 (15.	5, 220)/200
Compression pressur kPa (kg/cm ² , psi)/rpm		Minimum		1,324 (13.	5, 192)/200
		Differential limit betw	een cylinders	98 (1.0,	14)/200
			Front	SEM957C	
Valve timing			POINECTON OF ROJATION OF ATTON OF ATTON OF ATTAKE	Shart Shart Shart Shart	
	Γ	1			Unit: degree
	h	С	d	е	-
a 244°	b 232°	-8°	60°	10°	f 54°

DRIVE BELTS

Tension of drive belts	Auto adjustment by auto-tensioner

SPARK PLUG

INFOID:000000010176952

2014 Unit: mm (in)

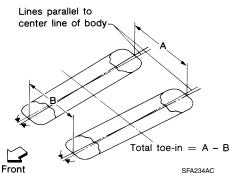
Make	NGK		
Model	Standard model	FFV model	
Standard type*	DILFR5A-11	DILFR5A-11D	
Gap (Nominal)	1.1 (0.043)	1.1 (0.043)	

*: Always check with the Parts Department for the latest parts information.

Front Wheel Alignment (Unladen*1)

INFOID:000000010176942

Drive type Suspension		2'	WD	4WD	
		Standard	With air leveling	Standard	With air leveling
	Minimum	-0° 51′	-0° 51′ (-0.85°)		(-0.55°)
Camber Degree minute (decimal degree)	Nominal	-0° 6′	-0° 6′ (-0.10°)		(0.20°)
	Maximum	0° 39′ (0.65°)		0° 57′ (0.95°)	
	Cross camber	0° 45′ (0.75°) or less		$0^\circ~45'~(0.75^\circ)$ or less	
Caster Degree minute (decimal degree)	Minimum	2° 39′ (2.65°)	3° 15′ (3.25°)	2° 15′ (2.25°)	2°45′ (2.75°)
	Nominal	3° 24′ (3.40°)	4° 0′ (4.00°)	3° 0′ (3.00°)	3° 30′ (3.50°)
	Maximum	4° 09′ (4.15°)	4° 45′ (4.75°)	3° 45′ (3.75°)	4° 15′ (4.25°)
	Cross caster	0° 45′ (0.75°) or less		0° 45' (0.75°) or less	
Kingpin inclination Degree minute (decimal degree)		13° 32′ (13.53°)		13°13′ (13.22°)	



		Tion	SFA234AC	
		Minimum	Minimum In 0.5 mm (In 0.02 in)	
Distance (A – B)	Total toe-in Distance (A – B)	Nominal	In 2.5 mm (In 0.10 in)	
		Maximum		(In 0.17 in)
Toe-in	Total toe-in Angle Degree minute (decimal degree)	Minimum	In 0° 0′ 36″ (In 0.01°)	
		Nominal	ln 0° 10′ 12″ (ln 0.17°)	
		Maximum	In 0° 19′ 48″ (In 0.33°)	
Wheel turning	Inside Degree minute (decimal degree)		34° 31′ – 38° 31′ *2 (34.52° – 38.52°)	34° 44′ – 38° 44′ *4 (34.73° – 38.73°)
(full turn)	angle (full turn) Outside Degree minute (decimal o		30° 59′ – 34° 59′ *3 (30.98° – 34.98°)	30° 29′ – 34° 29′ *5 (30.48° – 34.48°)

*1: Fuel, radiator coolant and engine oil full. Spare tire, jack, hand tools and mats in designated positions.

*2: Target value 37° 31' (37.52°)

*3: Target value 33° 59' (33.98°)

*4: Target value 37° 44′ (37.73°)

*5: Target value 33° 29' (33.48°)

Rear Wheel Alignment (Unladen^{*1})

INFOID:000000010176941

2014

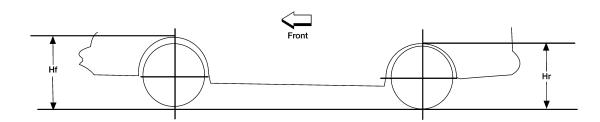
Suspension			Standard	With air leveling
		Minimum	- 0° 25′ (- 0.4°)	- 1° 0′ (- 1°)
Camber		Nominal	0° 5′ (0.1°)	- 0° 30′ (- 0.5°)
Degree minute (decimal degree)		Maximum	0° 35′ (0.6°)	0° 0′ (0°)
Cross camber			0° 45' (0.7	5°) or less
	Lines parallel to center line of boo	ty		
	B			
		Total toe-in = $A - B$		
	Front	Total toe-in = A - B SFA234AC		
	Front		Out 2.4 mm (Out 0.094 in)	0 mm (0 in)
	Front Total toe-in	SFA234AC	Out 2.4 mm (Out 0.094 in) In 0.9 mm (In 0.035 in)	0 mm (0 in) In 3.3 mm (In 0.130 in)
		SFA234AC Minimum	· · · ·	. ,
Too in	Total toe-in	sfa234AC Minimum Nominal	In 0.9 mm (In 0.035 in)	In 3.3 mm (In 0.130 in) In 6.6 mm (In 0.260 in)
Toe-in	Total toe-in Distance (A-B)	SFA234AC Minimum Nominal Maximum	In 0.9 mm (In 0.035 in) In 4.2 mm (In 0.165 in)	In 3.3 mm (In 0.130 in) In 6.6 mm (In 0.260 in)
Toe-in	Total toe-in	SFA234AC Minimum Nominal Maximum Cross toe	In 0.9 mm (In 0.035 in) In 4.2 mm (In 0.165 in) 2 mm (0.07	In 3.3 mm (In 0.130 in) In 6.6 mm (In 0.260 in) 9 in) or less
Toe-in	Total toe-in Distance (A-B) Total toe-in	SFA234AC Minimum Nominal Maximum Cross toe Minimum	In 0.9 mm (In 0.035 in) In 4.2 mm (In 0.165 in) 2 mm (0.07 Out 0° 8' 24" (Out 0.14°)	In 3.3 mm (In 0.130 in) In 6.6 mm (In 0.260 in) 9 in) or less In 0° 1' 12″ (In 0.02°)

*1: Fuel tank, engine coolant and engine oil full. Spare tire, jack, hand tools and mats in designated positions.

Wheelarch Height (Unladen*1)

INFOID:000000010176940

Unit: mm (in)



LEIA0085E

Suspension type	With air leveling* ²				Without a	air leveling		
Applied model	2\	VD	4	ND	2\	ND	4\	ND
Tire size	P265/	P275/	P265/	P275/	P265/	P275/	P265/	P275/
	70R18	60R20	70R18	60R20	70R18	60R20	70R18	60R20
Front wheelarch	914	920	931	937	914	920	931	937
height (Hf)	(35.98)	(36.22)	(36.65)	(36.89)	(35.98)	(36.22)	(36.65)	(36.89)
Rear wheelarch	911	917	931	937	931	937	951	957
height (Hr)	(35.87)	(36.10)	(36.65)	(36.89)	(36.65)	(36.89)	(37.44)	(37.68)

*1: Fuel, radiator coolant and engine oil full. Spare tire, jack, hand tools and mats in designated positions.

*2: Verify the vehicle height. If vehicle height is not within \pm 10 mm (0.39 in) of the specification, perform the control unit initialization procedure. Refer to XX-XX, "*****".

Brake Specification

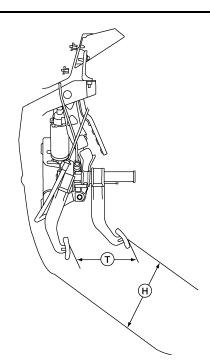
INFOID:000000010176936

	Unit: mm (in)
Rotor outer diameter × thickness	350 x 30 (13.78 x 1.18)
Pad Length × width × thickness	152 x 56.5 x 12.0 (5.98 x 2.22 x 0.47)
Cylinder bore diameter	2 X 50.8 (2.00)
Rotor outer diameter × thickness	320 x 14 (12.60 x 0.55)
Pad Length × width × thickness	114 x 36.5 x 12.0 (4.49 x 1.44 x 0.47)
Cylinder bore diameter	48 (1.89)
Valve model	Electric brake force distribution
Booster model	9/10 inch active booster
	Pad Length × width × thickness Cylinder bore diameter Rotor outer diameter × thickness Pad Length × width × thickness Cylinder bore diameter Valve model

Brake Pedal

INFOID:000000010176935

Unit: mm (in)



ALFIA0149ZZ

Pedal free height (H) with pedal in forward most position	182.3 +10.0/-0 (7.18 +0.39/-0)
Pedal travel (T)	153.3 (6.04)
Stop lamp switch and ASCD cancel switch threaded end to brake pedal bracket gap	0.74 - 1.96 (0.03 - 0.08)

CAUTION:

When equipped with adjustable pedal, the pedal must be in the forward most position (closest to the floor) for pedal height adjustment.

Front Disc Brake

INFOID:000000010176934

Unit: mm (in)

Brake pad	Standard thickness (new)	12.0 (0.47)
Drake pad	Minimum thickness	1.0 (0.04)

	Standard thickness (new)	30 (1.18)
Disc rotor	Minimum thickness	28.5 (1.12)
Discrotor	Maximum uneven wear (measured at 8 positions)	0.015 (0.001)
	Runout limit (with it attached to the vehicle)	0.03 (0.001)

Rear Disc Brake

INFOID:000000010176933

		Unit: mm (in)
Brake pad	Standard thickness (new)	12.0 (0.47)
Brake pau	Minimum thickness	1.0 (0.04)
Disc rotor	Standard thickness (new)	14.0 (0.55)
	Minimum thickness	12.0 (0.47)
	Maximum uneven wear (measured at 8 positions)	0.015 (0.001)
	Runout limit (with it attached to the vehicle)	0.05 (0.002)

FOR USA AND CANADA : Fluids and Lubricants

INFOID:000000010176937

Description		Capacity (Approximate)		
		Metric	US measure	Imp measure
Fuel		105.8 <i>l</i>	28 gal	23-1/4 gal
Engine oil Drain and refill	With oil filter change	6.5 <i>l</i>	6-7/8 qt	5-3/4 qt
	Without oil filter change	6.2 <i>l</i>	6-1/2 qt	5-1/2 qt
Dry engine (engine overhaul)		7.6 l	8 qt	6-3/4 qt
Cooling system	With reservoir at MAX level	14.4 <i>l</i>	15-1/4 qt	12-5/8 qt
Automatic transmission fluid (ATF)		10.6 <i>l</i>	11-1/4 qt	9-3/8 qt
Rear differential gear oil		1.75 <i>l</i>	3-3/4 pt	3-1/8 pt
Transfer fluid		3.0 <i>l</i>	3-1/8 qt	2-5/8 qt
Front differential gear oil		1.6 <i>l</i>	3-3/8 pt	2-7/8 pt
Power steering fluid (PSF)		1.0 <i>l</i>	1-1/8 qt	7/8 qt
Brake fluid		_	—	—
Multi-purpose grease		_	_	—
Windshield washer fluid		4.5 <i>l</i>	4-3/4 qt	4 qt
Air conditioning system refrigerant		$1.08\pm0.05~\text{kg}$	$2.38\pm0.11~\text{lb}$	$2.38\pm0.11~\text{lb}$
Air conditioning system oil		290 m ℓ	9.8 fl oz	10.2 fl oz

FOR MEXICO : Fluids and Lubricants

INFOID:000000010176920

Description		Capacity (Approximate)		
		Metric	US measure	Imp measure
		105.8 <i>l</i>	28 gal	23-1/4 gal
Engine oil	With oil filter change	6.5 l	6-7/8 qt	5-3/4 qt
Drain and refill	Without oil filter change	6.2 l	6-1/2 qt	5-1/2 qt

Description Dry engine (engine overhaul)		Capacity (Approximate)		
		Metric	US measure	Imp measure
		7.6 l	8 qt	6-3/4 qt
Cooling system	With reservoir at MAX level	14.4 l	15-1/4 qt	12-5/8 qt
Automatic transmission fluid (ATF)		10.6 <i>l</i>	11-1/4 qt	9-3/8 qt
Rear differential gear oil		1.75 <i>l</i>	3-3/4 pt	3-1/8 pt
Transfer fluid		3.0 <i>l</i>	3-1/8 qt	2-5/8 qt
Front differential gear oil		1.6 <i>l</i>	3-3/8 pt	2-7/8 pt
Power steering fluid (PSF)		1.0 <i>l</i>	1-1/8 qt	7/8 qt
Brake fluid		_	_	_
Multi-purpose grease		—	—	_
Windshield washer fluid		4.5 <i>l</i>	4-3/4 qt	4 qt
Air conditioning system refrigerant		$1.08\pm0.05~\text{kg}$	$2.38\pm0.11~\text{lb}$	$2.38\pm0.11~\text{lb}$
Air conditioning system oil		290 m ℓ	9.8 fl oz	10.2 fl oz